

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090320\
 Data File : VN063224.D
 Acq On : 3 Sep 2020 16:48
 Operator : JC/MD
 Sample : L3902-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW184S-20200901

Quant Time: Sep 04 04:05:16 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	288234	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	574870	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	559086	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	215332	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	231106	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	
35) Dibromofluoromethane	7.55	113	181859	49.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.62%	
50) Toluene-d8	10.06	98	718333	50.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.20%	
62) 4-Bromofluorobenzene	12.38	95	245451	49.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.86%	

Target Compounds

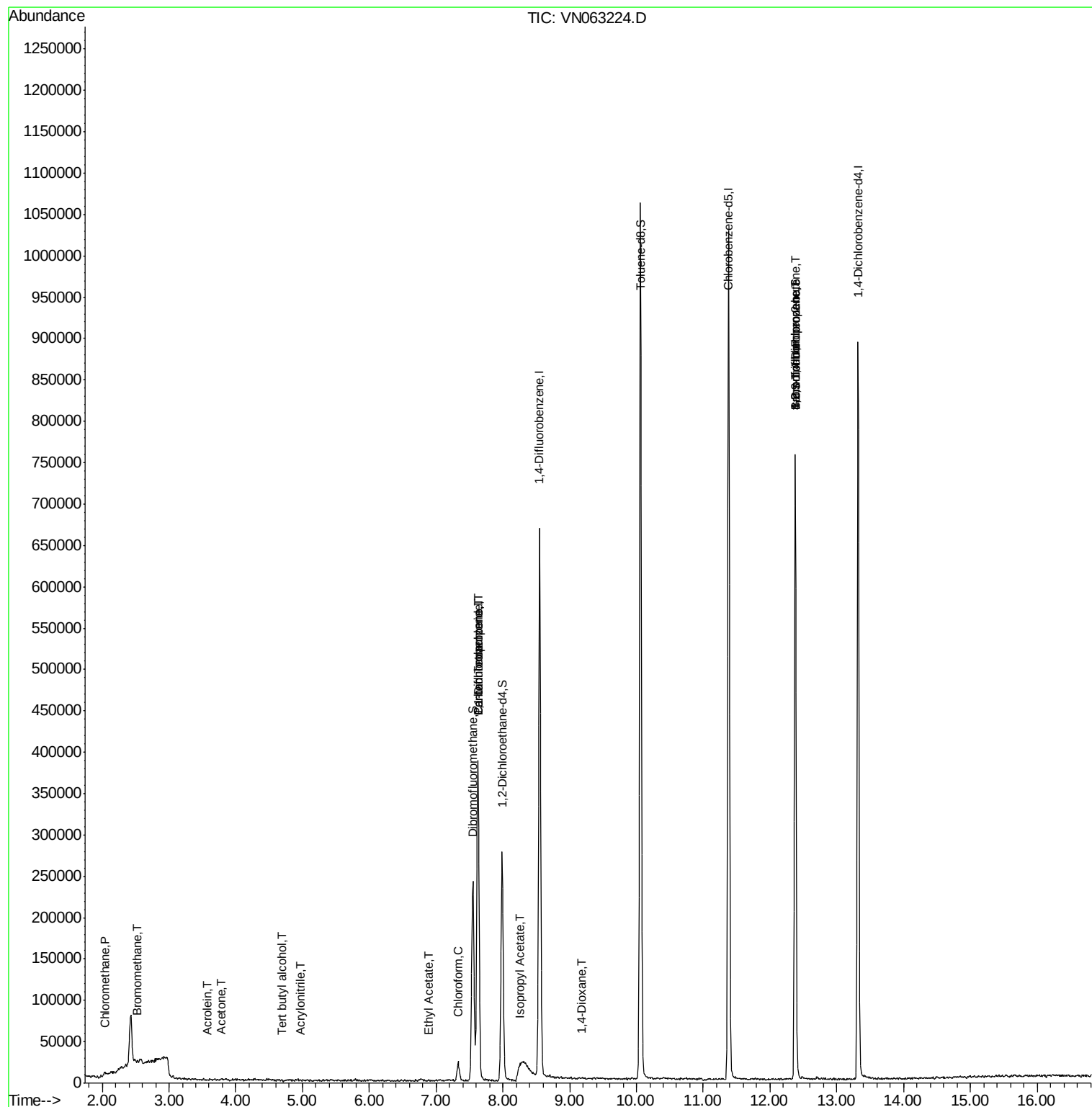
						Qvalue
3) Chloromethane	2.04	50	2165	0.524	ug/l #	88
5) Bromomethane	2.54	94	779	0.203	ug/l #	63
7) Trichlorofluoromethane	2.98	101	65	Below Cal	#	19
11) Tert butyl alcohol	4.69	59	137	0.237	ug/l #	1
13) Acrolein	3.58	56	133	16.335	ug/l #	24
15) Acrylonitrile	4.97	53	29	2.422	ug/l #	1
16) Acetone	3.79	43	734	0.548	ug/l #	72
20) Methylene Chloride	4.50	84	377	Below Cal	#	31
30) Chloroform	7.33	83	20009	2.756	ug/l #	82
31) Cyclohexane	7.63	56	9040	Below Cal	#	55
36) 1,1-Dichloropropene	7.62	75	26725	4.836	ug/l #	52
37) Ethyl Acetate	6.88	43	141	0.407	ug/l #	49
38) Carbon Tetrachloride	7.62	117	32509	5.800	ug/l #	15
43) Isopropyl Acetate	8.26	43	16907	1.876	ug/l #	56
49) 1,4-Dioxane	9.17	88	30	0.477	ug/l #	1
71) Bromoform	12.37	173	1331	0.469	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	142934	33.784	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	142934	81.655	ug/l #	10

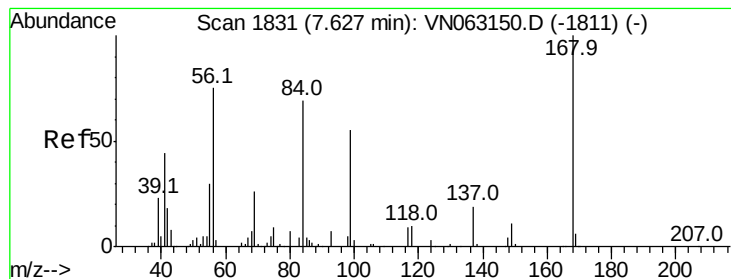
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063224.D

Acq: 3 Sep 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

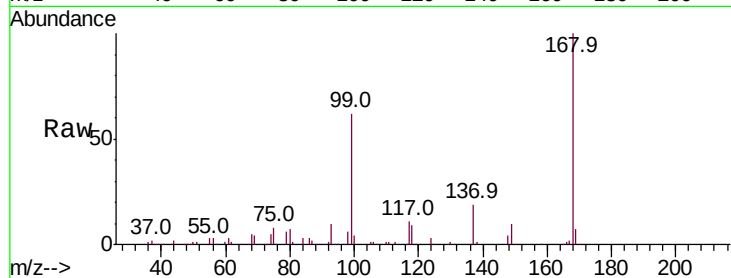
SA-MW184S-20200901

Tot Ion:168 Resp: 288234

Ion Ratio Lower Upper

168 100

99 62.4 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

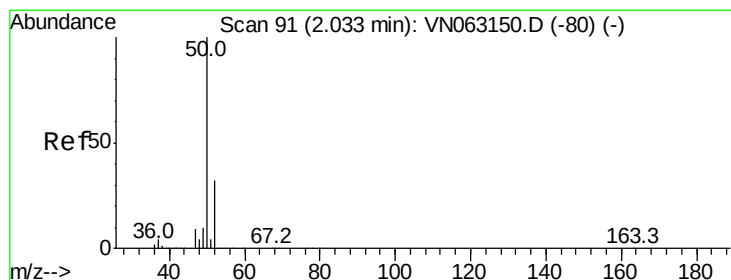
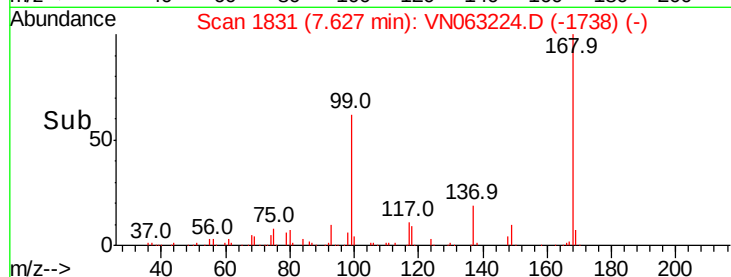
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.524 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.01 min

