

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090420\
 Data File : VN063248.D
 Acq On : 4 Sep 2020 15:25
 Operator : JC/MD
 Sample : L3902-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ172I-20200902

Quant Time: Sep 05 07:30:36 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

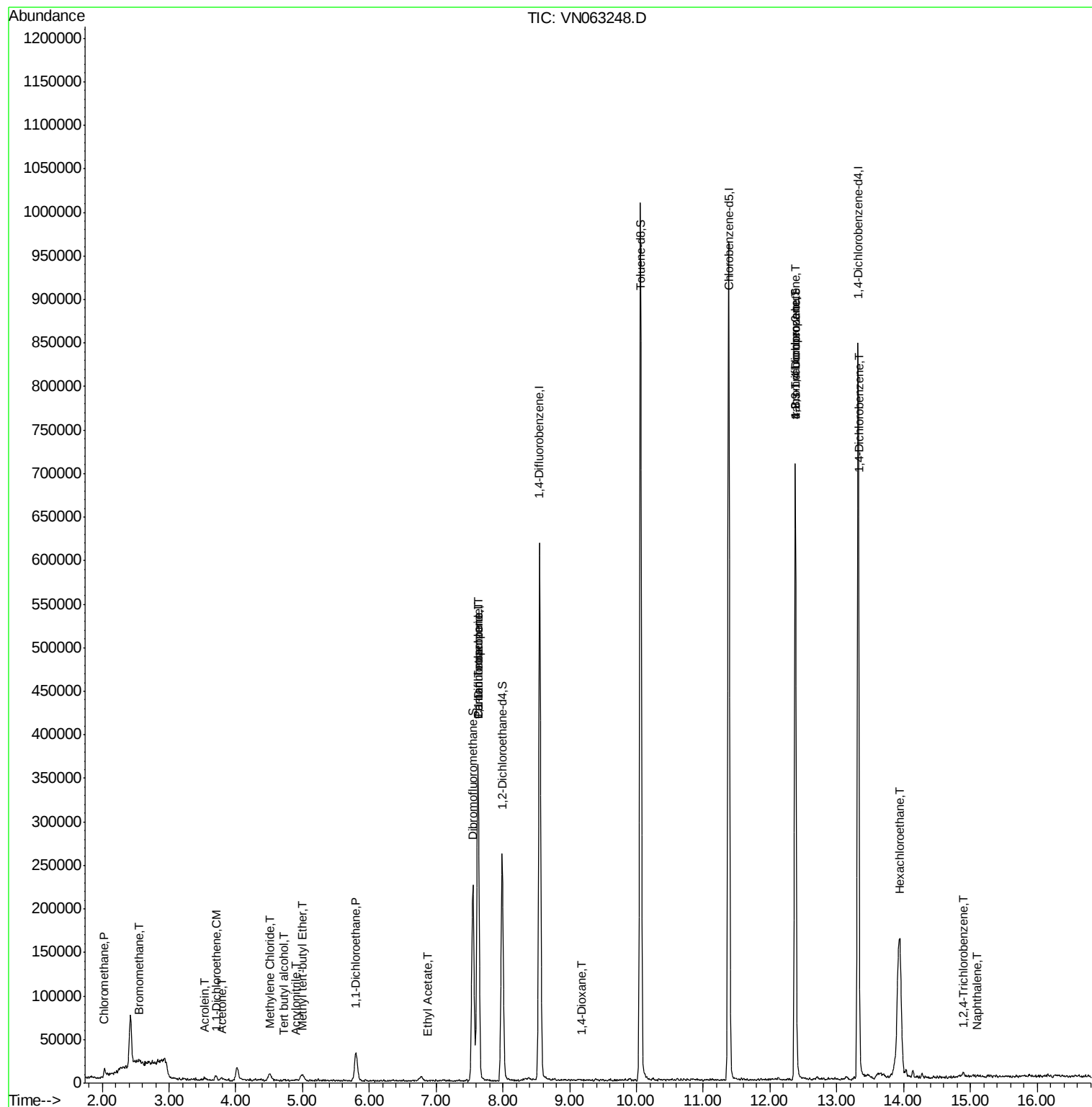
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	273728	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	529610	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	523441	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	202516	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	218901	48.92	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.84%	
35) Dibromofluoromethane	7.55	113	168315	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
50) Toluene-d8	10.06	98	672942	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
62) 4-Bromofluorobenzene	12.38	95	228452	49.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.88%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	5739	1.462	ug/l #	83
5) Bromomethane	2.56	94	1385	0.379	ug/l #	56
7) Trichlorofluoromethane	3.00	101	30	Below Cal	#	19
11) Tert butyl alcohol	4.71	59	276	0.502	ug/l #	21
12) 1,1-Dichloroethene	3.71	96	1158	0.386	ug/l	79
13) Acrolein	3.54	56	149	16.437	ug/l	93
15) Acrylonitrile	4.91	53	32	2.425	ug/l #	1
16) Acetone	3.78	43	4270	3.357	ug/l	97
19) Methyl tert-butyl Ether	4.98	73	4570	0.410	ug/l	92
20) Methylene Chloride	4.50	84	3992	0.630	ug/l #	89
24) 1,1-Dichloroethane	5.80	63	44672	6.780	ug/l	98
31) Cyclohexane	7.62	56	8460	Below Cal	#	27
36) 1,1-Dichloropropene	7.63	75	25695	5.047	ug/l #	44
37) Ethyl Acetate	6.87	43	203	0.422	ug/l #	72
38) Carbon Tetrachloride	7.63	117	30895	5.983	ug/l #	16
49) 1,4-Dioxane	9.16	88	58	1.002	ug/l #	25
76) 1,2,3-Trichloropropane	12.38	75	133021	33.431	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	133021	80.801	ug/l #	10
88) 1,4-Dichlorobenzene	13.34	146	3498	0.523	ug/l #	49
90) Hexachloroethane	13.93	117	3045	1.282	ug/l #	20
93) 1,2,4-Trichlorobenzene	14.89	180	1504	0.430	ug/l #	56
95) Naphthalene	15.11	128	2500	0.214	ug/l #	76

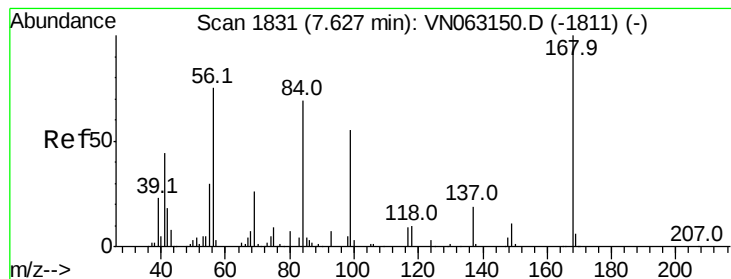
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

