

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090320\
 Data File : VN063229.D
 Acq On : 3 Sep 2020 18:48
 Operator : JC/MD
 Sample : L3902-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-MW131D-20200901

Quant Time: Sep 04 04:06:04 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	294558	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	563986	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	565261	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	216176	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	236235	49.06	ug/l	0.00
Spiked Amount						
			Recovery	=	98.12%	
35) Dibromofluoromethane	7.55	113	180105	49.78	ug/l	0.00
Spiked Amount						
			Recovery	=	99.56%	
50) Toluene-d8	10.06	98	727648	52.25	ug/l	0.00
Spiked Amount						
			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	12.38	95	247490	50.80	ug/l	0.00
Spiked Amount						
			Recovery	=	101.60%	

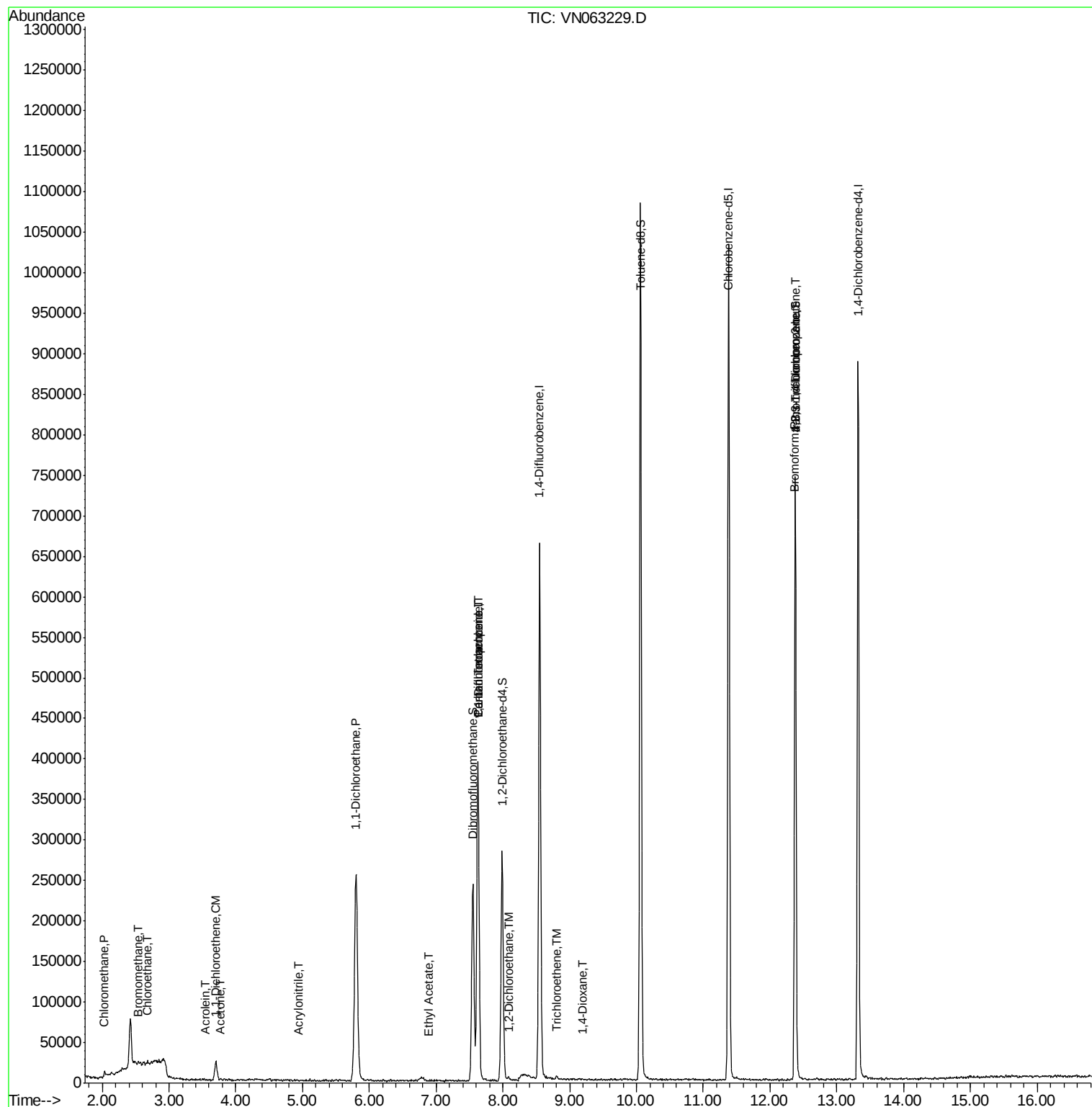
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2177	0.515	ug/l	99
5) Bromomethane	2.54	94	995	0.253	ug/l #	3
6) Chloroethane	2.68	64	3371	0.909	ug/l #	86
7) Trichlorofluoromethane	2.81	101	69	Below Cal	#	19
12) 1,1-Dichloroethene	3.70	96	11466	3.548	ug/l	89
13) Acrolein	3.55	56	73	16.073	ug/l #	72
15) Acrylonitrile	4.93	53	76	2.449	ug/l #	17
16) Acetone	3.78	43	422	0.308	ug/l #	1
20) Methylene Chloride	4.51	84	599	Below Cal	#	20
24) 1,1-Dichloroethane	5.80	63	383430	54.076	ug/l	99
31) Cyclohexane	7.63	56	8807	Below Cal	#	62
36) 1,1-Dichloropropene	7.63	75	27061	4.991	ug/l #	51
37) Ethyl Acetate	6.89	43	203	0.420	ug/l #	67
38) Carbon Tetrachloride	7.62	117	32412	5.895	ug/l #	14
42) 1,2-Dichloroethane	8.09	62	1568	0.263	ug/l	95
44) Trichloroethene	8.80	130	1156	0.299	ug/l	73
49) 1,4-Dioxane	9.18	88	423	6.861	ug/l #	42
71) Bromoform	12.36	173	738	0.257	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	140644	33.113	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	140644	80.033	ug/l #	10

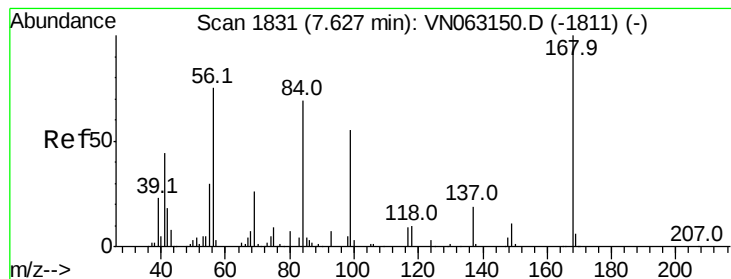
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

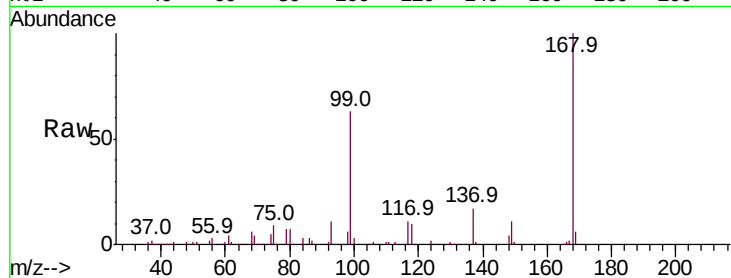
SA-MW131D-20200901

Tot Ion:168 Resp: 294558

Ion Ratio Lower Upper

168 100

99 63.4 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN063150.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063150.D (-1811) (-)

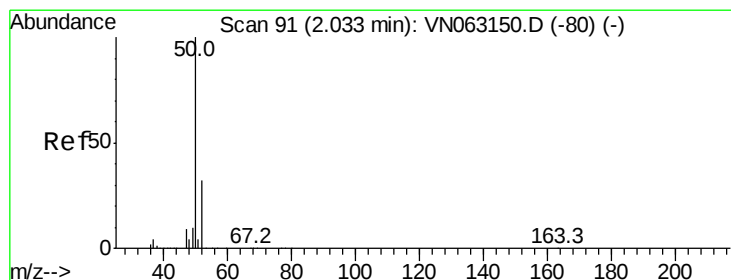
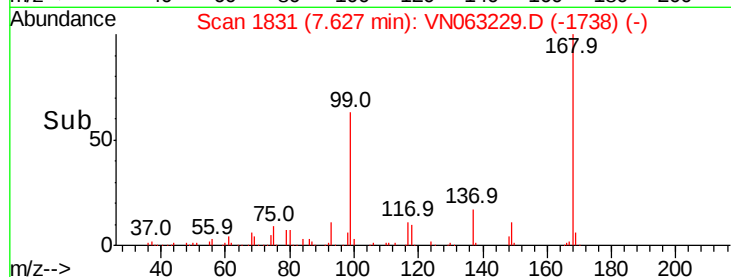
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.515 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063229.D

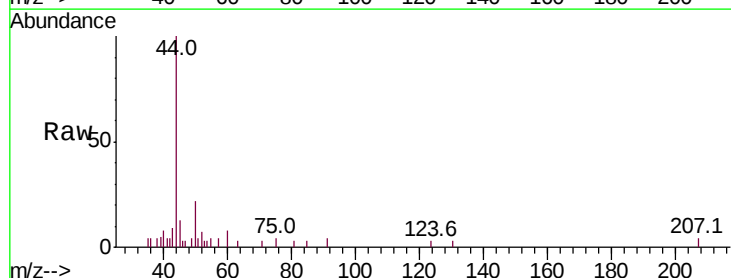
Acq: 3 Sep 2020 18:48

Tgt Ion: 50 Resp: 2177

Ion Ratio Lower Upper

50 100

52 31.6 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VN063150.D (-80) (-)

Ion 51.90 (51.60 to 52.60): VN063150.D (-80) (-)