Lab File: VN063224.D

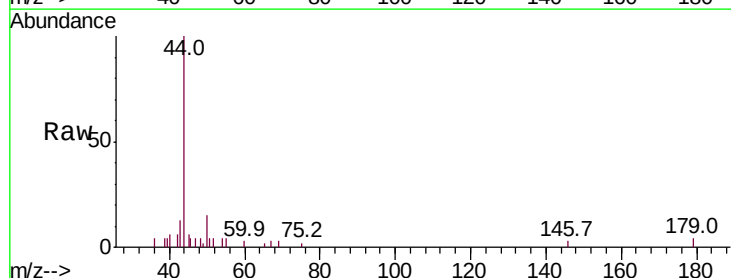
Acq: 3 Sep 2020 16:48

Tgt Ion: 50 Resp: 2165

Ion Ratio Lower Upper

50 100

52 25.6 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1000

800

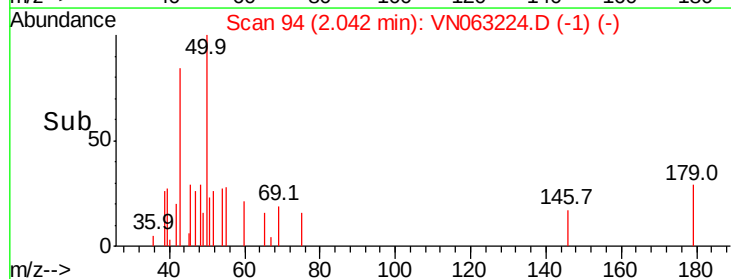
600

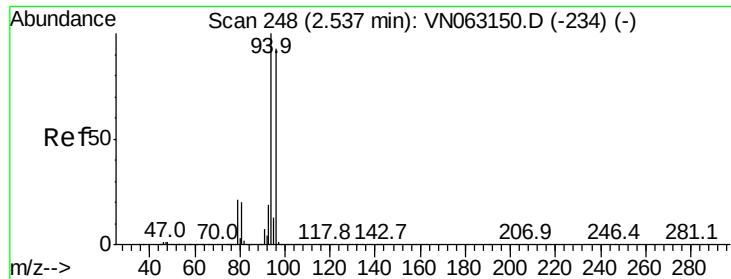
400

200

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: 0.203 ug/l

RT: 2.54 min Scan# 248

Delta R.T. 0.00 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

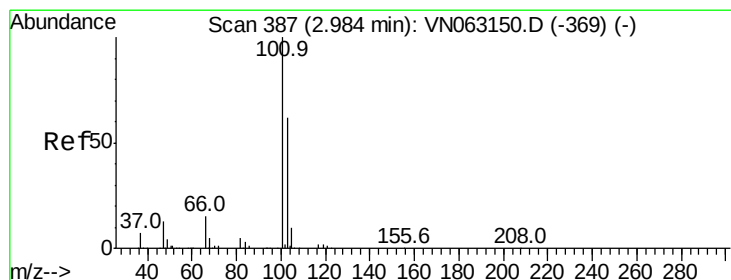
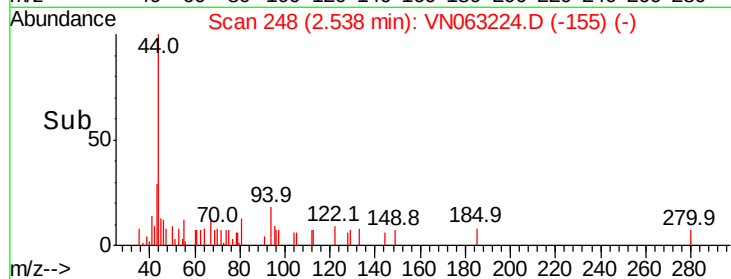
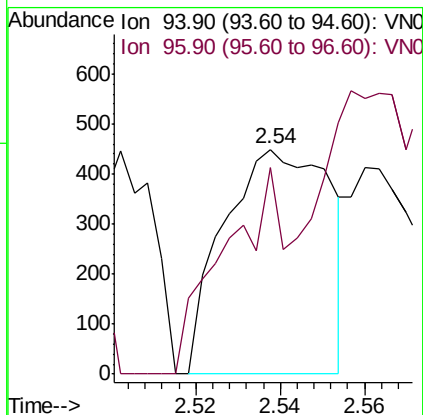
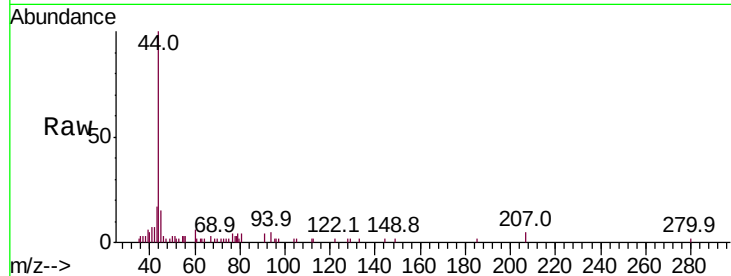
SA-MW184S-20200901

Tot Ion: 94 Resp: 779

Ion Ratio Lower Upper

94 100

96 57.6 74.4 111.6#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.98 min Scan# 386

Delta R.T. -0.00 min

Lab File: VN063224.D

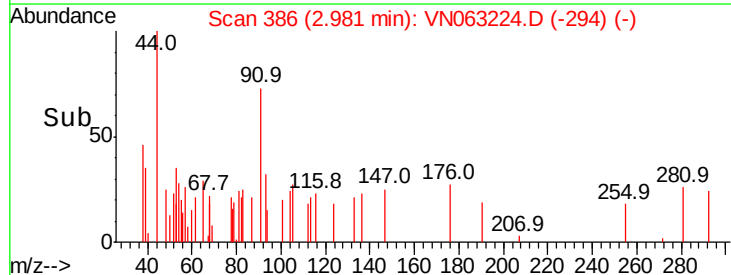
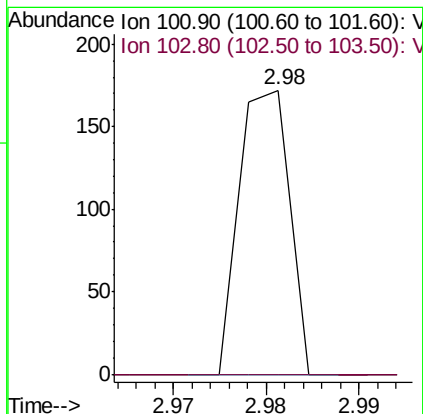
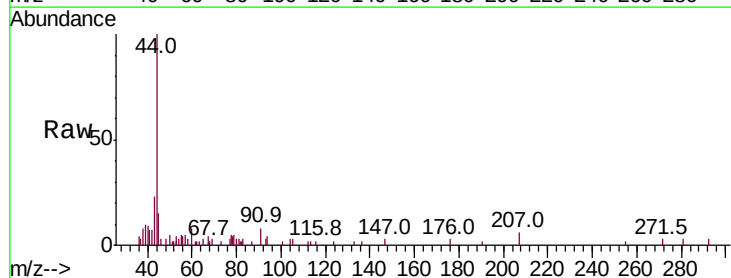
Acq: 3 Sep 2020 16:48

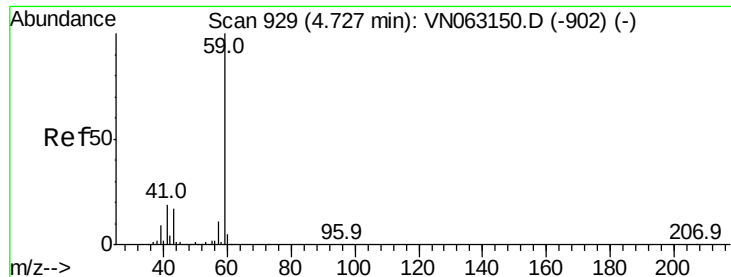
Tgt Ion: 101 Resp: 65

Ion Ratio Lower Upper

101 100

103 0.0 49.7 74.5#



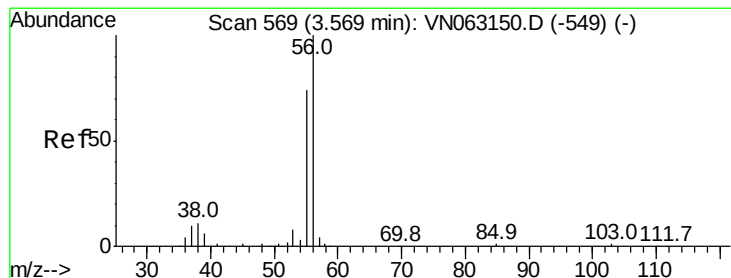
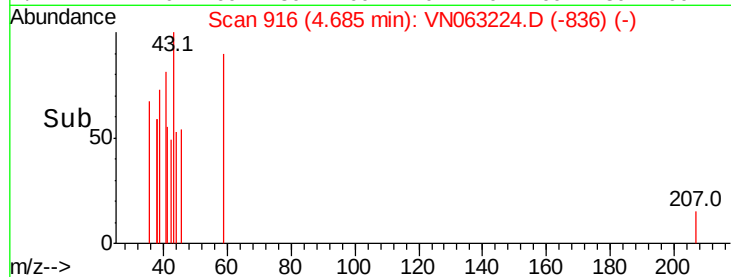
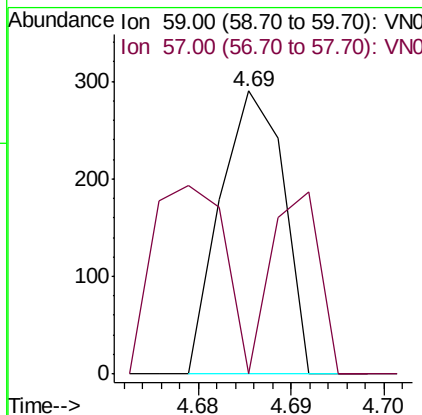
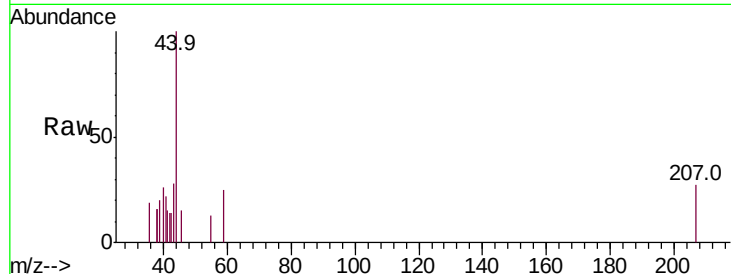