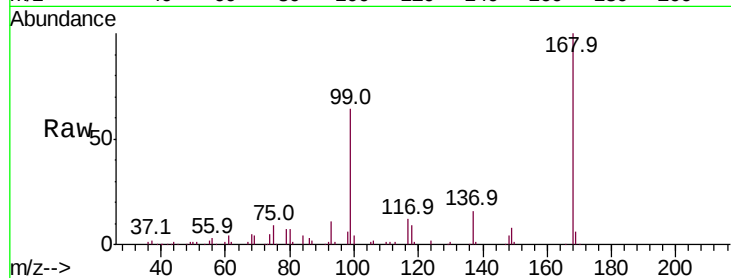
SA-PZ172I-20200902

Tot Ion:168 Resp: 273728

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) (-)

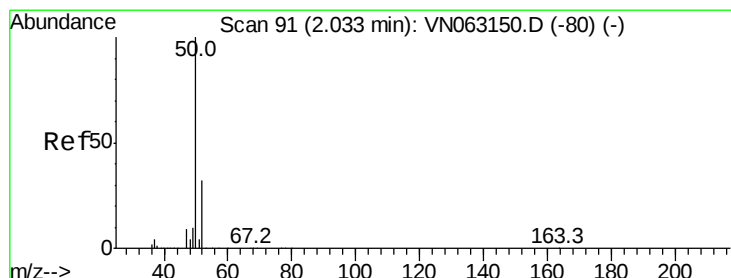
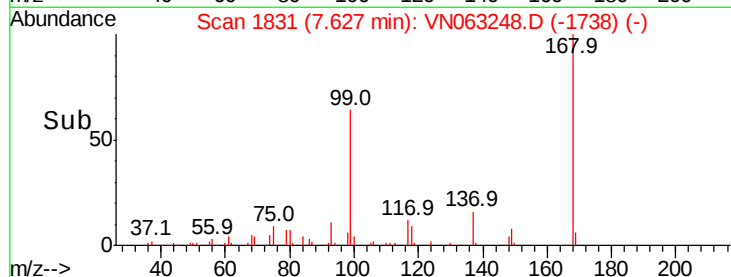
7.63

100000

50000

0

Time-->



#3

Chloromethane

Concen: 1.462 ug/l

RT: 2.03 min Scan# 91

Delta R.T. 0.00 min

Lab File: VN063248.D

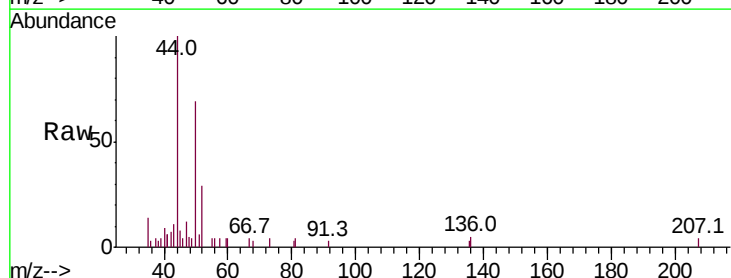
Acq: 4 Sep 2020 15:25

Tgt Ion: 50 Resp: 5739

Ion Ratio Lower Upper

50 100

52 41.6 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) (-)

2.03

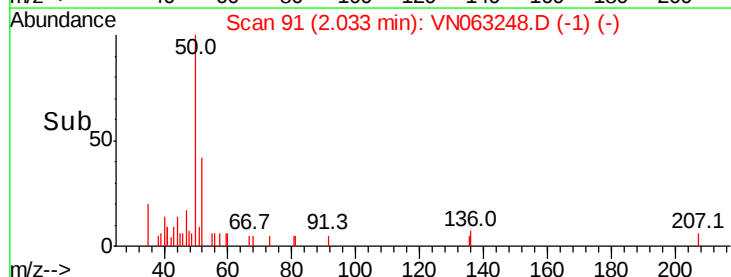
3000

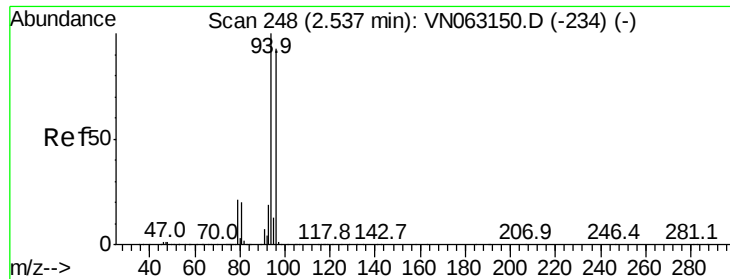
2000

1000

0

Time-->





#5

Bromomethane

Concen: 0.379 ug/l

RT: 2.56 min Scan# 254

Delta R.T. 0.02 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

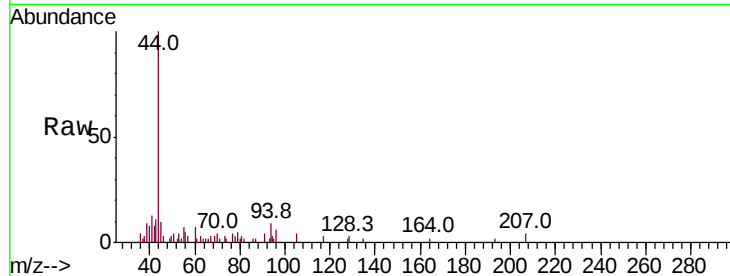
SA-PZ172I-20200902

Tot Ion: 94 Resp: 1385

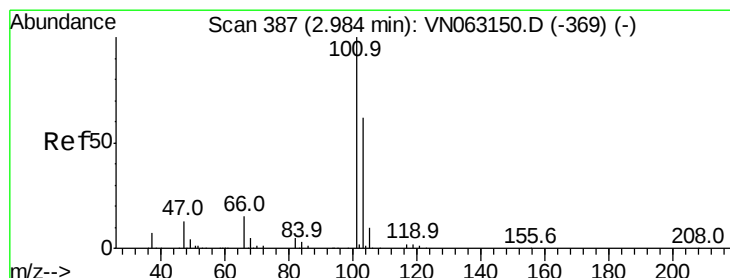
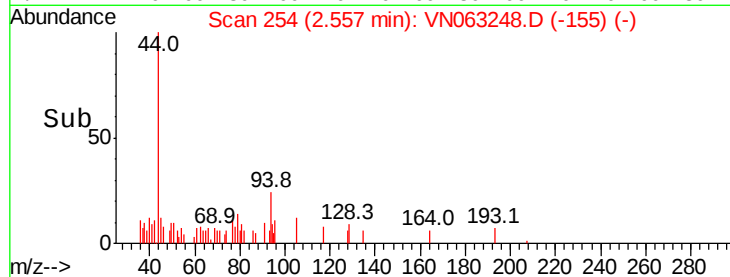
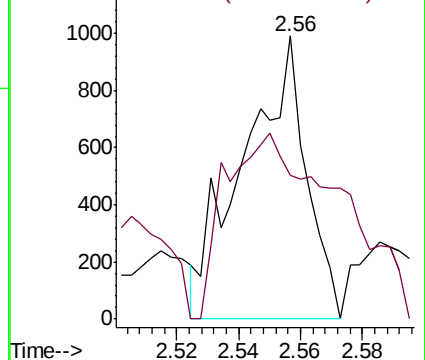
Ion Ratio Lower Upper