2.04

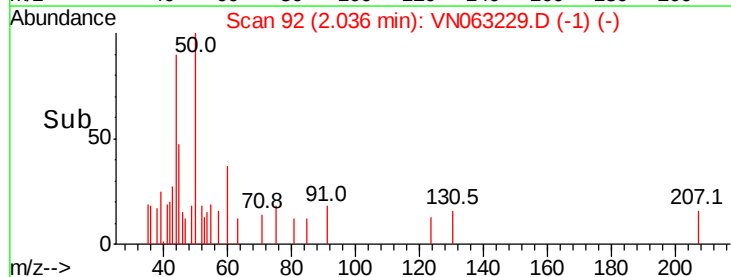
1500

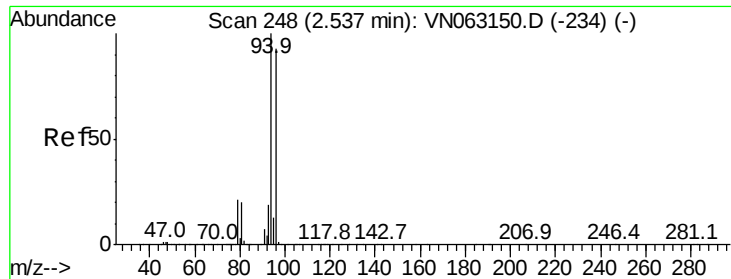
1000

500

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.253 ug/l

RT: 2.54 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

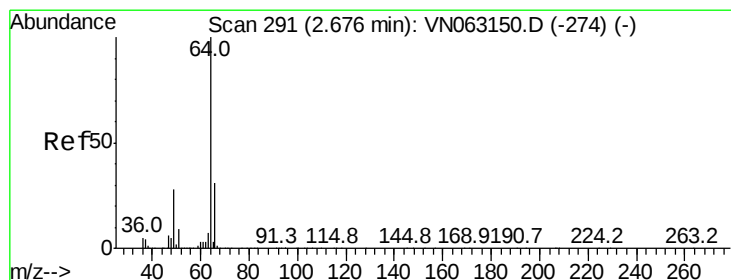
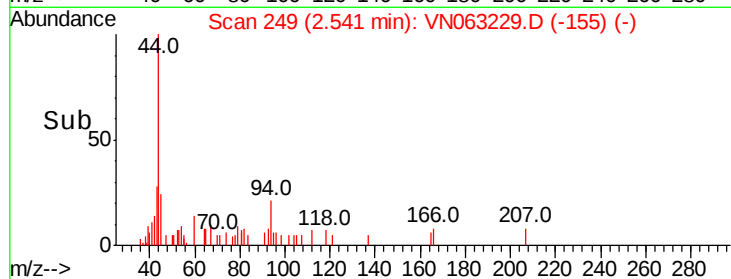
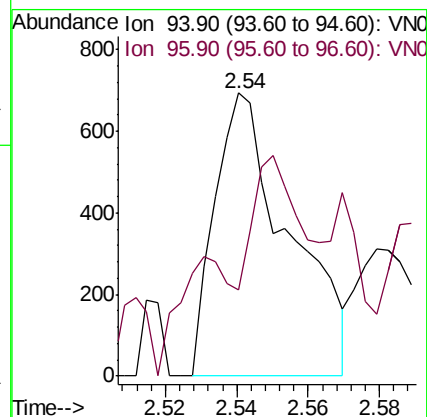
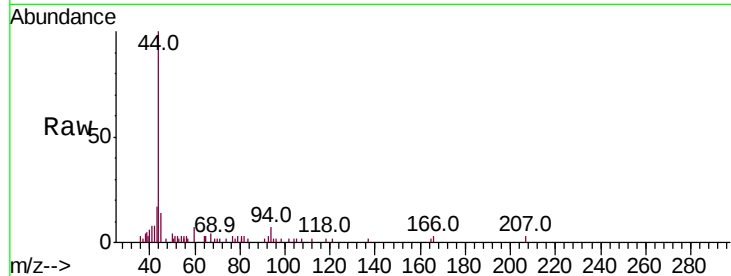
SA-MW131D-20200901

Tot Ion: 94 Resp: 995

Ion Ratio Lower Upper

94 100

96 0.0 74.4 111.6#



#6

Chloroethane

Concen: 0.909 ug/l

RT: 2.68 min Scan# 292

Delta R.T. 0.00 min

Lab File: VN063229.D

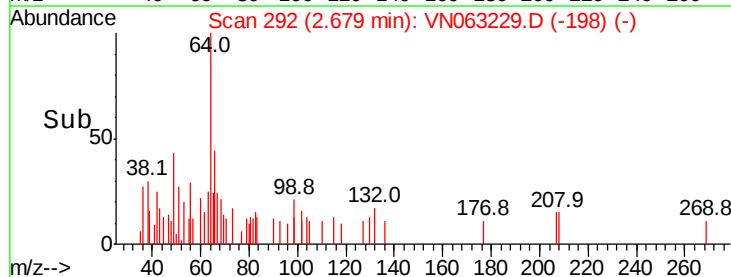
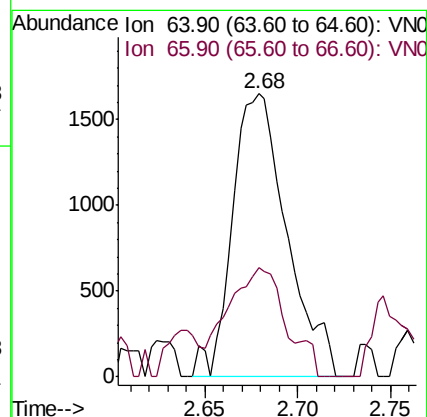
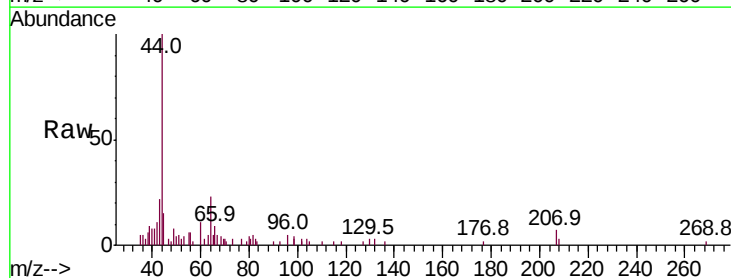
Acq: 3 Sep 2020 18:48

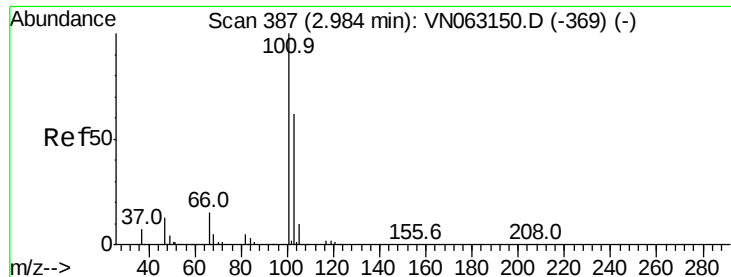
Tgt Ion: 64 Resp: 3371

Ion Ratio Lower Upper

64 100

66 38.4 24.7 37.1#





#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.81 min Scan# 334

Delta R.T. -0.17 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

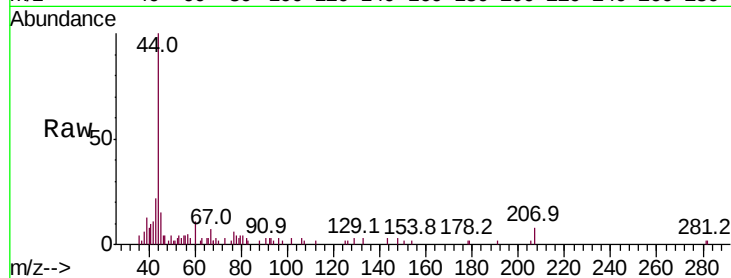
SA-MW131D-20200901

Tot Ion:101 Resp: 69

Ion Ratio Lower Upper

101 100

103 0.0 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

2.81

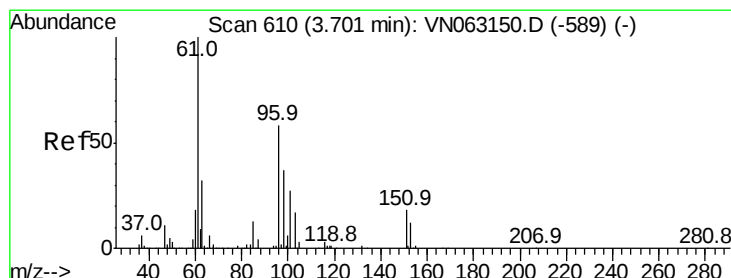
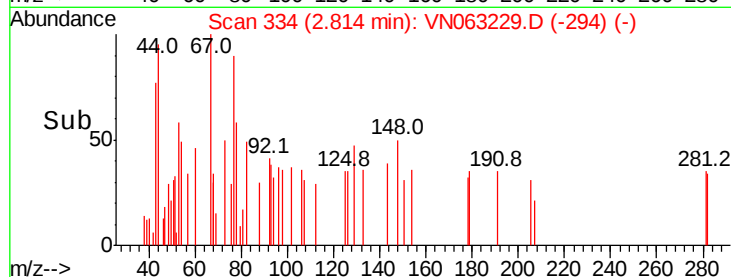
150