#11

Tert butyl alcohol
 Concen: 0.237 ug/l
 RT: 4.69 min Scan# 916
 Delta R.T. -0.04 min
 Lab File: VN063224.D
 Acq: 3 Sep 2020 16:48

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW184S-20200901

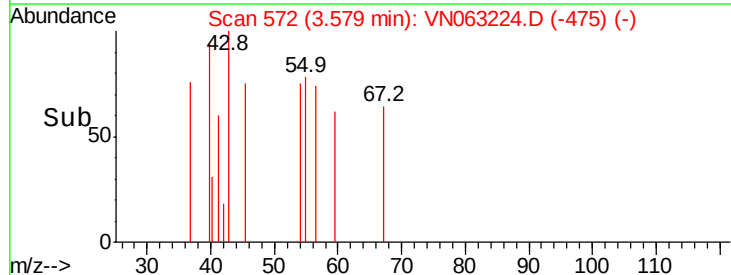
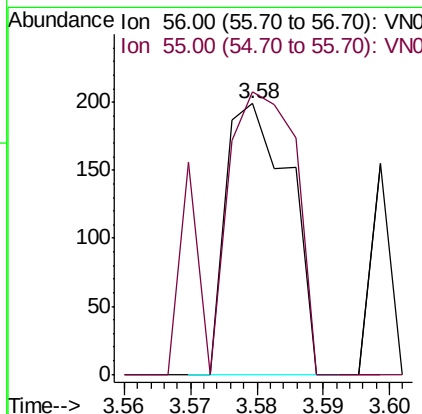
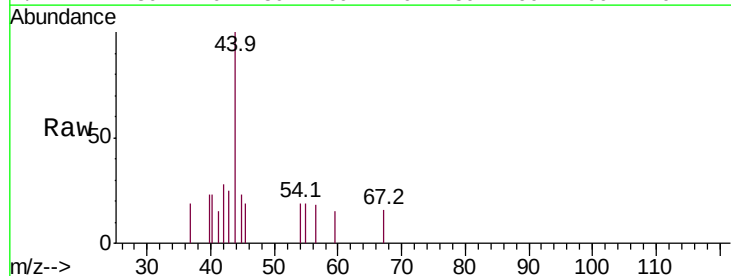
Tot Ion: 59 Resp: 137
 Ion Ratio Lower Upper
 59 100
 57 48.9 8.4 12.6#

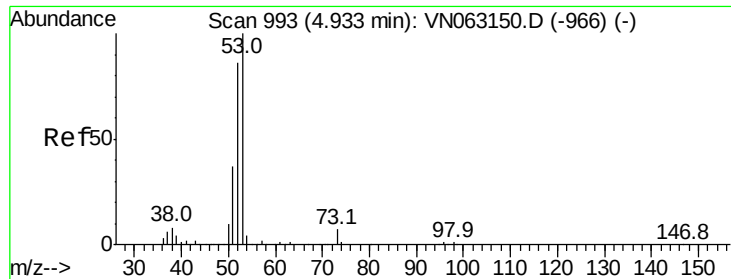


#13

Acrolein
 Concen: 16.335 ug/l
 RT: 3.58 min Scan# 572
 Delta R.T. 0.01 min
 Lab File: VN063224.D
 Acq: 3 Sep 2020 16:48

Tgt Ion: 56 Resp: 133
 Ion Ratio Lower Upper
 56 100
 55 131.6 55.4 83.0#

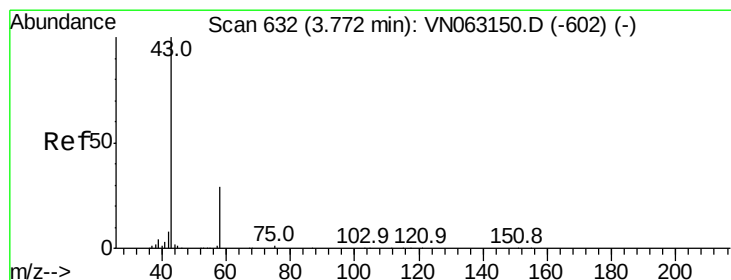
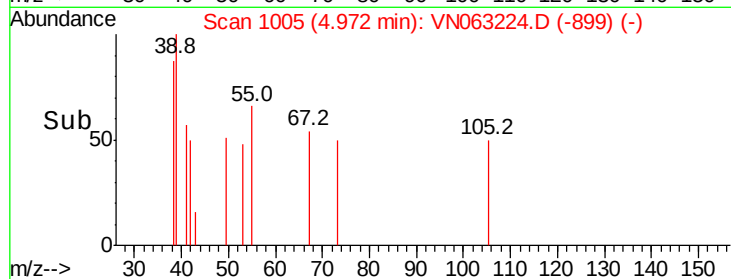
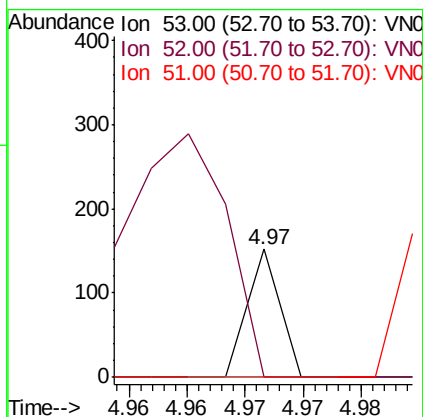
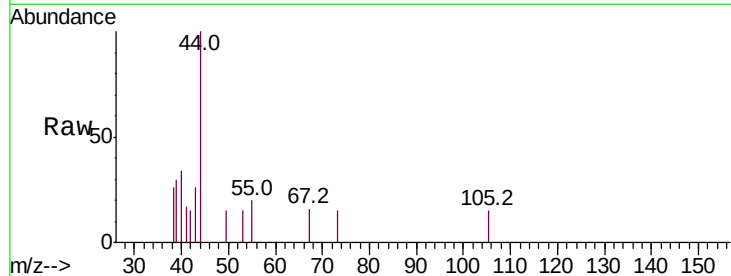




#15
 Acrylonitrile
 Concen: 2.422 ug/l
 RT: 4.97 min Scan# 1005
 Delta R.T. 0.04 min
 Lab File: VN063224.D
 Acq: 3 Sep 2020 16:48

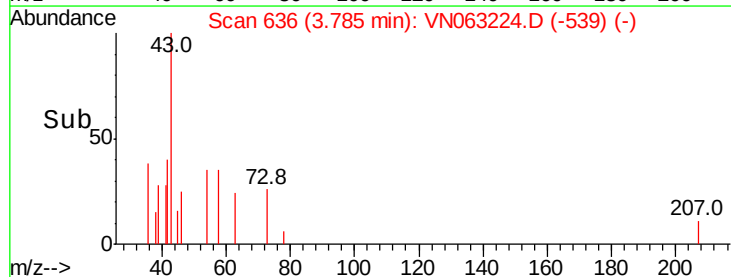
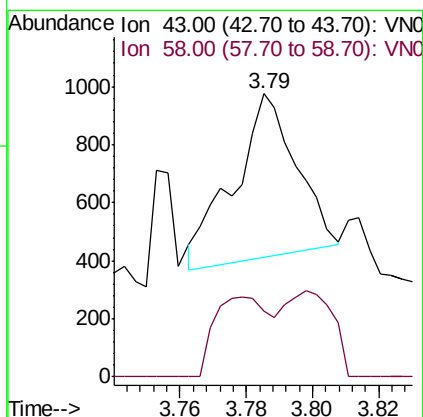
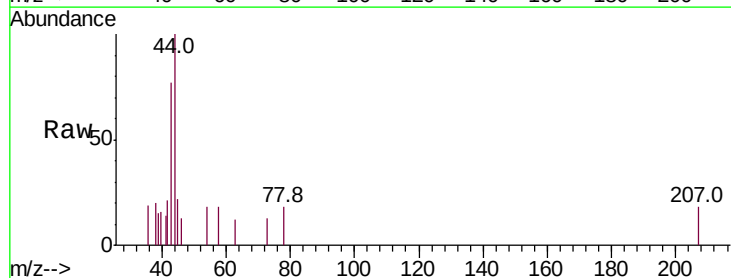
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW184S-20200901