94 100

96 50.9 74.4 111.6#



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



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.00 min Scan# 393

Delta R.T. 0.02 min

Lab File: VN063248.D

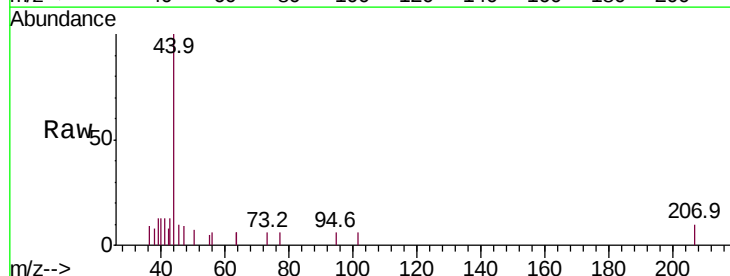
Acq: 4 Sep 2020 15:25

Tgt Ion: 101 Resp: 30

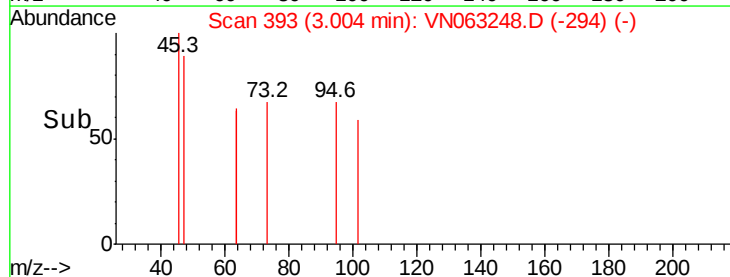
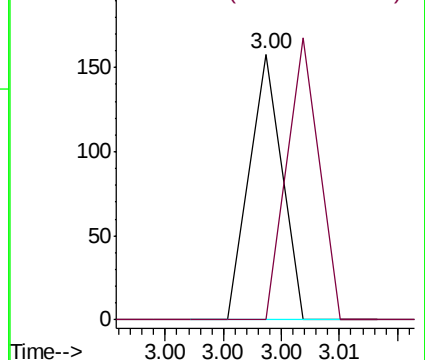
Ion Ratio Lower Upper

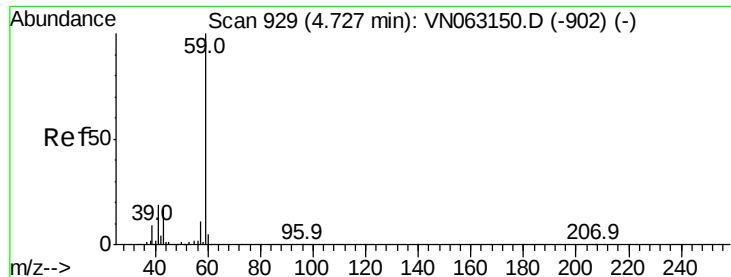
101 100

103 0.0 49.7 74.5#



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



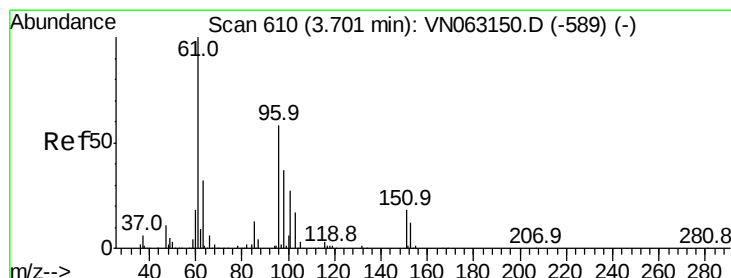
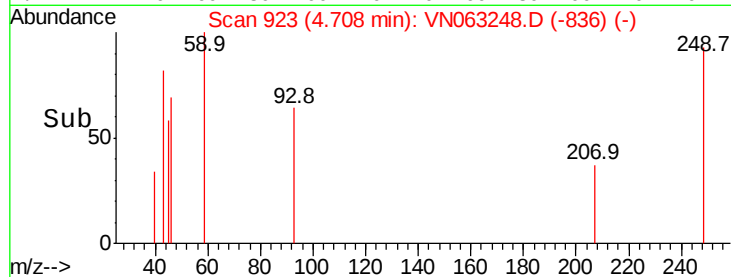
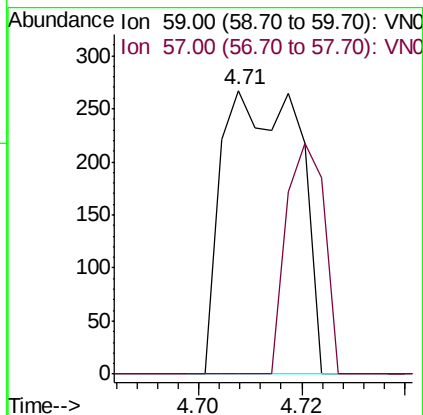
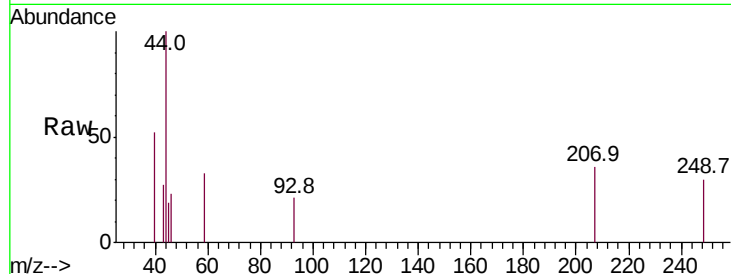


#11

Tert butyl alcohol
Concen: 0.502 ug/l
RT: 4.71 min Scan# 923
Delta R.T. -0.02 min
Lab File: VN063248.D
Acq: 4 Sep 2020 15:25