100

50

0

Time--> 2.80 2.81 2.82



#12

1,1-Dichloroethene

Concen: 3.548 ug/l

RT: 3.70 min Scan# 610

Delta R.T. -0.00 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

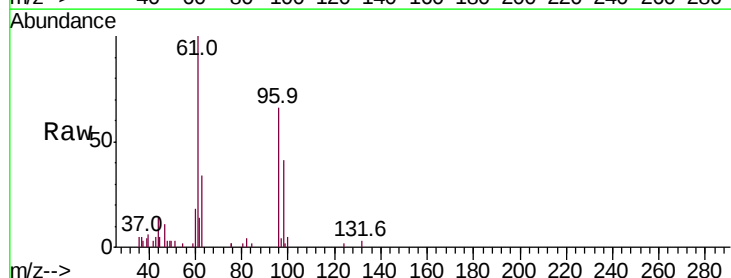
Tgt Ion: 96 Resp: 11466

Ion Ratio Lower Upper

96 100

61 152.2 137.4 206.2

98 61.8 50.5 75.7



Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

10000

8000

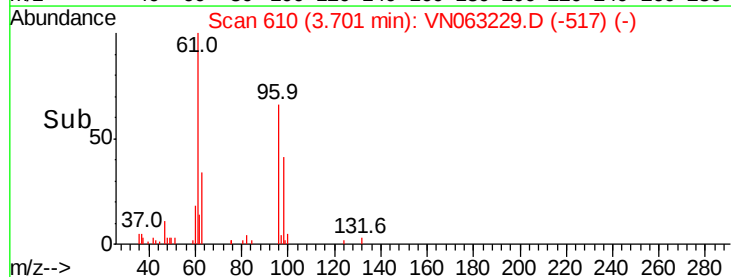
6000

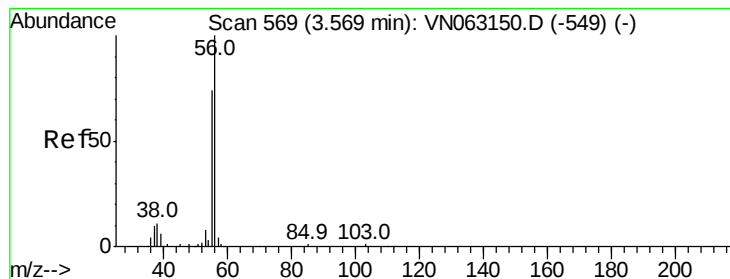
4000

2000

0

Time--> 3.65 3.70 3.75





#13

Acrolein

Concen: 16.073 ug/l

RT: 3.55 min Scan# 563

Delta R.T. -0.02 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

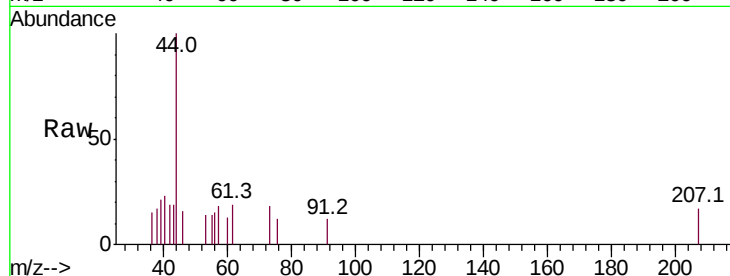
SA-MW131D-20200901

Tot Ion: 56 Resp: 73

Ion Ratio Lower Upper

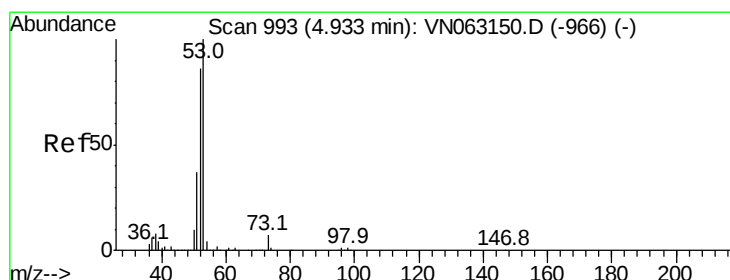
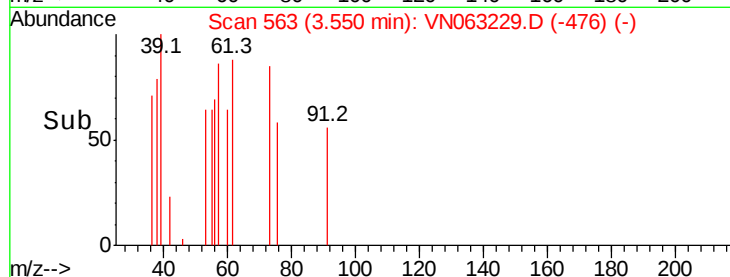
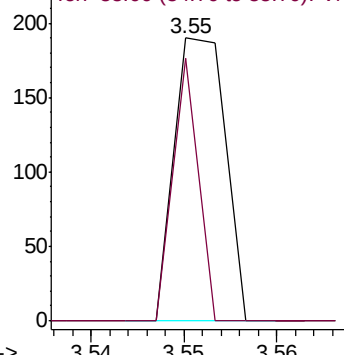
56 100

55 46.6 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acrylonitrile

Concen: 2.449 ug/l

RT: 4.93 min Scan# 992

Delta R.T. -0.00 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

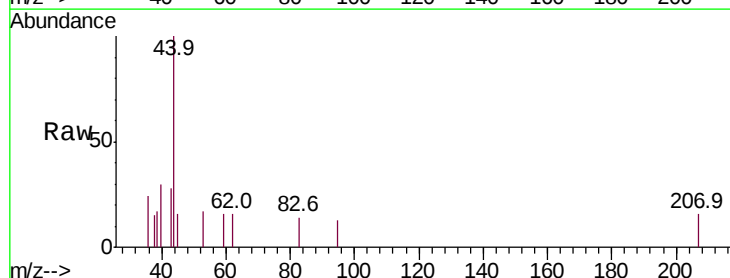
Tgt Ion: 53 Resp: 76

Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

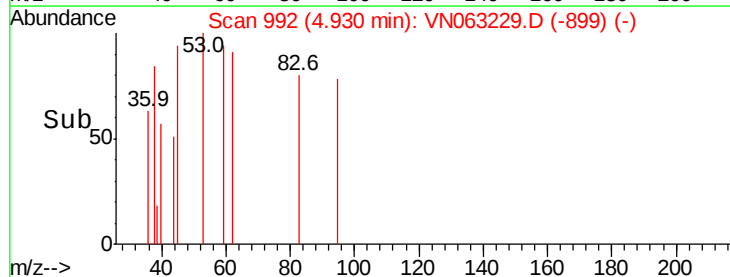
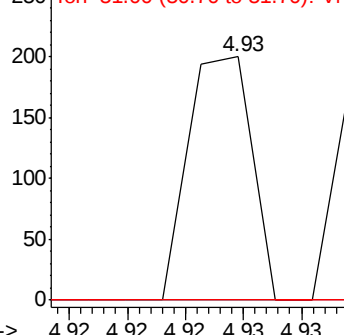
51 0.0 30.2 45.4#

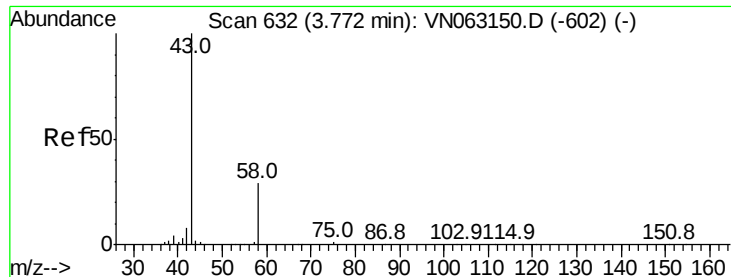


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#16

Acetone

Concen: 0.308 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

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ClientSampleId :

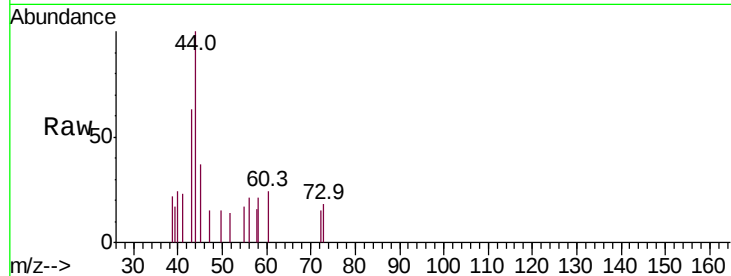
SA-MW131D-20200901

Tot Ion: 43 Resp: 422

Ion Ratio Lower Upper

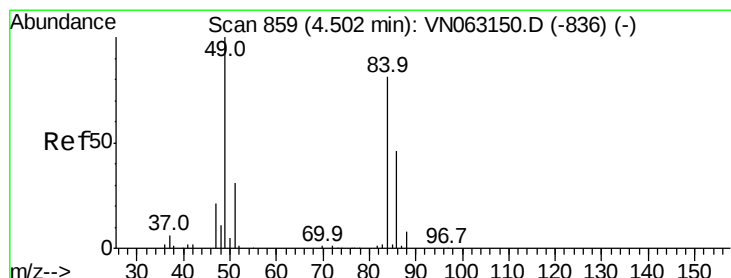
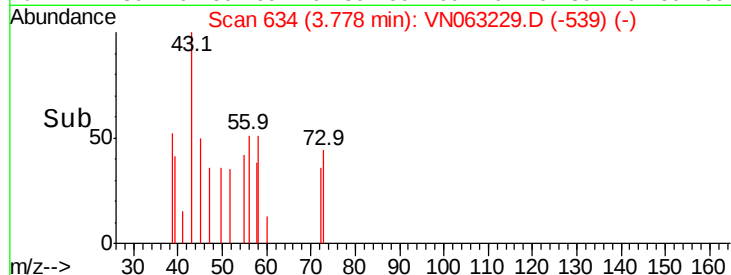
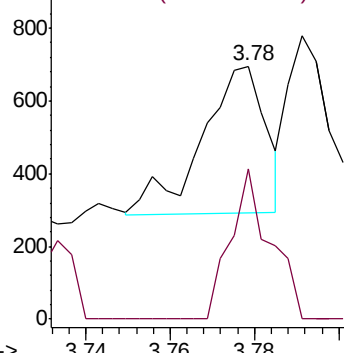
43 100

58 102.5 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 862

Delta R.T. 0.01 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Tgt Ion: 84 Resp: 599