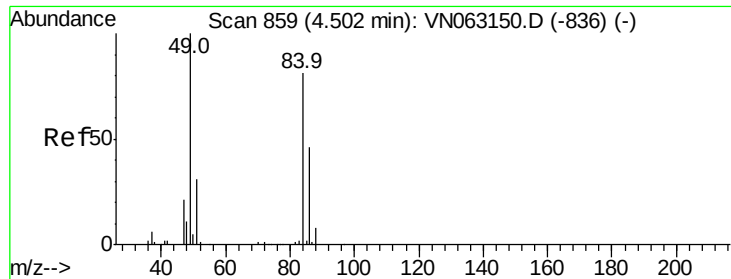
Tot Ion: 53 Resp: 29
 Ion Ratio Lower Upper
 53 100
 52 596.6 67.2 100.8#
 51 0.0 30.2 45.4#



#16
 Acetone
 Concen: 0.548 ug/l
 RT: 3.79 min Scan# 636
 Delta R.T. 0.01 min
 Lab File: VN063224.D
 Acq: 3 Sep 2020 16:48

Tgt Ion: 43 Resp: 734
 Ion Ratio Lower Upper
 43 100
 58 43.7 23.1 34.7#

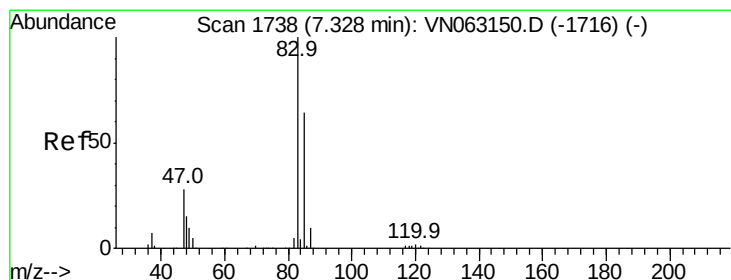
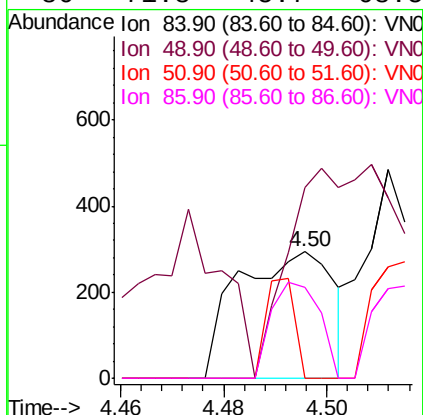
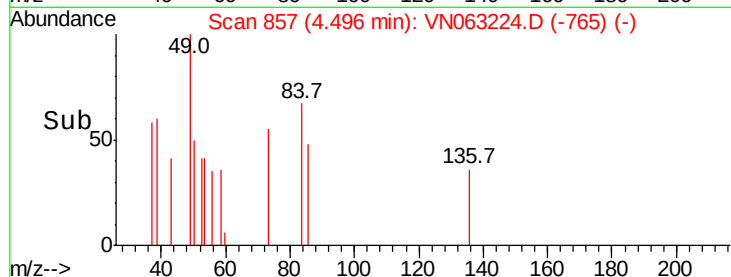
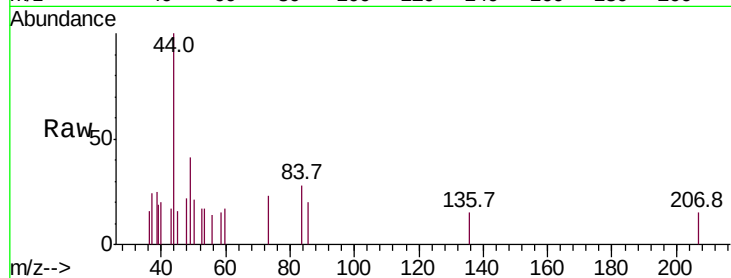




#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN063224.D
Acq: 3 Sep 2020 16:48

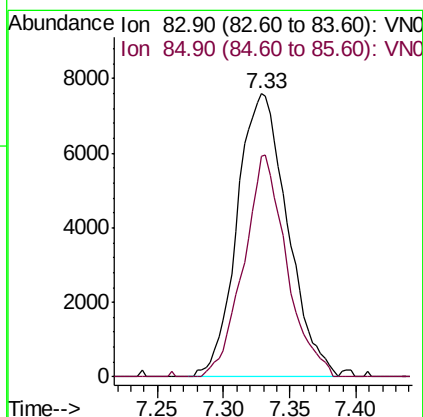
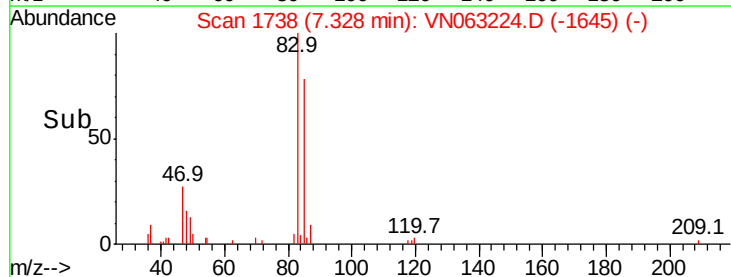
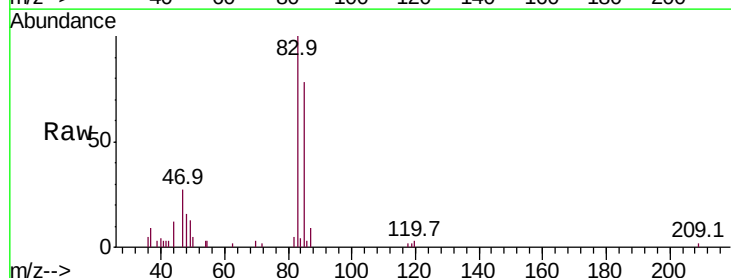
Instrument :
MSVOA_N
ClientSampleId :
SA-MW184S-20200901

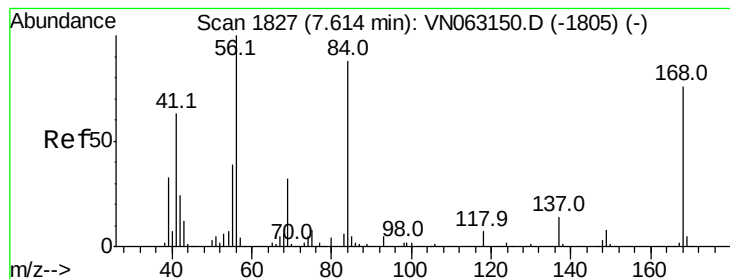
Tot Ion: 84 Resp: 377
Ion Ratio Lower Upper
84 100
49 16.7 98.4 147.6#
51 0.0 30.4 45.6#
86 71.8 45.7 68.5#



#30
Chloroform
Concen: 2.756 ug/l
RT: 7.33 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN063224.D
Acq: 3 Sep 2020 16:48

Tgt Ion: 83 Resp: 20009
Ion Ratio Lower Upper
83 100
85 77.9 51.0 76.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184S-20200901

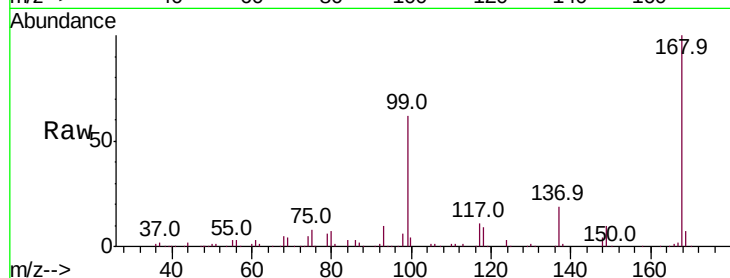
Tot Ion: 56 Resp: 9040

Ion Ratio Lower Upper

56 100

69 108.4 25.4 38.0#

84 98.3 70.2 105.4

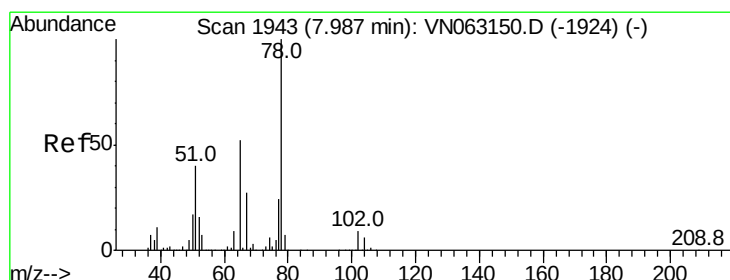
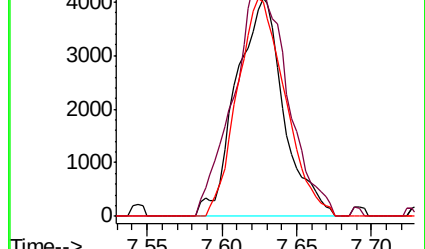
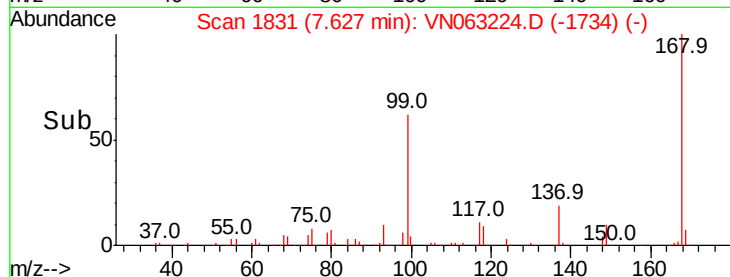


Abundance Ion 56.00 (55.70 to 56.70): VN063224.D (-1831) (-)