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ172I-20200902

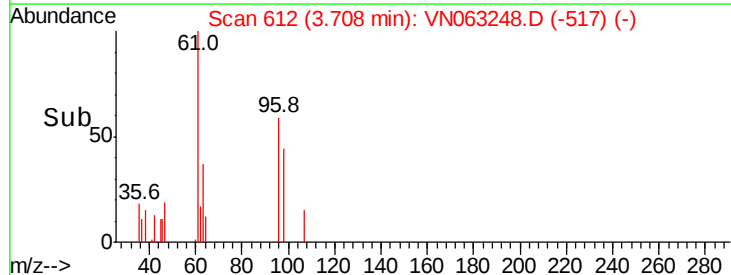
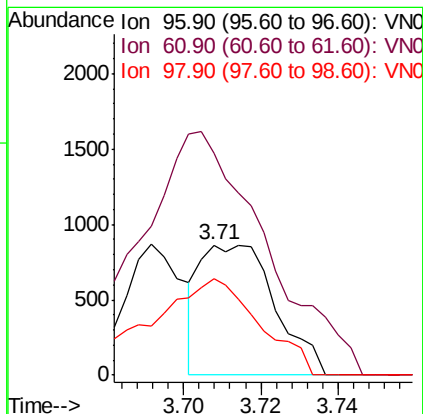
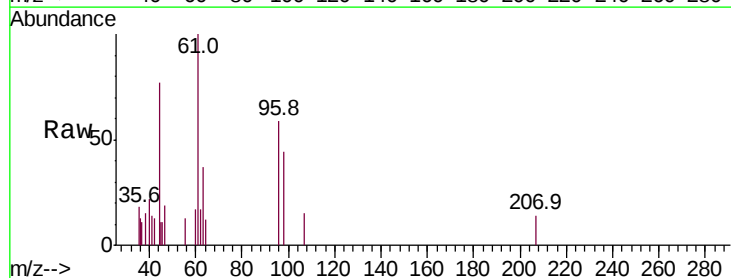
Tot Ion: 59 Resp: 276
Ion Ratio Lower Upper
59 100
57 40.2 8.4 12.6#

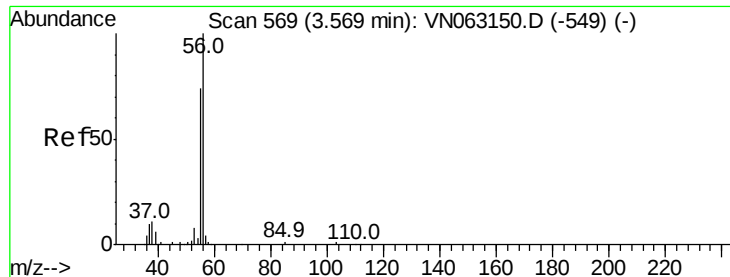


#12

1,1-Dichloroethene
Concen: 0.386 ug/l
RT: 3.71 min Scan# 612
Delta R.T. 0.01 min
Lab File: VN063248.D
Acq: 4 Sep 2020 15:25

Tgt Ion: 96 Resp: 1158
Ion Ratio Lower Upper
96 100
61 139.3 137.4 206.2
98 74.6 50.5 75.7





#13

Acrolein

Concen: 16.437 ug/l

RT: 3.54 min Scan# 560

Delta R.T. -0.03 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

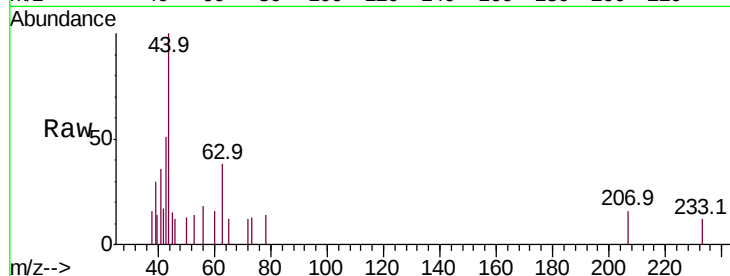
SA-PZ172I-20200902

Tot Ion: 56 Resp: 149

Ion Ratio Lower Upper

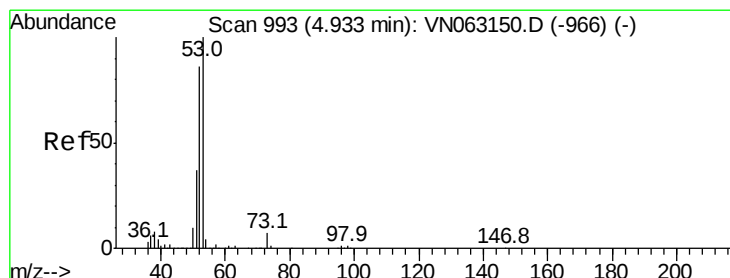
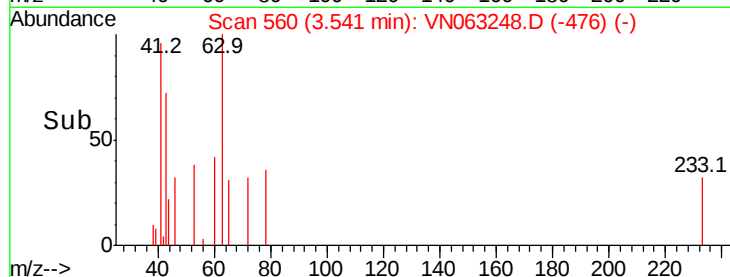
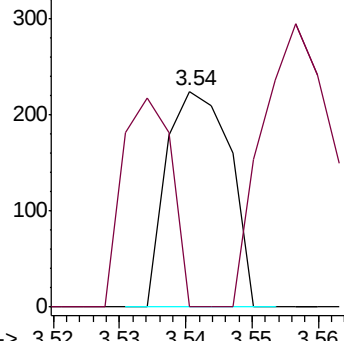
56 100