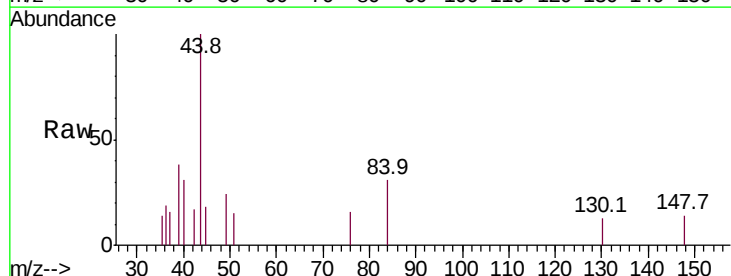
Ion Ratio Lower Upper

84 100

49 24.6 98.4 147.6#

51 0.0 30.4 45.6#

86 0.0 45.7 68.5#

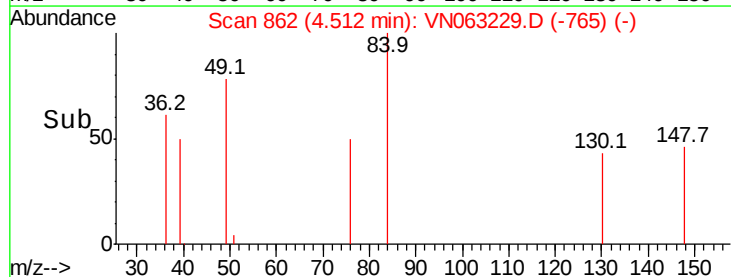
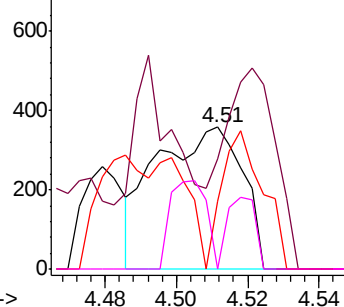


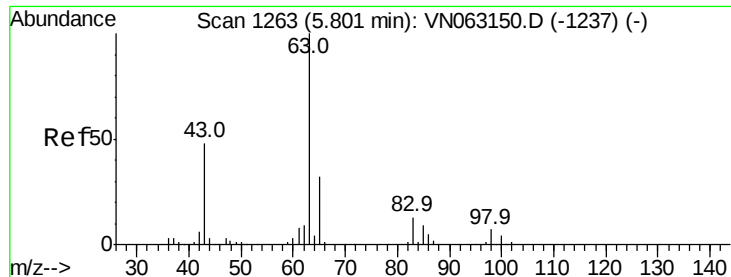
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#24

1,1-Dichloroethane

Concen: 54.076 ug/l

RT: 5.80 min Scan# 1263

Delta R.T. -0.00 min

Lab File: VN063229.D

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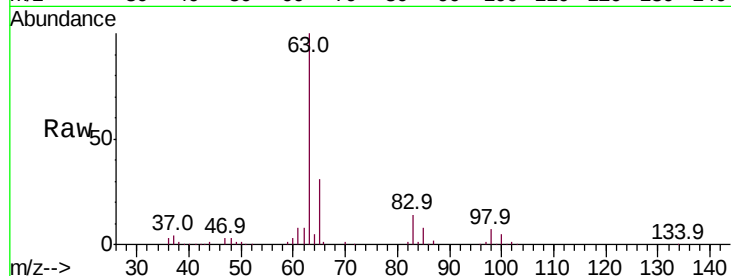
Tot Ion: 63 Resp: 383430

Ion Ratio Lower Upper

63 100

98 6.9 3.4 10.1

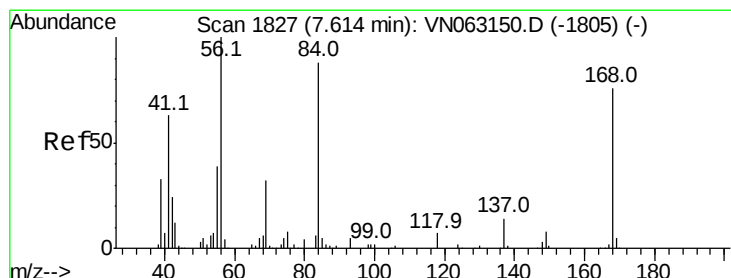
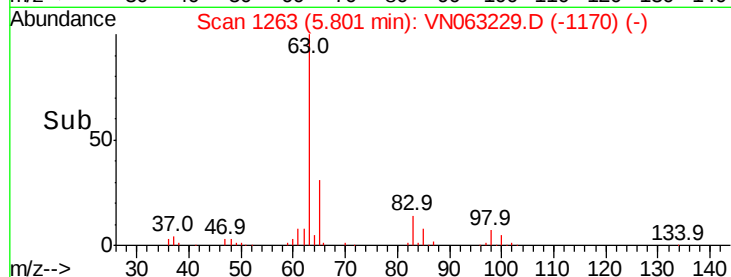
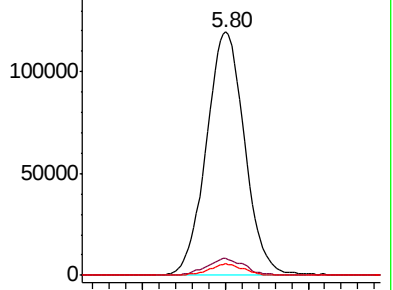
100 4.7 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VN063150.D (-1237) (-)

Ion 97.90 (97.60 to 98.60): VN063150.D (-1237) (-)

Ion 99.90 (99.60 to 100.60): VN063150.D (-1237) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

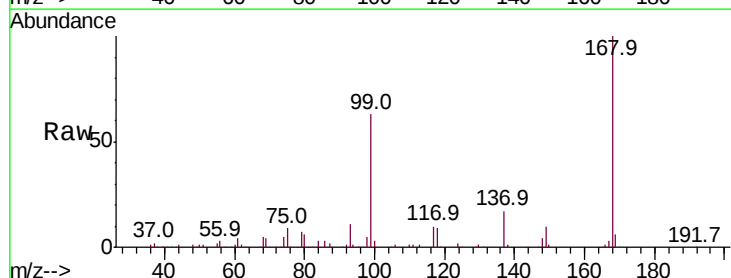
Tgt Ion: 56 Resp: 8807

Ion Ratio Lower Upper

56 100

69 108.1 25.4 38.0#

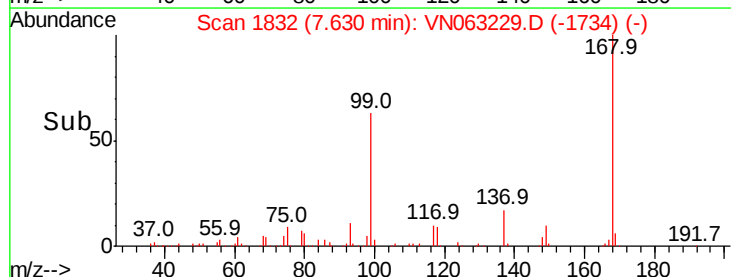
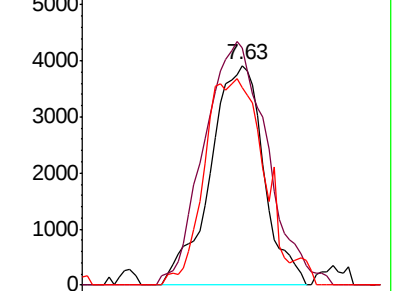
84 90.1 70.2 105.4

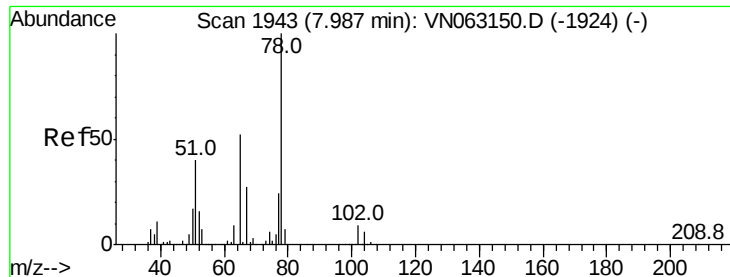


Abundance Ion 56.00 (55.70 to 56.70): VN063150.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063150.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063150.D (-1805) (-)





#33

1,2-Dichloroethane-d4

Concen: 49.061 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

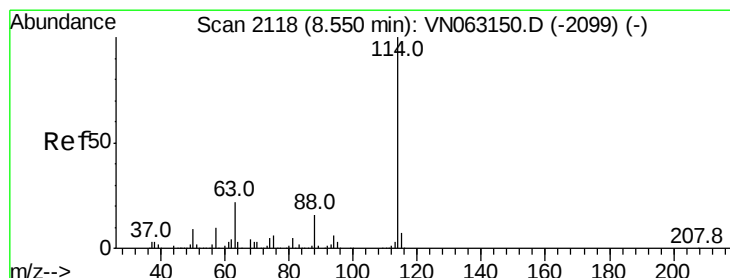
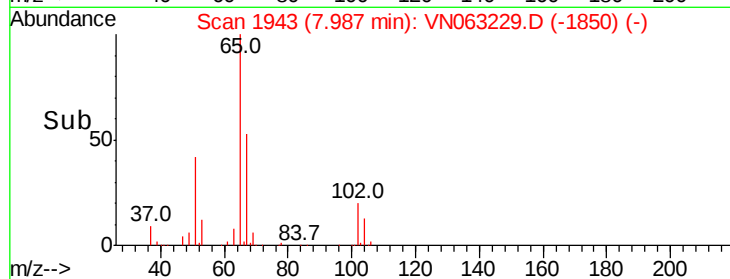
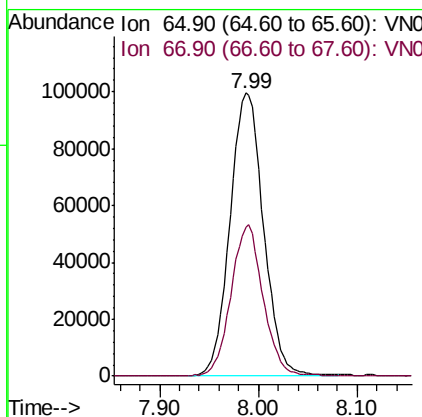
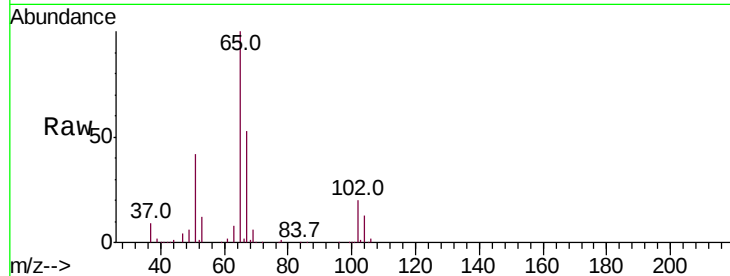
Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :
MSVOA_N
ClientSampleId :
SA-MW131D-20200901