Ion 69.00 (68.70 to 69.70): VN063224.D (-1831) (-)

Ion 84.00 (83.70 to 84.70): VN063224.D (-1831) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 49.049 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063224.D

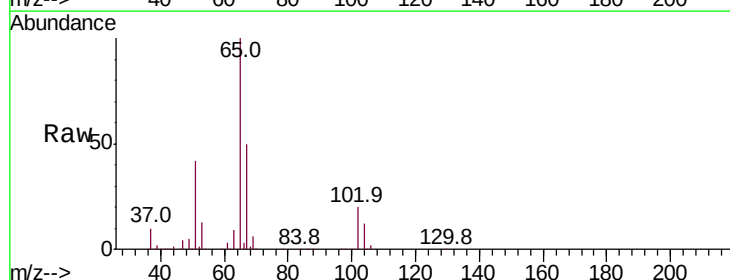
Acq: 3 Sep 2020 16:48

Tgt Ion: 65 Resp: 231106

Ion Ratio Lower Upper

65 100

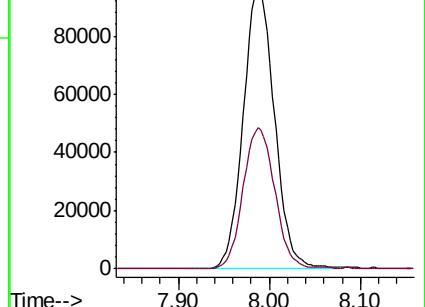
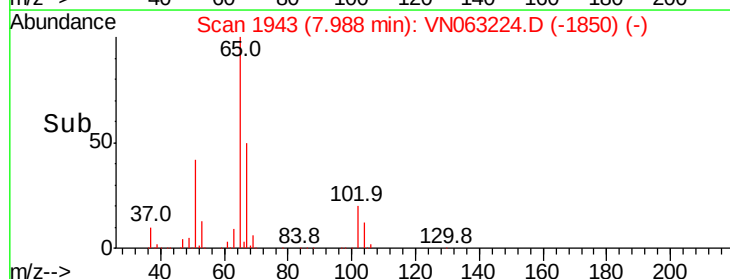
67 50.7 0.0 104.4

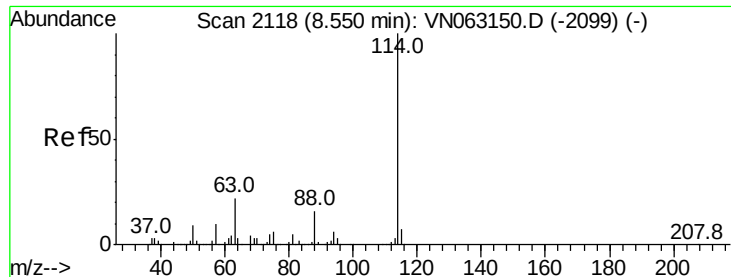


Abundance Ion 64.90 (64.60 to 65.60): VN063224.D (-1943) (-)

Ion 66.90 (66.60 to 67.60): VN063224.D (-1943) (-)

Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

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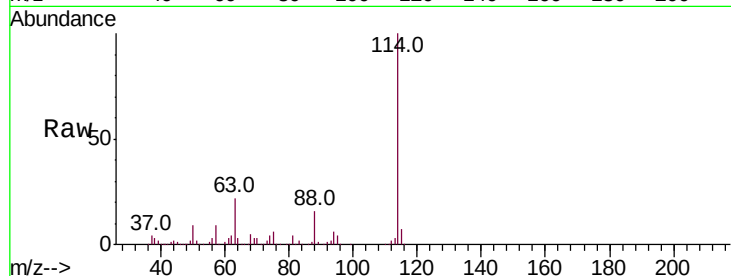
Tot Ion:114 Resp: 574870

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.0

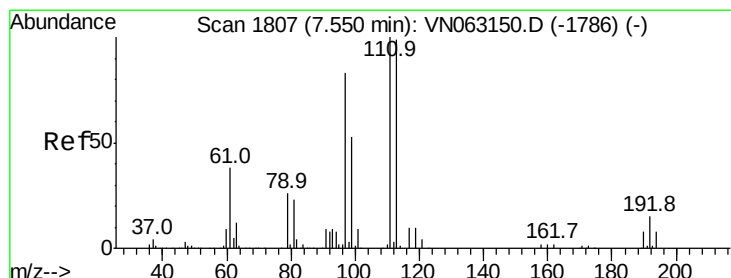
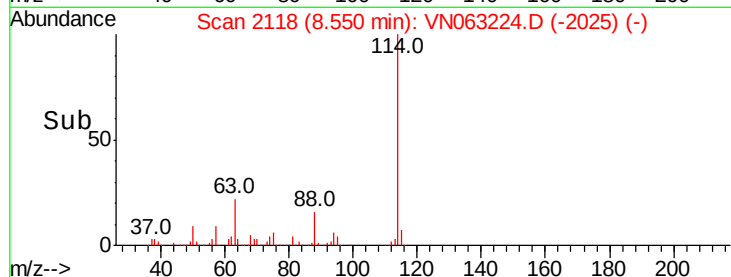
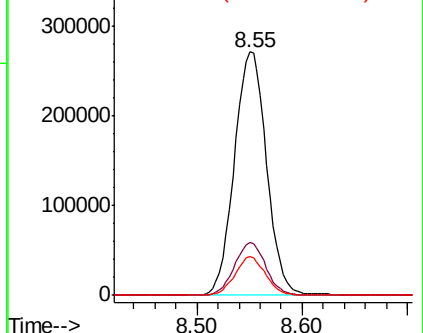
88 16.0 0.0 31.6



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: 49.310 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

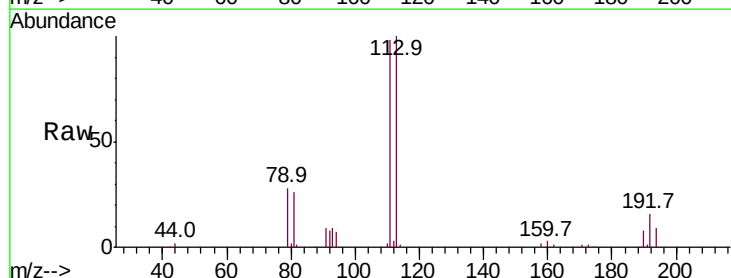
Tgt Ion:113 Resp: 181859

Ion Ratio Lower Upper

113 100

111 101.9 80.7 121.1

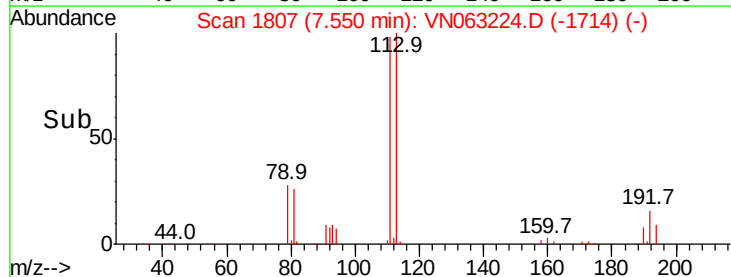
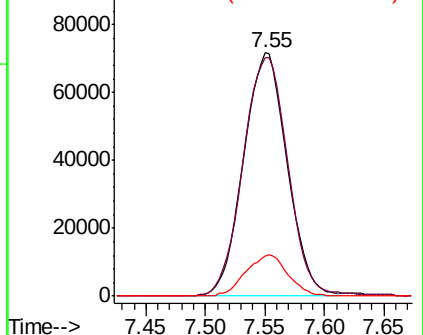
192 16.4 12.6 19.0

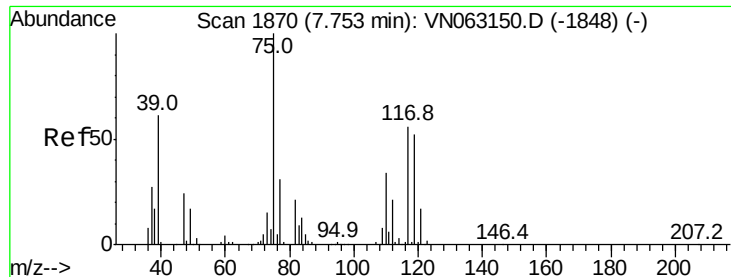


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.836 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184S-20200901