55 75.2 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: 2.425 ug/l

RT: 4.91 min Scan# 985

Delta R.T. -0.02 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

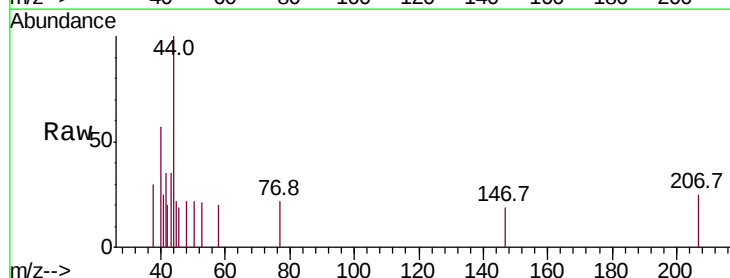
Tgt Ion: 53 Resp: 32

Ion Ratio Lower Upper

53 100

52 193.8 67.2 100.8#

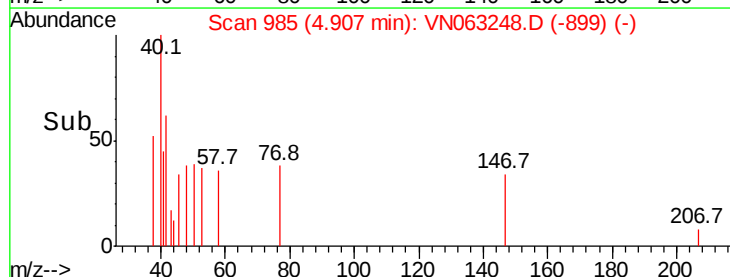
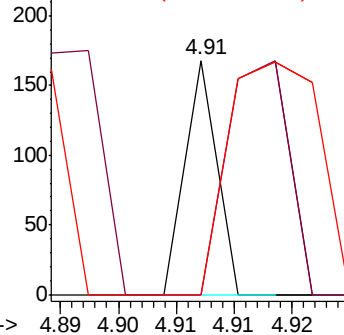
51 284.4 30.2 45.4#

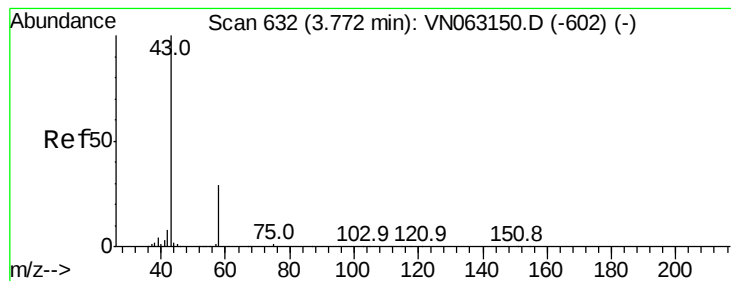


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#16

Acetone

Concen: 3.357 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

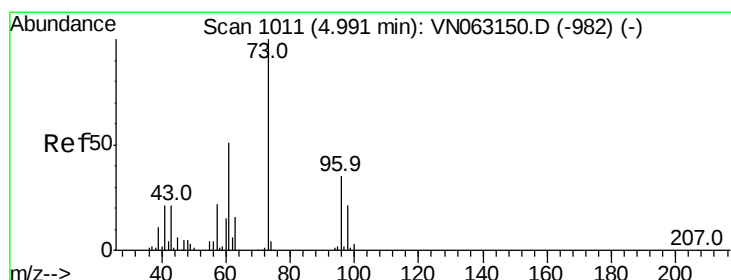
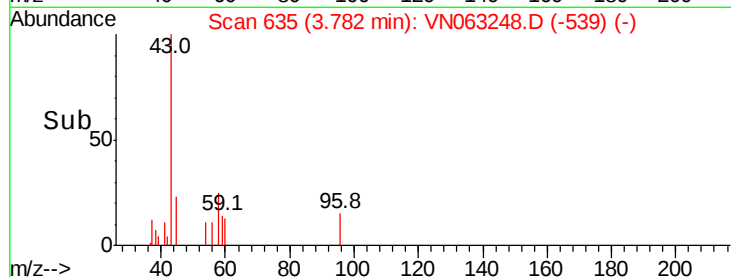
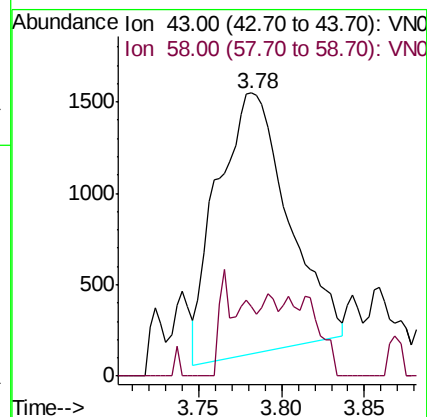
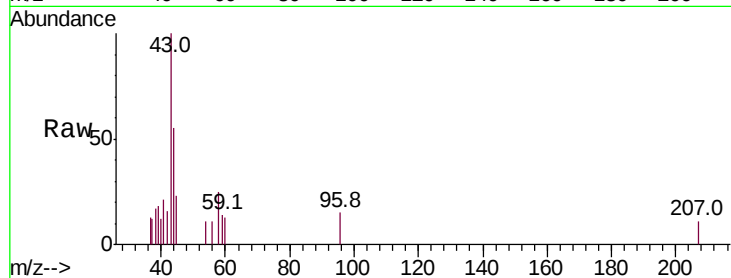
SA-PZ172I-20200902

Tot Ion: 43 Resp: 4270

Ion Ratio Lower Upper

43 100

58 30.5 23.1 34.7



#19

Methyl tert-butyl Ether

Concen: 0.410 ug/l

RT: 4.98 min Scan# 1008

Delta R.T. -0.01 min

Lab File: VN063248.D

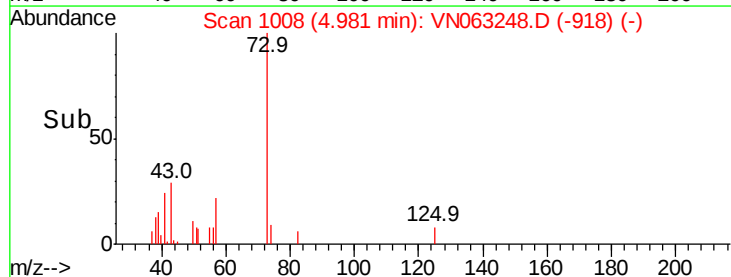
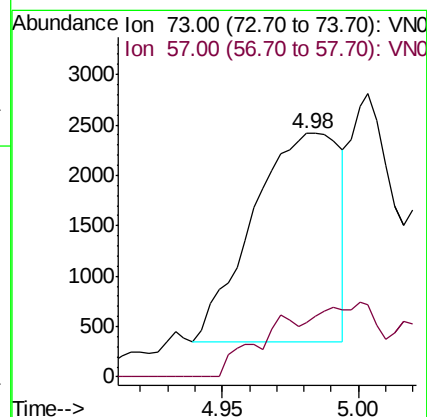
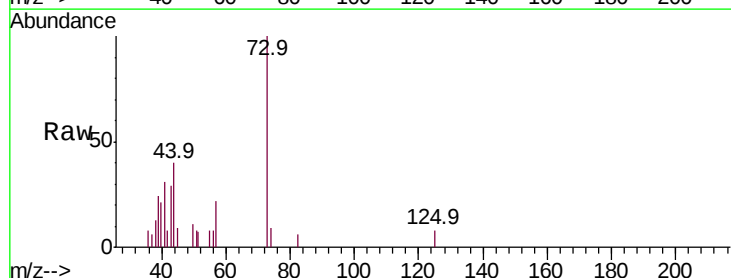
Acq: 4 Sep 2020 15:25