Tot Ion: 65 Resp: 236235

Ion	Ratio	Lower	Upper
65	100		
67	51.1	0.0	104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

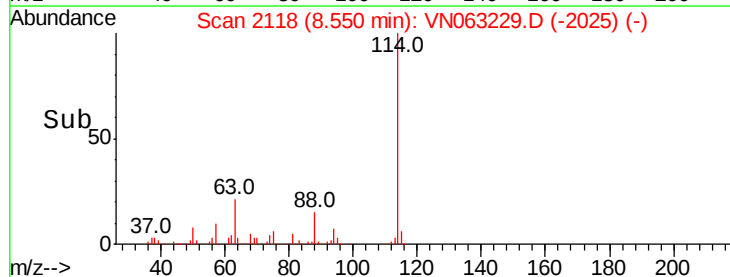
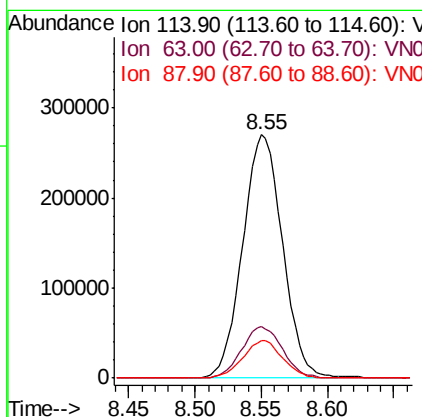
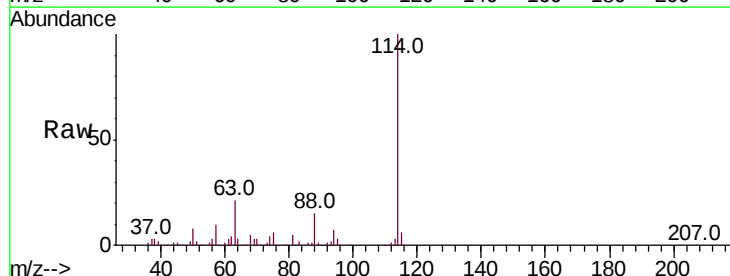
Delta R.T. -0.00 min

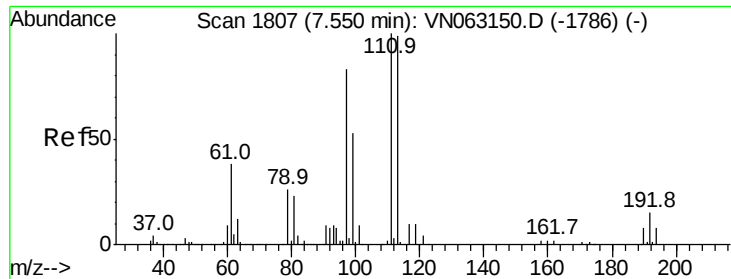
Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Tgt Ion: 114 Resp: 563986

Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	43.0
88	15.4	0.0	31.6

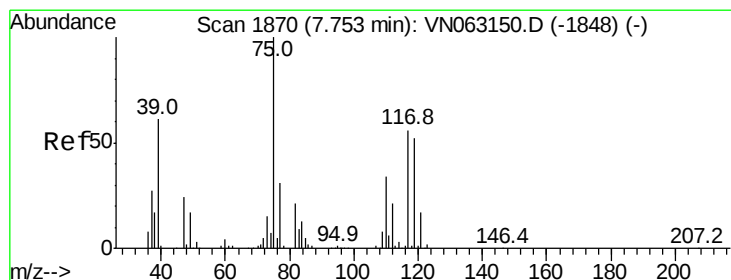
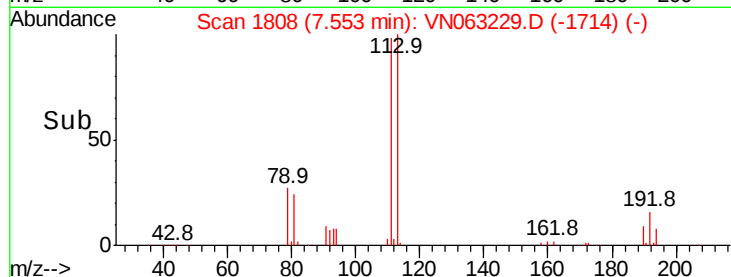
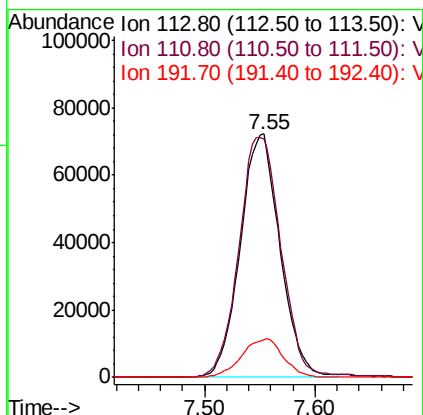
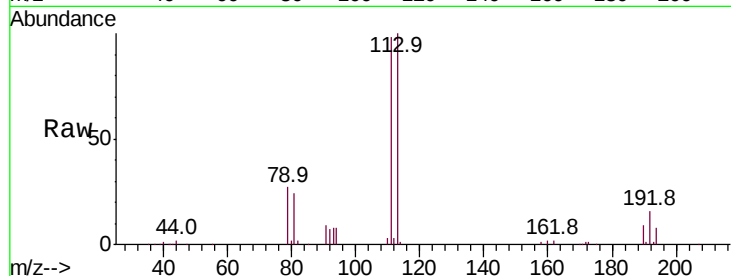




#35
Dibromofluoromethane
Concen: 49.777 ug/l
RT: 7.55 min Scan# 1808
Delta R.T. 0.00 min
Lab File: VN063229.D
Acq: 3 Sep 2020 18:48

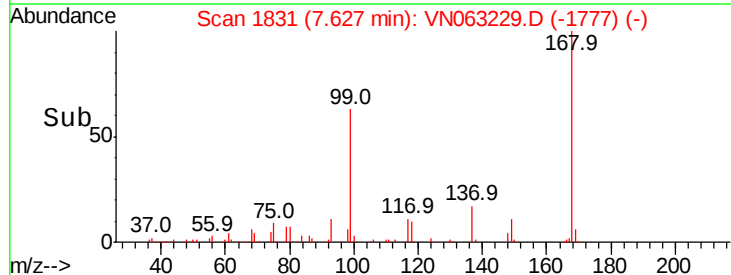
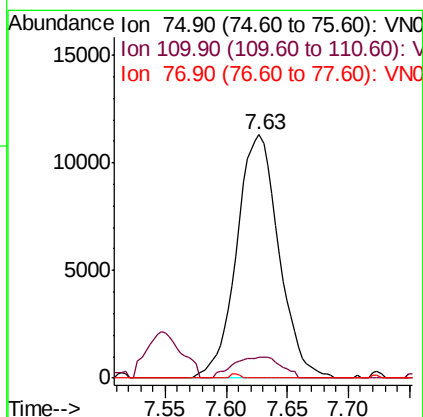
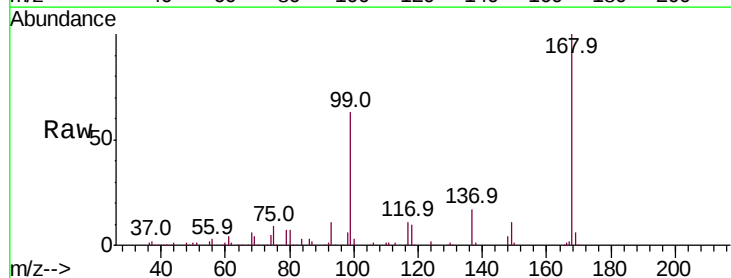
Instrument :
MSVOA_N
ClientSampleId :
SA-MW131D-20200901

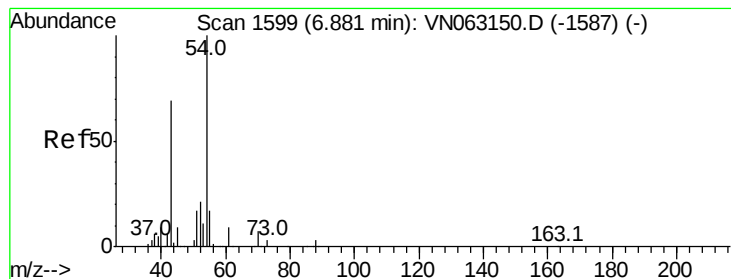
Tot Ion:113 Resp: 180105
Ion Ratio Lower Upper
113 100
111 104.7 80.7 121.1
192 16.6 12.6 19.0



#36
1,1-Dichloropropene
Concen: 4.991 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.13 min
Lab File: VN063229.D
Acq: 3 Sep 2020 18:48

Tgt Ion: 75 Resp: 27061
Ion Ratio Lower Upper
75 100
110 9.9 16.6 49.8#
77 0.0 25.4 38.2#