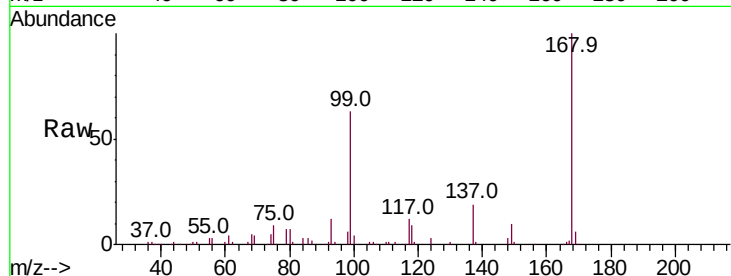
Tot Ion: 75 Resp: 26725

Ion Ratio Lower Upper

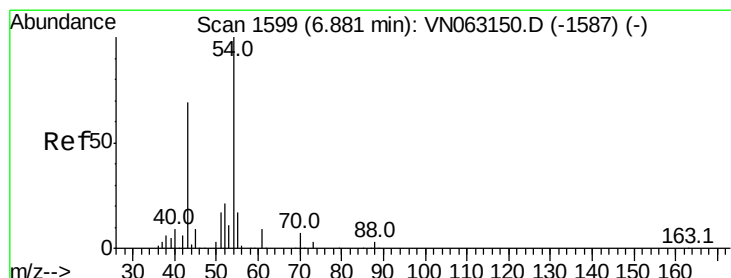
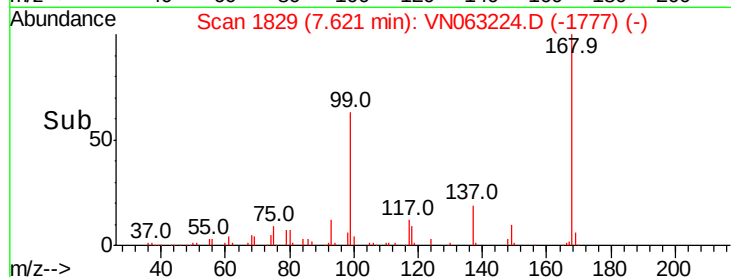
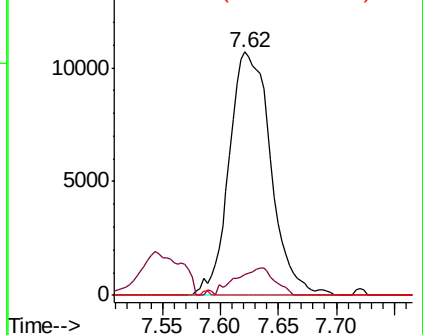
75 100

110 10.8 16.6 49.8#

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): VNO
Ion 76.90 (76.60 to 77.60): VNO



#37

Ethyl Acetate

Concen: 0.407 ug/l

RT: 6.88 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

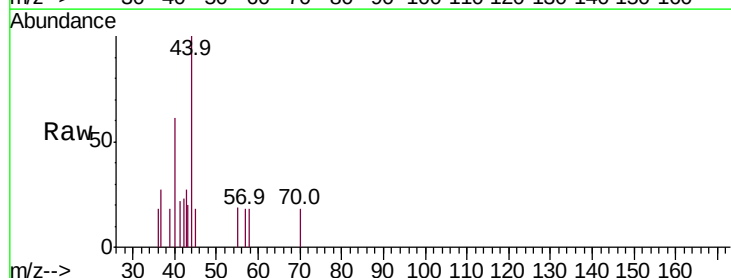
Tgt Ion: 43 Resp: 141

Ion Ratio Lower Upper

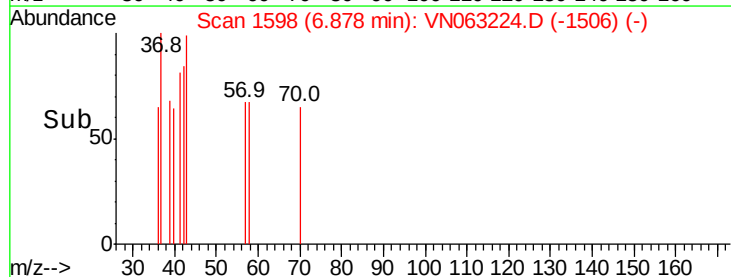
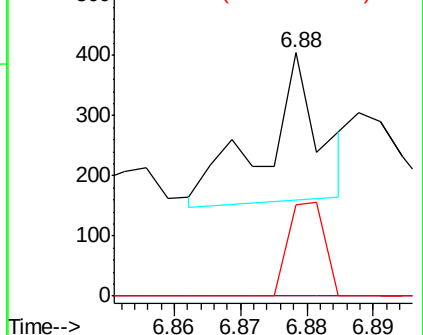
43 100

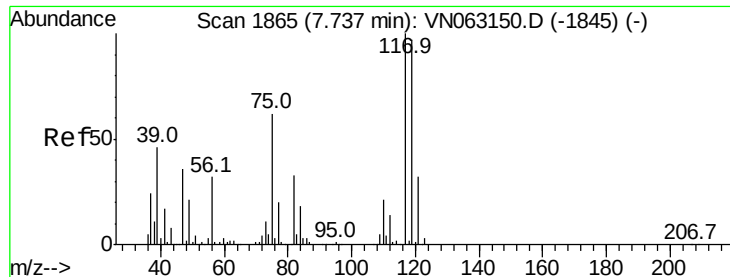
61 0.0 10.2 15.4#

70 41.8 3.0 4.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 70.00 (69.70 to 70.70): VNO





#38

Carbon Tetrachloride

Concen: 5.800 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.12 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184S-20200901

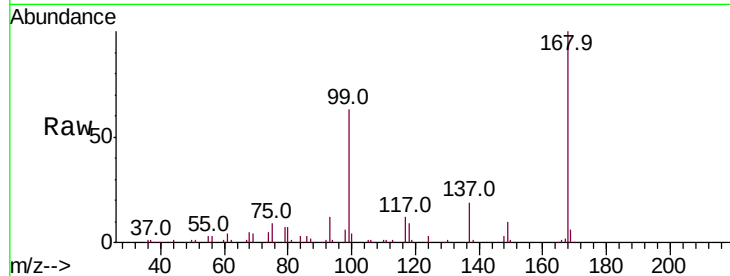
Tot Ion:117 Resp: 32509

Ion Ratio Lower Upper

117 100

119 4.3 77.2 115.8#

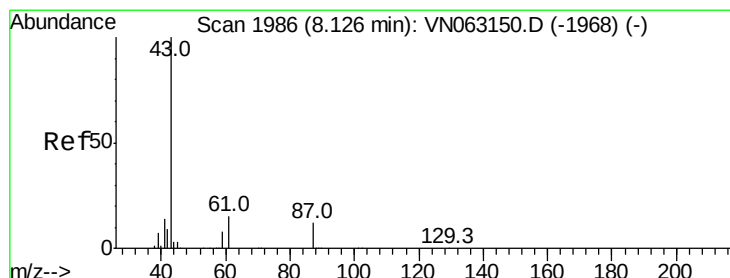
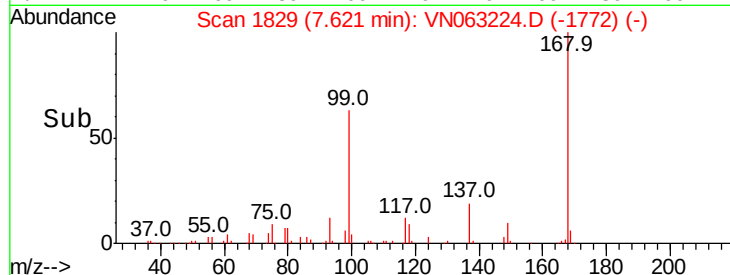
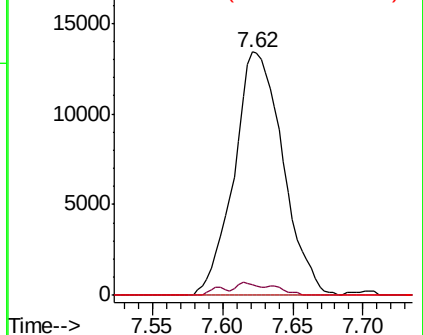
121 0.0 25.6 38.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.876 ug/l

RT: 8.26 min Scan# 2027

Delta R.T. 0.13 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

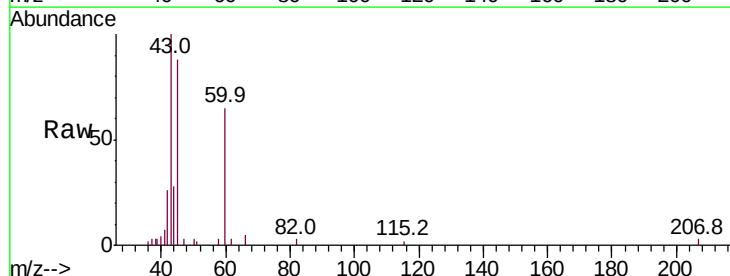
Tgt Ion: 43 Resp: 16907

Ion Ratio Lower Upper

43 100

61 0.0 20.2 30.4#

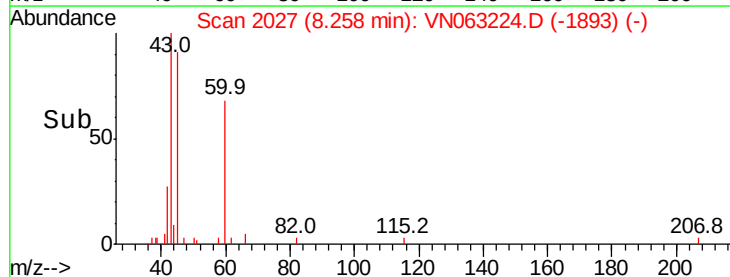
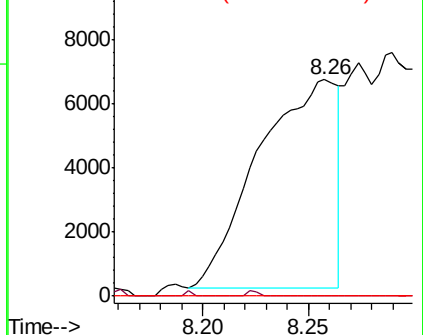
87 0.0 9.8 14.6#