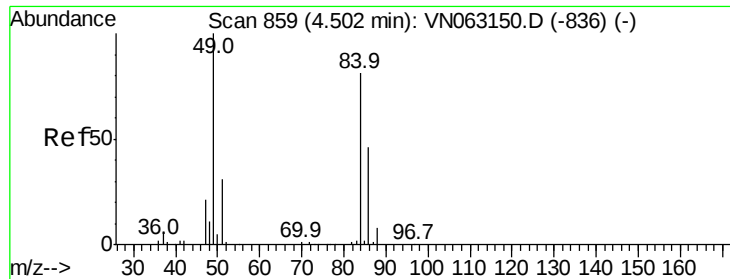
Tgt Ion: 73 Resp: 4570

Ion Ratio Lower Upper

73 100

57 25.9 17.6 26.4

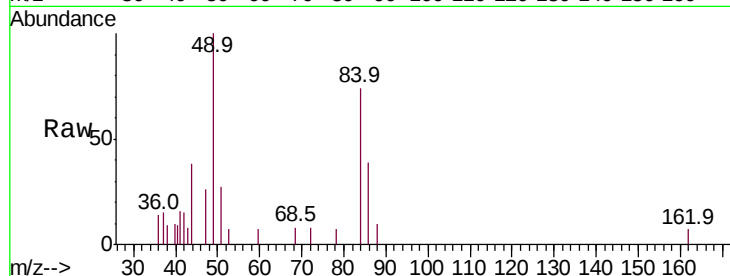




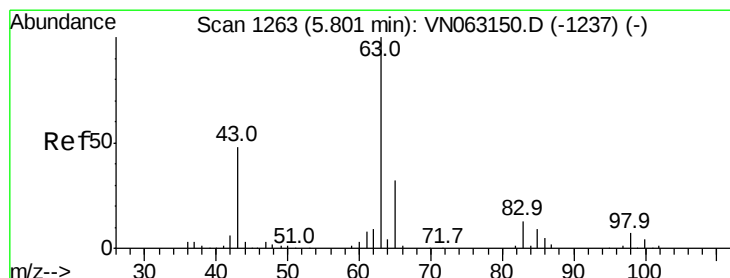
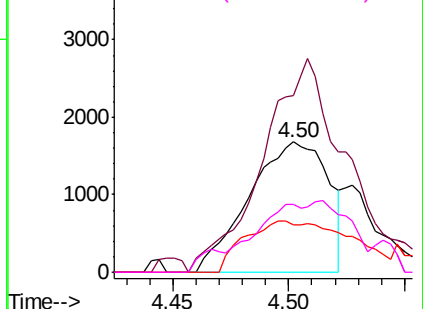
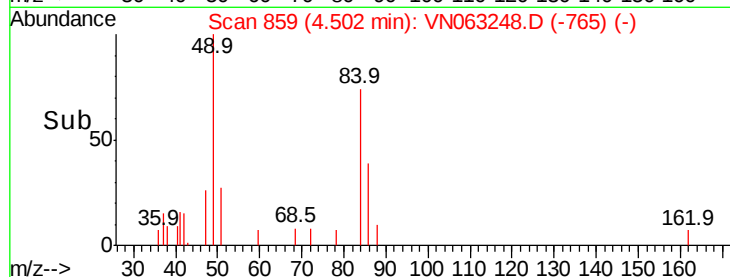
#20
Methvlene Chloride
Concen: 0.630 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN063248.D
Acq: 4 Sep 2020 15:25

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ172I-20200902

Tot Ion: 84 Resp: 3992
Ion Ratio Lower Upper
84 100
49 135.7 98.4 147.6
51 27.0 30.4 45.6#
86 52.5 45.7 68.5

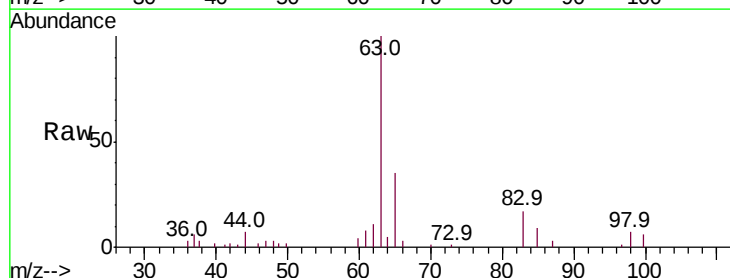


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

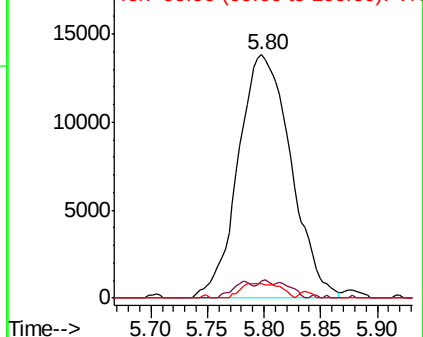
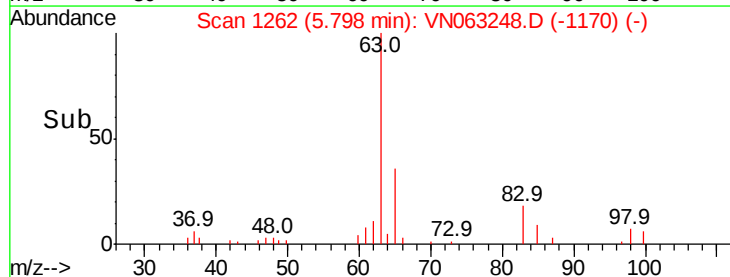


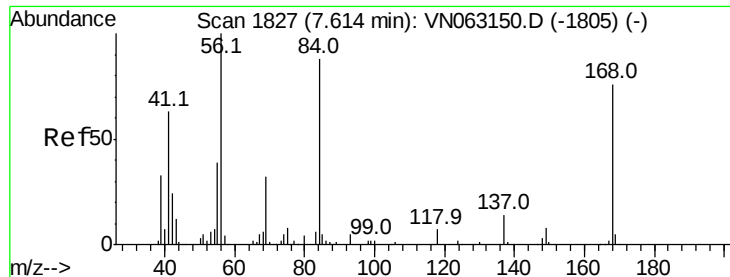
#24
1,1-Dichloroethane
Concen: 6.780 ug/l
RT: 5.80 min Scan# 1262
Delta R.T. -0.00 min
Lab File: VN063248.D
Acq: 4 Sep 2020 15:25