#37

Ethyl Acetate

Concen: 0.420 ug/l

RT: 6.89 min Scan# 1601

Delta R.T. 0.01 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

SA-MW131D-20200901

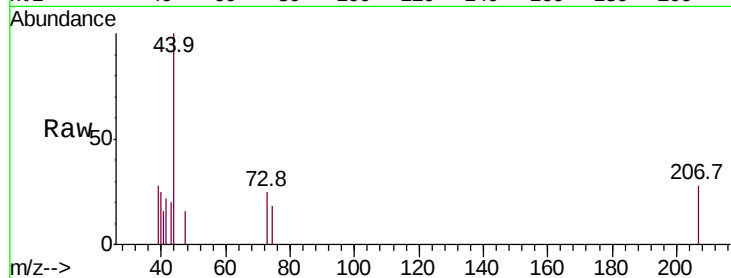
Tot Ion: 43 Resp: 203

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

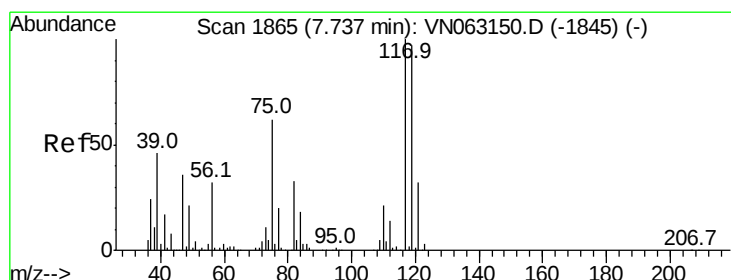
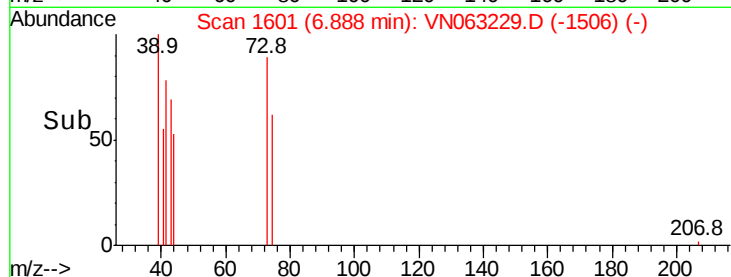
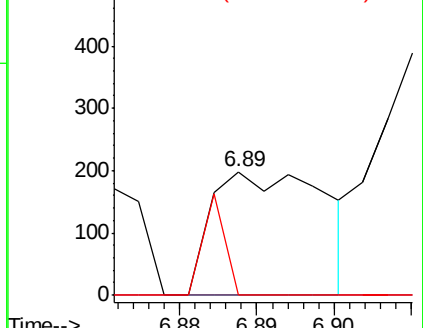
70 15.3 3.0 4.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0



#38

Carbon Tetrachloride

Concen: 5.895 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

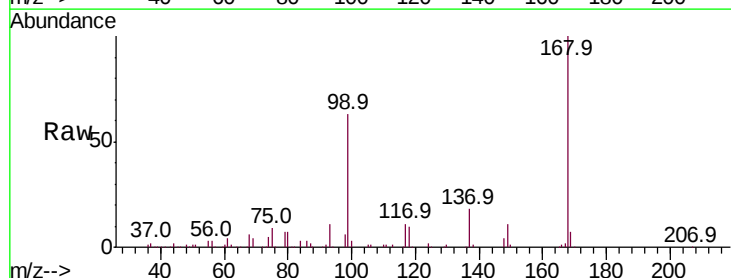
Tgt Ion: 117 Resp: 32412

Ion Ratio Lower Upper

117 100

119 3.2 77.2 115.8#

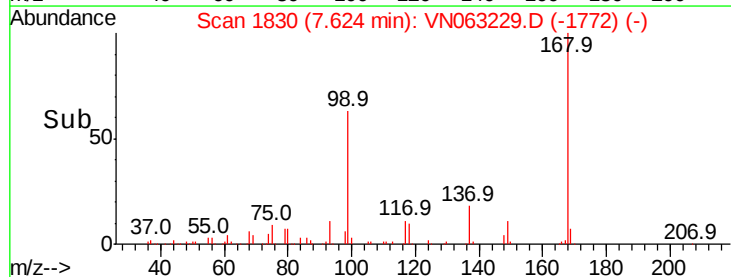
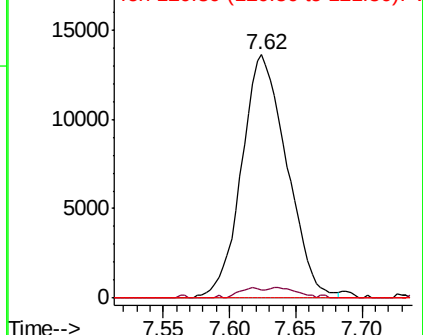
121 0.0 25.6 38.4#

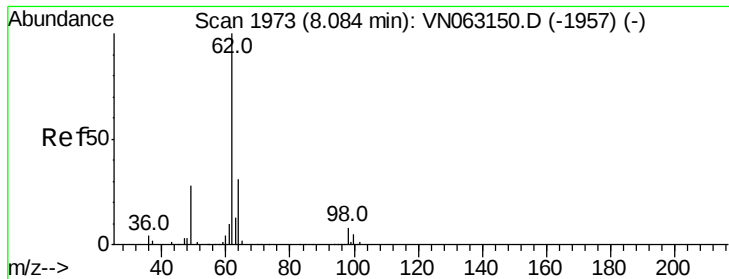


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#42

1,2-Dichloroethane

Concen: 0.263 ug/l

RT: 8.09 min Scan# 1976

Delta R.T. 0.01 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

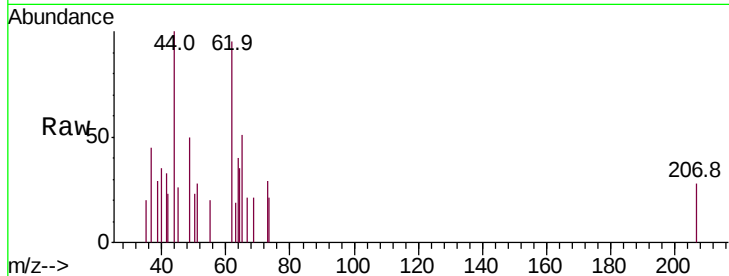
SA-MW131D-20200901

Tot Ion: 62 Resp: 1568

Ion Ratio Lower Upper

62 100

98 7.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VN063150.D (-1957) (-)

Ion 97.90 (97.60 to 98.60): VN063150.D (-1957) (-)

8.09

800

600

400

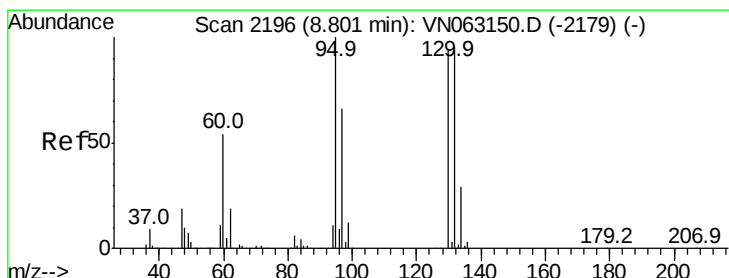
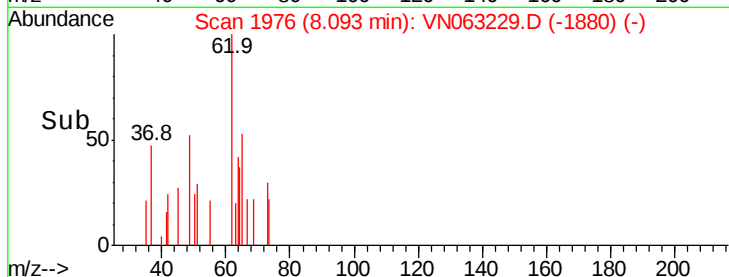
200

0

8.05

8.10

Time-->



#44

Trichloroethene

Concen: 0.299 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VN063229.D

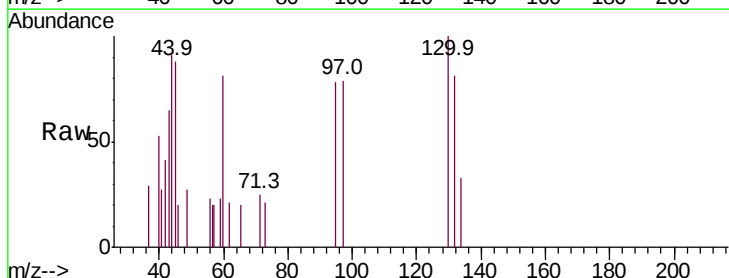
Acq: 3 Sep 2020 18:48

Tgt Ion: 130 Resp: 1156

Ion Ratio Lower Upper

130 100

95 78.3 0.0 212.0



Abundance Ion 129.80 (129.50 to 130.50): VN063150.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN063150.D (-2179) (-)

8.80

800

600

400

200

0

8.76

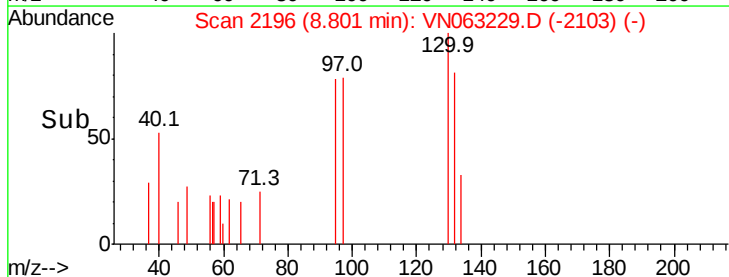
8.78

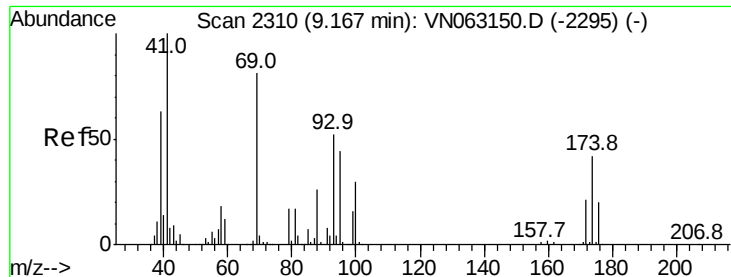
8.80

8.82

8.84

Time-->





#49

1,4-Dioxane

Concen: 6.861 ug/l

RT: 9.18 min Scan# 2313

Delta R.T. 0.01 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

SA-MW131D-20200901

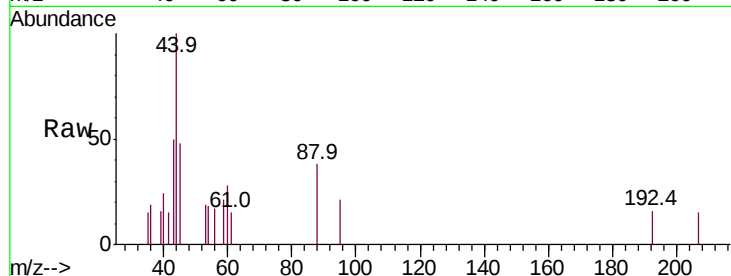
Tot Ion: 88 Resp: 423

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

58 21.7 53.2 79.8#

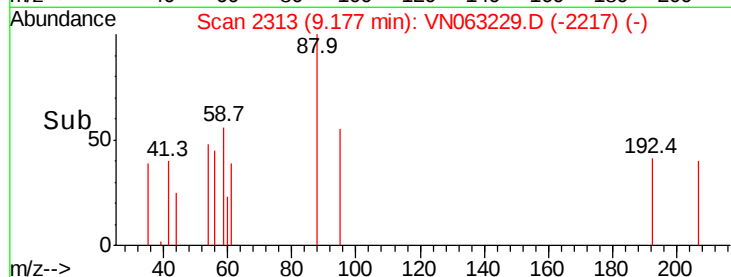


Abundance Ion 88.00 (87.70 to 88.70): VN063150.D (-2295) (-)