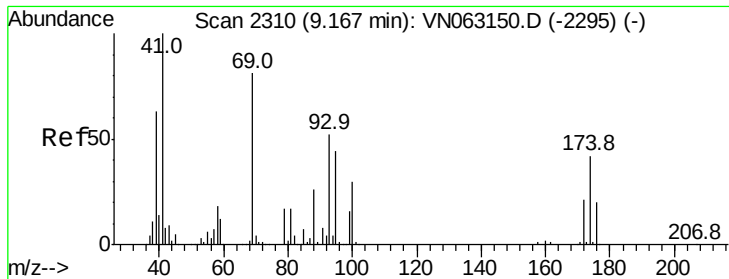


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

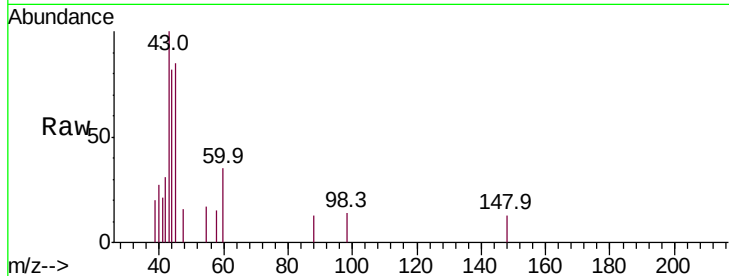




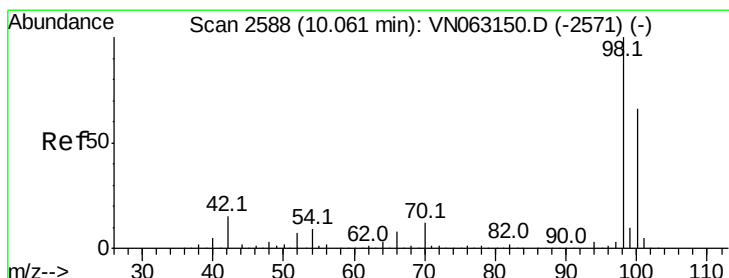
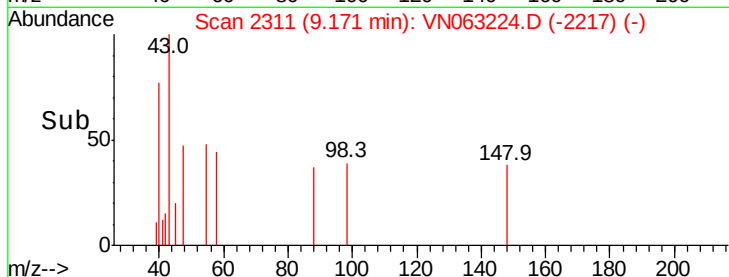
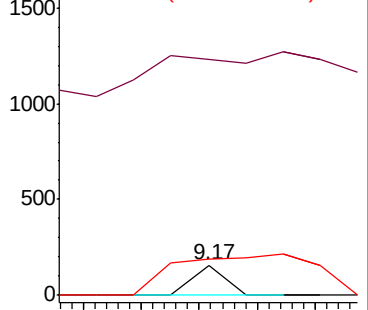
#49
1,4-Dioxane
Concen: 0.477 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN063224.D
Acq: 3 Sep 2020 16:48

Instrument :
MSVOA_N
ClientSampleId :
SA-MW184S-20200901

Tot Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 430.0 28.6 42.8#
58 593.3 53.2 79.8#

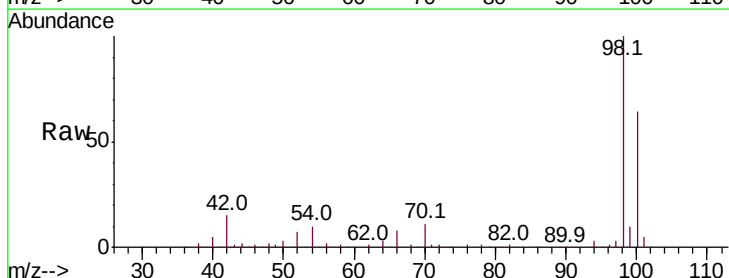


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

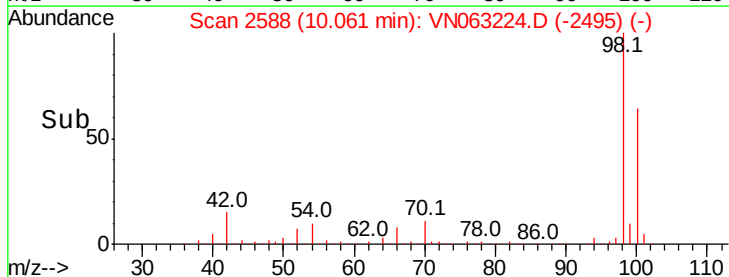
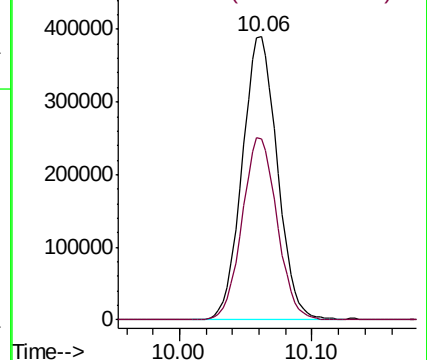


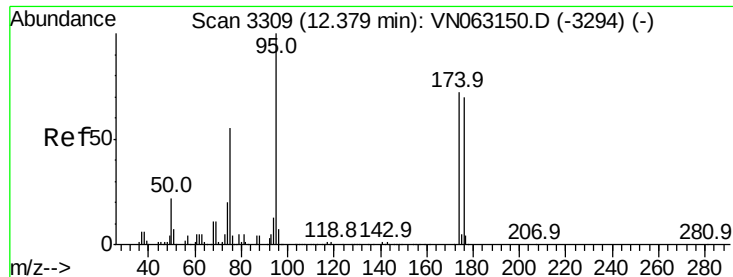
#50
Toluene-d8
Concen: 50.603 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063224.D
Acq: 3 Sep 2020 16:48

Tgt Ion: 98 Resp: 718333
Ion Ratio Lower Upper
98 100
100 63.9 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: 49.430 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184S-20200901

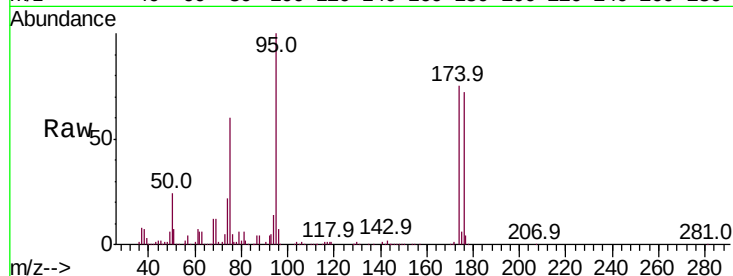
Tot Ion: 95 Resp: 245451

Ion Ratio Lower Upper

95 100

174 74.7 0.0 143.8

176 72.9 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

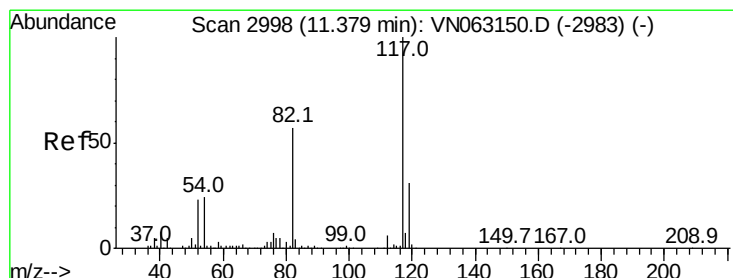
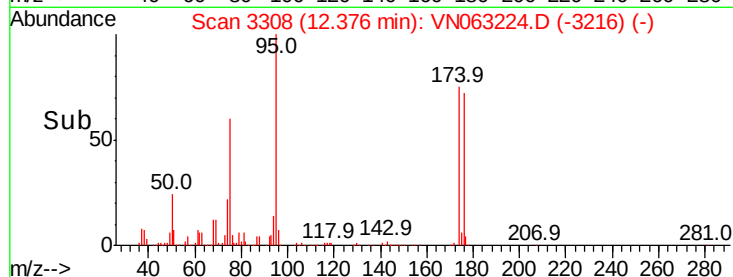
150000