Tgt Ion: 63 Resp: 44672
Ion Ratio Lower Upper
63 100
98 6.9 3.4 10.1
100 5.7 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VNO
Ion 97.90 (97.60 to 98.60): VNO
Ion 99.90 (99.60 to 100.60): VNO





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ172I-20200902

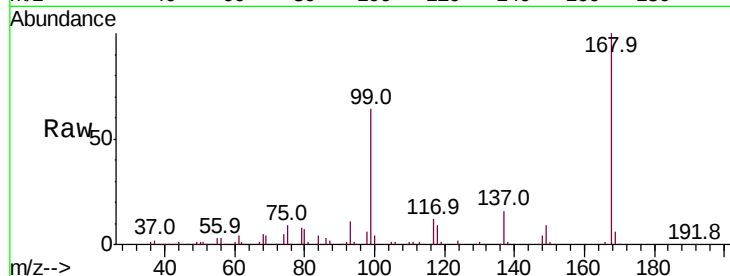
Tot Ion: 56 Resp: 8460

Ion Ratio Lower Upper

56 100

69 117.0 25.4 38.0#

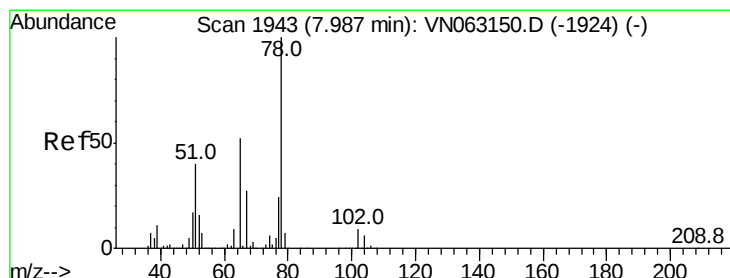
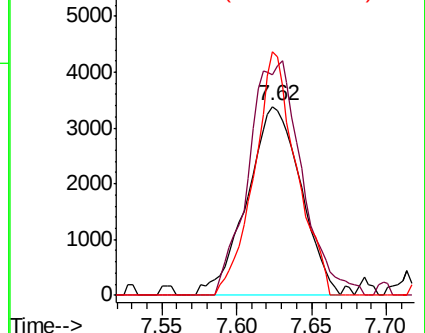
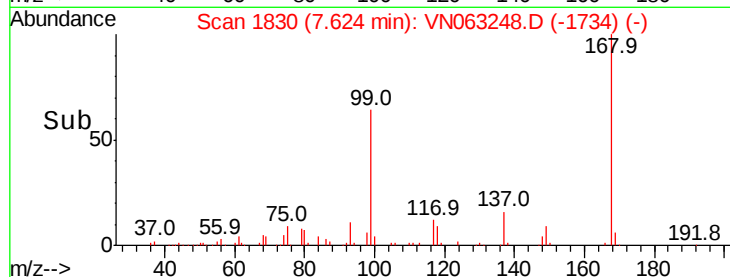
84 128.9 70.2 105.4#



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: 48.920 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063248.D

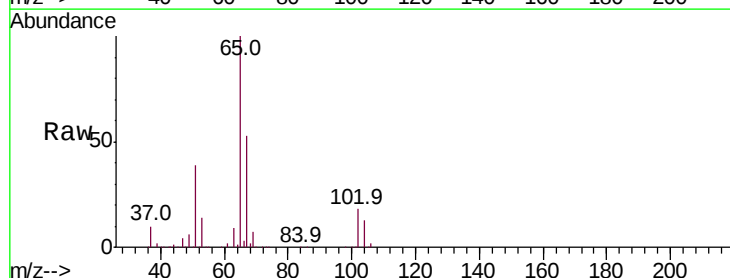
Acq: 4 Sep 2020 15:25

Tgt Ion: 65 Resp: 218901

Ion Ratio Lower Upper

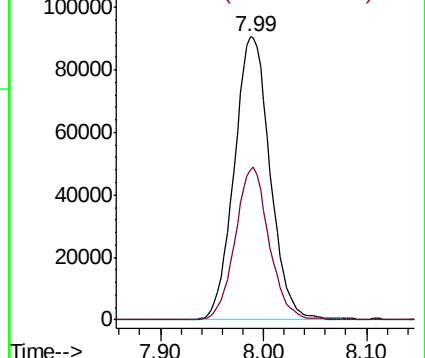
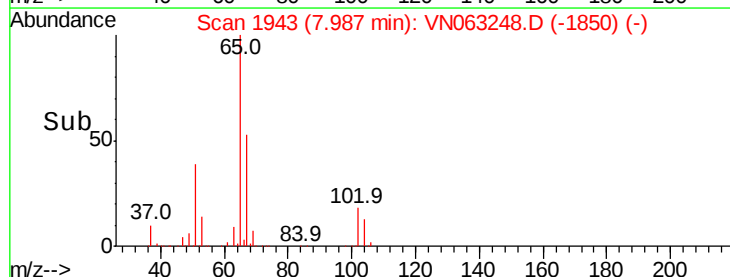
65 100