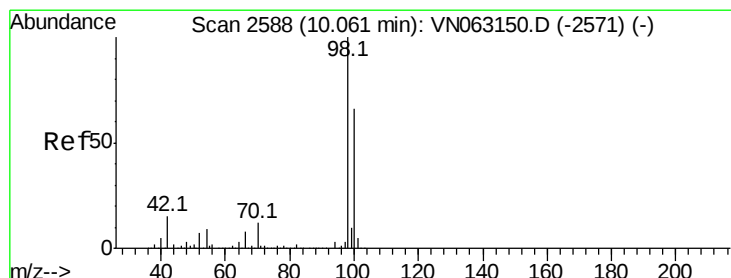
Ion 43.00 (42.70 to 43.70): VN063150.D (-2295) (-)

Ion 58.00 (57.70 to 58.70): VN063150.D (-2295) (-)

Time--> 9.14 9.16 9.18 9.20



Time--> 9.14 9.16 9.18 9.20



#50

Toluene-d8

Concen: 52.248 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063229.D

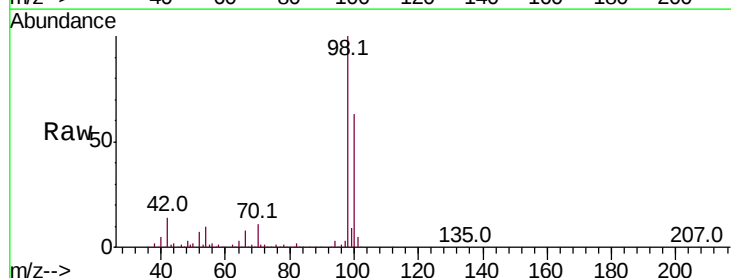
Acq: 3 Sep 2020 18:48

Tgt Ion: 98 Resp: 727648

Ion Ratio Lower Upper

98 100

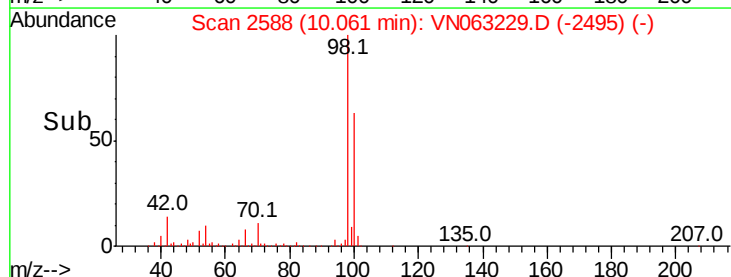
100 64.6 52.0 78.0



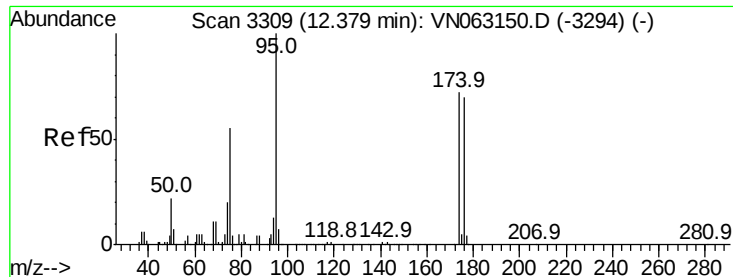
Abundance Ion 98.00 (97.70 to 98.70): VN063150.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN063150.D (-2571) (-)

Time--> 10.00 10.10



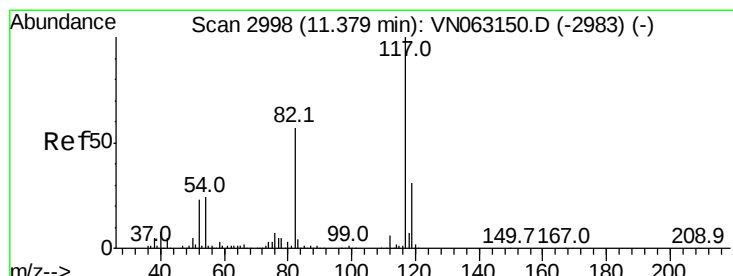
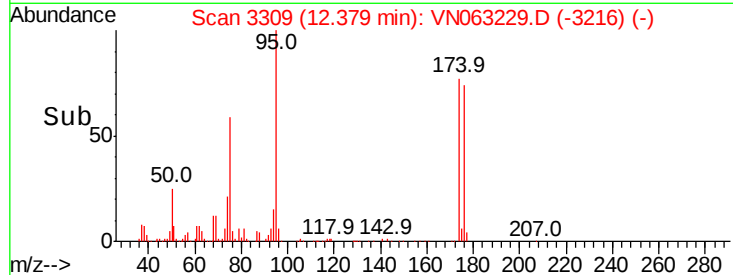
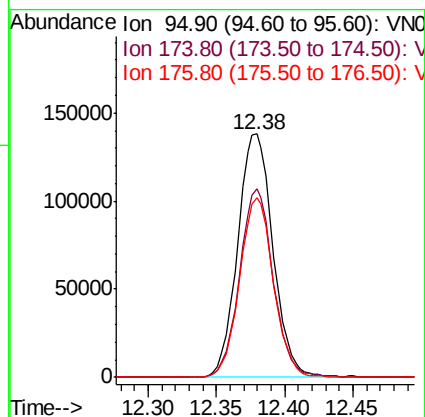
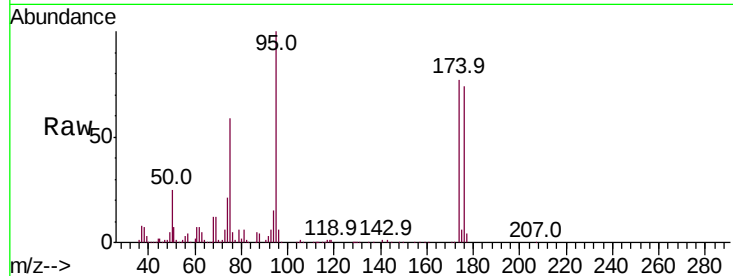
Time--> 10.00 10.10



#62
4-Bromofluorobenzene
Concen: 50.802 ug/l
RT: 12.38 min Scan# 3309
Delta R.T. -0.00 min
Lab File: VN063229.D
Acq: 3 Sep 2020 18:48

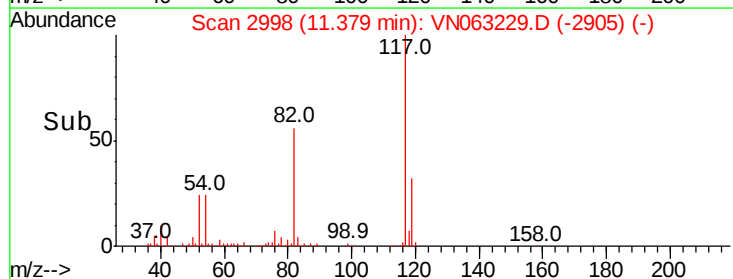
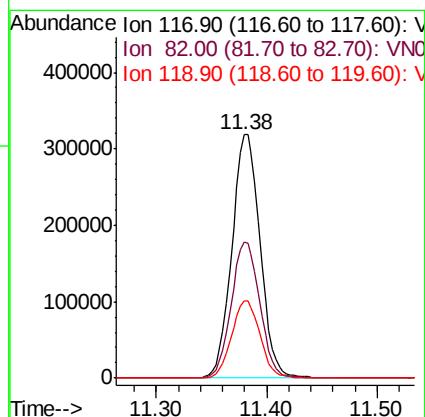
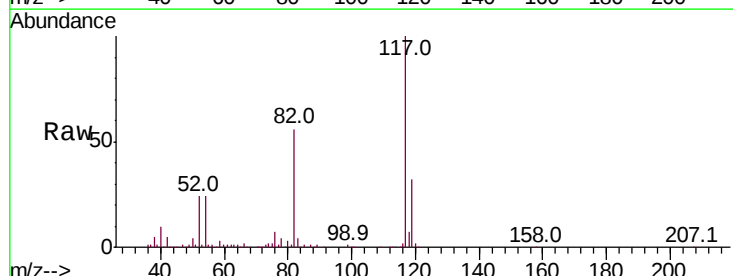
Instrument :
MSVOA_N
ClientSampleId :
SA-MW131D-20200901