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

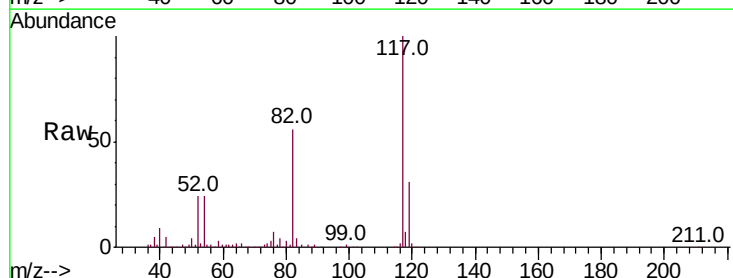
Tgt Ion: 117 Resp: 559086

Ion Ratio Lower Upper

117 100

82 55.5 45.4 68.0

119 30.8 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

400000

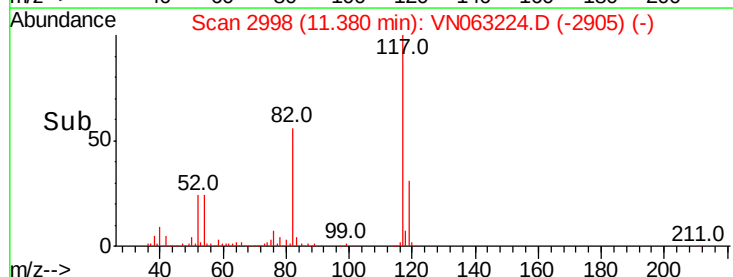
300000

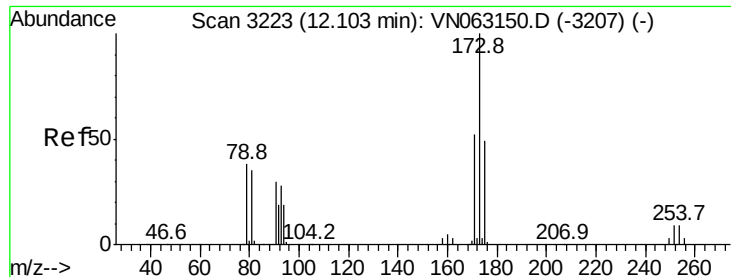
200000

100000

0

Time-->





#71

Bromoform

Concen: 0.469 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

SA-MW184S-20200901

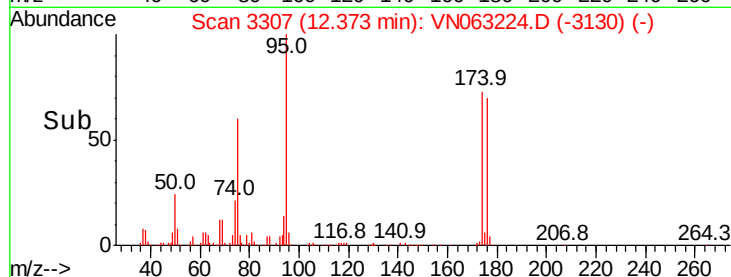
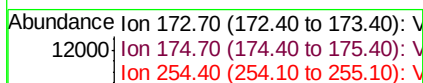
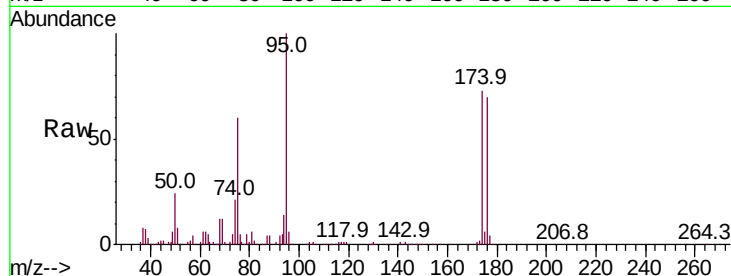
Tot Ion:173 Resp: 1331

Ion Ratio Lower Upper

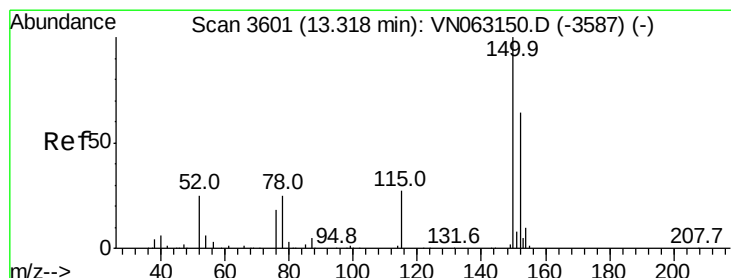
173 100

175 941.8 24.6 73.8#

254 0.0 0.0 0.0



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

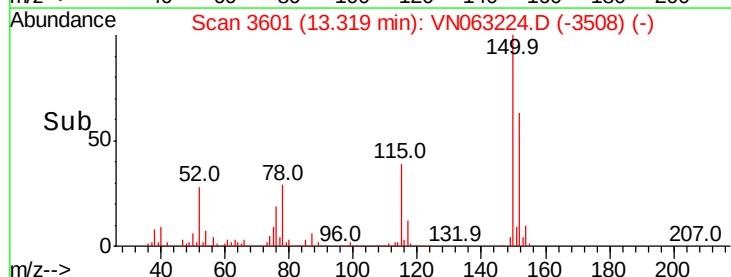
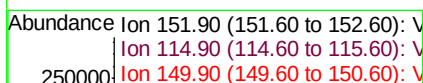
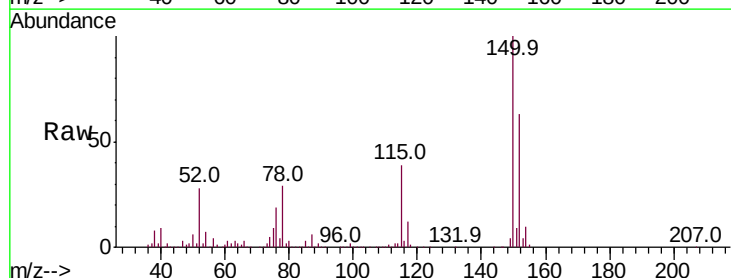
Tgt Ion:152 Resp: 215332

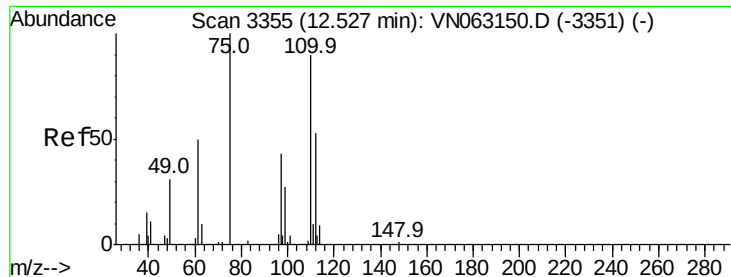
Ion Ratio Lower Upper

152 100

115 61.2 32.0 96.2

150 159.1 0.0 353.0





#76

1,2,3-Trichloropropane

Concen: 33.784 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

Instrument :

MSVOA_N

ClientSampleId :

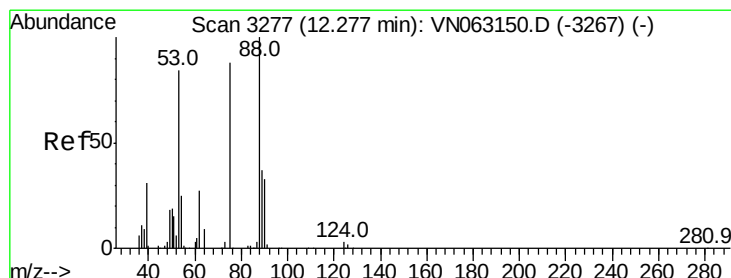
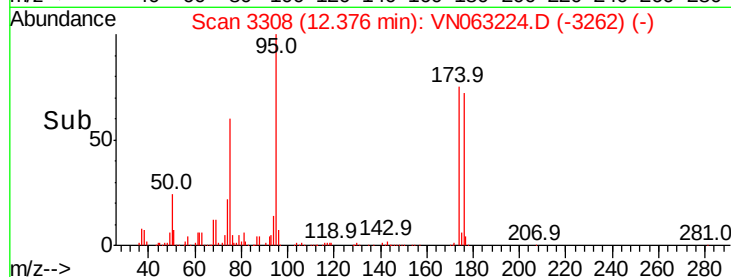
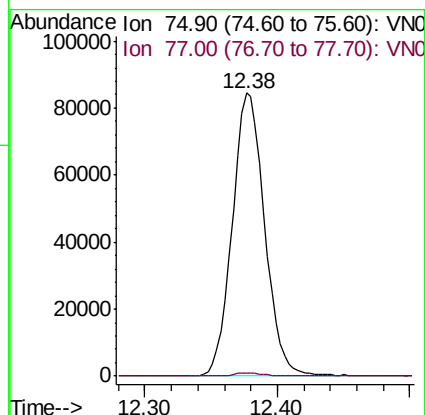
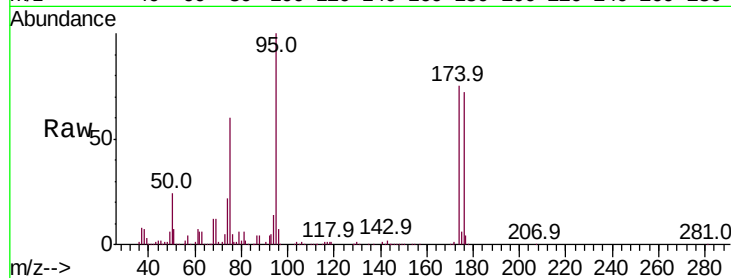
SA-MW184S-20200901

Tot Ion: 75 Resp: 142934

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.655 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063224.D

Acq: 3 Sep 2020 16:48

Tgt Ion: 75 Resp: 142934

Ion Ratio Lower Upper

75 100

53 0.1 78.7 118.1#

89 0.0 35.3 52.9#