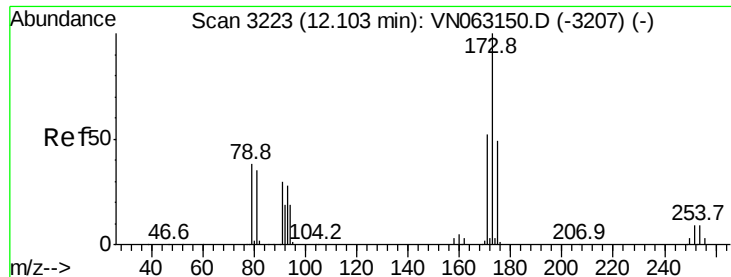
Tot Ion	95	Resp	247490
Ion Ratio	100		
Lower			
Upper			
174	74.1	0.0	143.8
176	70.9	0.0	138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063229.D
Acq: 3 Sep 2020 18:48

Tgt Ion	117	Resp	565261
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	55.9	45.4	68.0
119	31.7	24.6	37.0





#71

Bromoform

Concen: 0.257 ug/l

RT: 12.36 min Scan# 3304

Delta R.T. 0.26 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

SA-MW131D-20200901

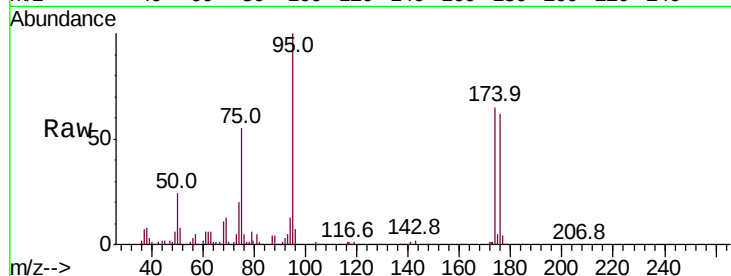
Tot Ion:173 Resp: 738

Ion Ratio Lower Upper

173 100

175 1640.0 24.6 73.8#

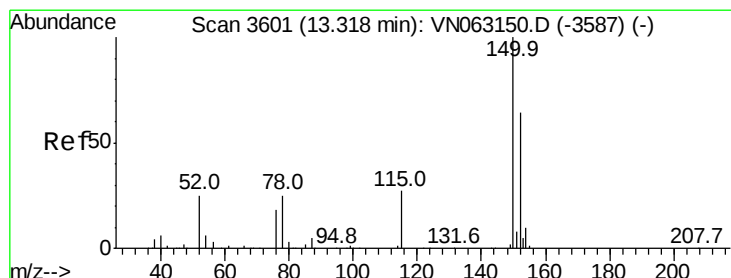
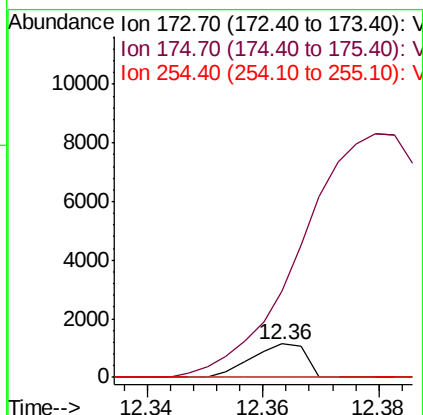
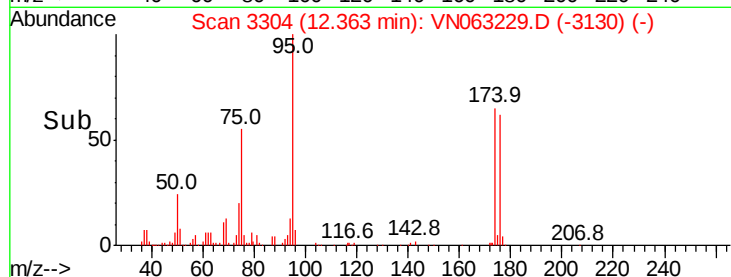
254 0.0 0.0 0.0



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: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

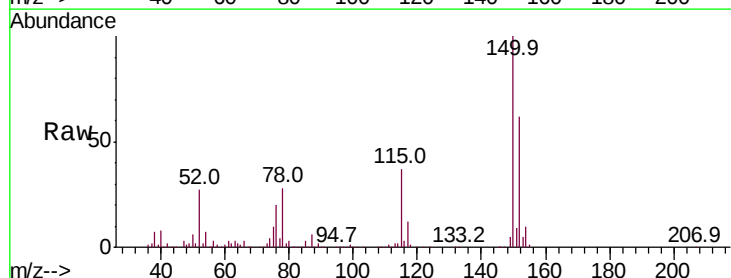
Tgt Ion:152 Resp: 216176

Ion Ratio Lower Upper

152 100

115 61.2 32.0 96.2

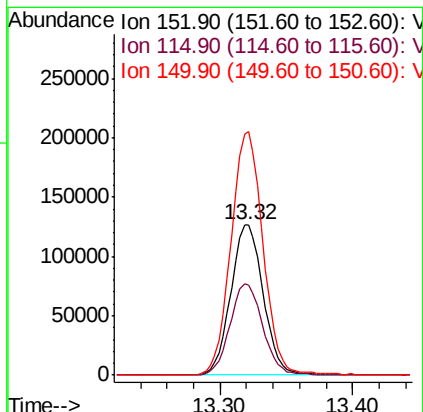
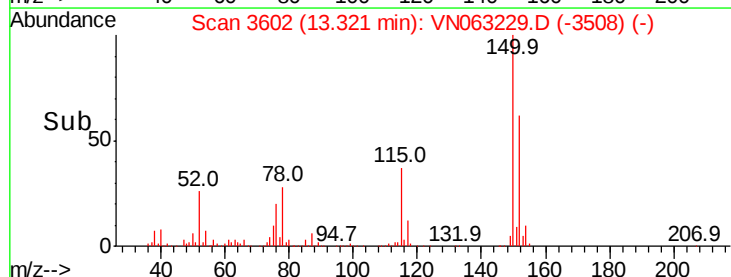
150 159.7 0.0 353.0

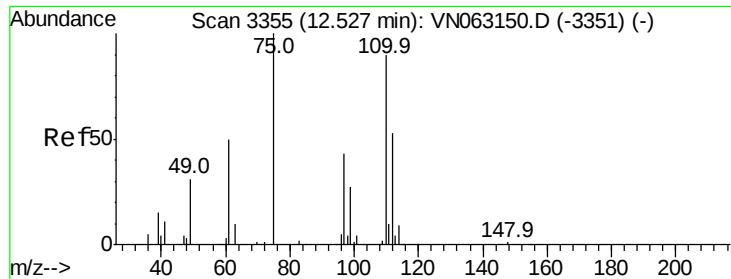


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.113 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. -0.15 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

Instrument :

MSVOA_N

ClientSampleId :

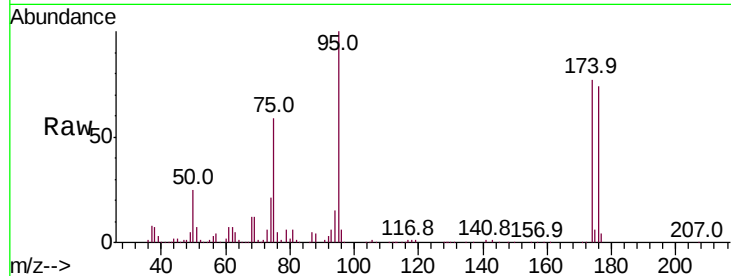
SA-MW131D-20200901

Tot Ion: 75 Resp: 140644

Ion Ratio Lower Upper

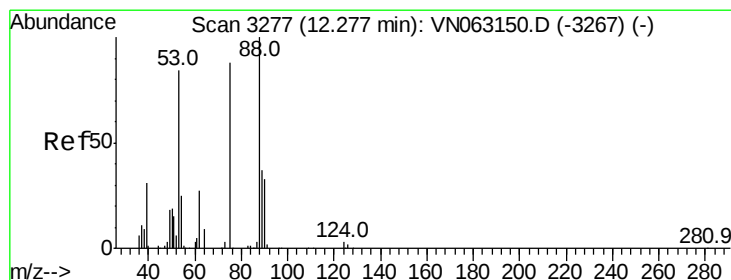
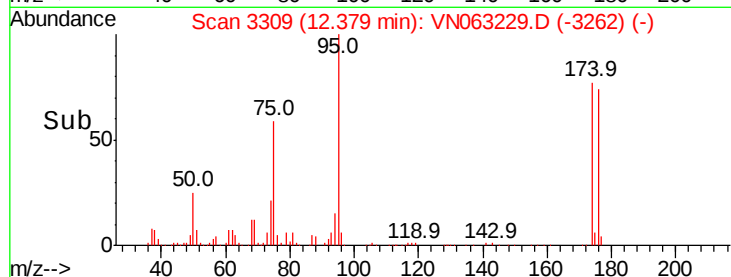
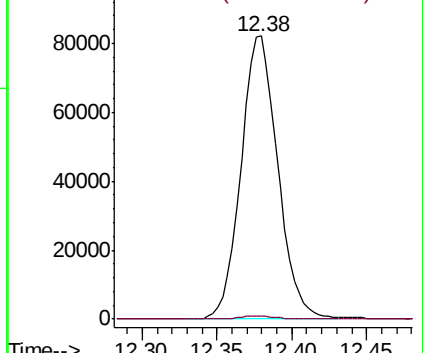
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 80.033 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.10 min

Lab File: VN063229.D

Acq: 3 Sep 2020 18:48

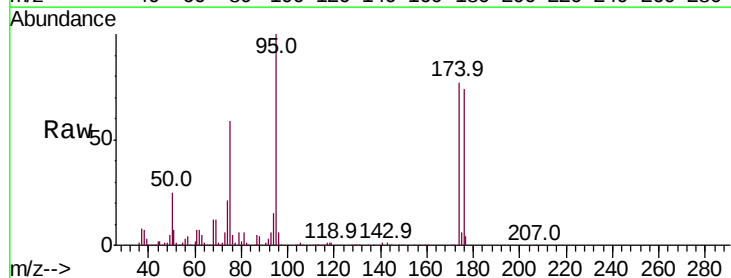
Tgt Ion: 75 Resp: 140644

Ion Ratio Lower Upper

75 100

53 0.2 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