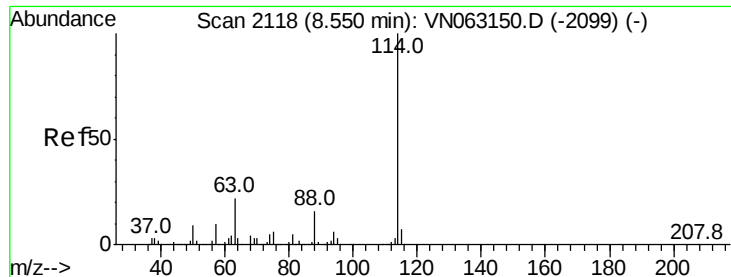
67 50.9 0.0 104.4



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

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

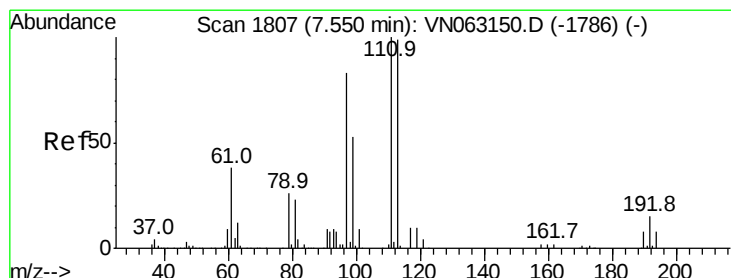
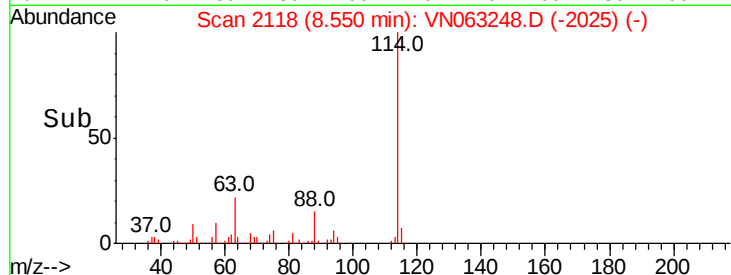
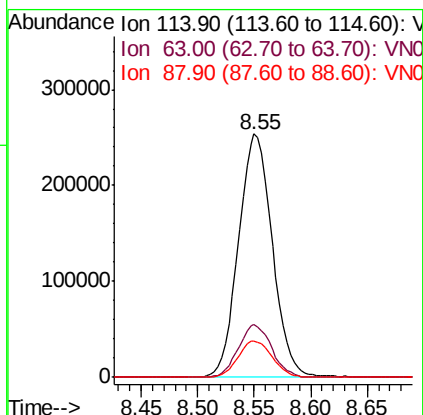
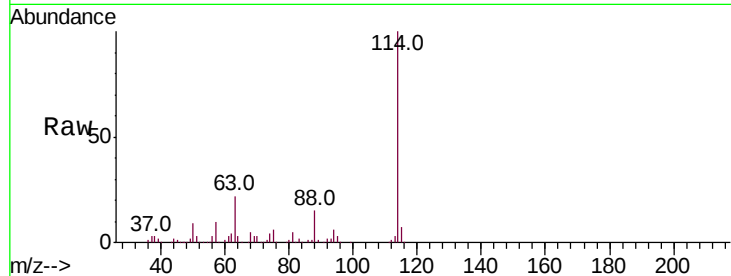




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063248.D
Acq: 4 Sep 2020 15:25

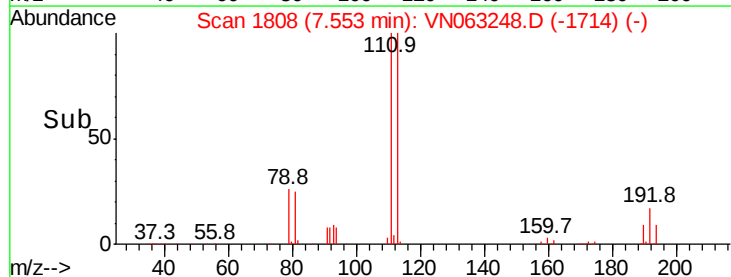
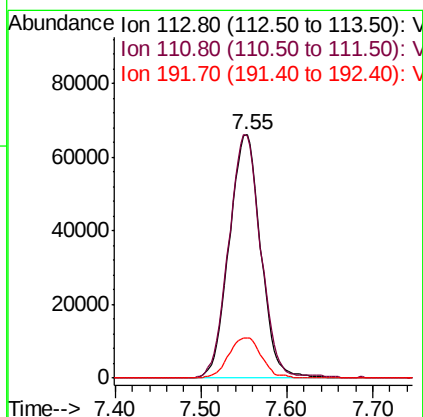
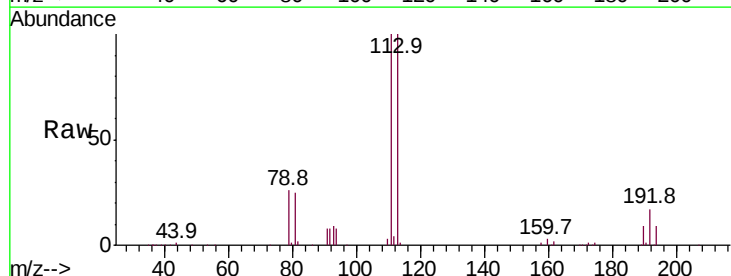
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ172I-20200902

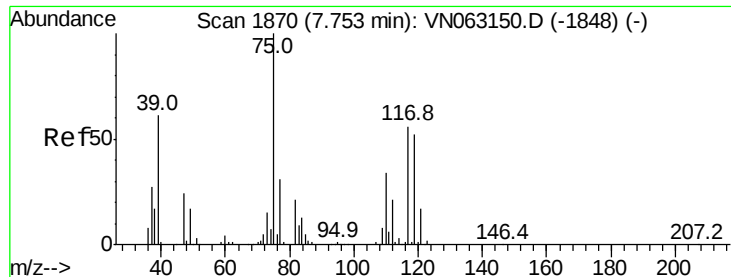
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	43.0
88	15.0	0.0	31.6



#35
Dibromofluoromethane
Concen: 49.538 ug/l
RT: 7.55 min Scan# 1808
Delta R.T. 0.00 min
Lab File: VN063248.D
Acq: 4 Sep 2020 15:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.7	121.1
192	17.4	12.6	19.0





#36

1,1-Dichloropropene

Concen: 5.047 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ172I-20200902

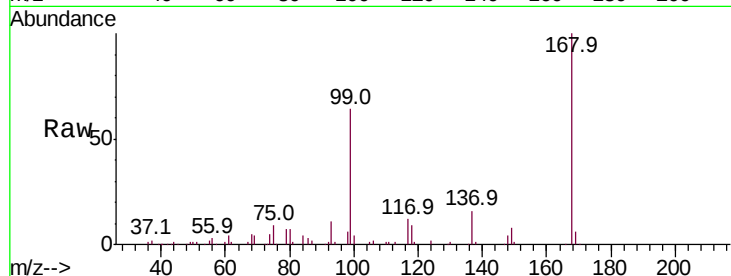
Tot Ion: 75 Resp: 25695

Ion Ratio Lower Upper

75 100

110 2.2 16.6 49.8#

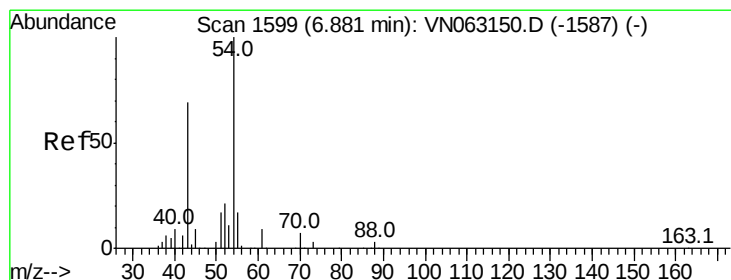
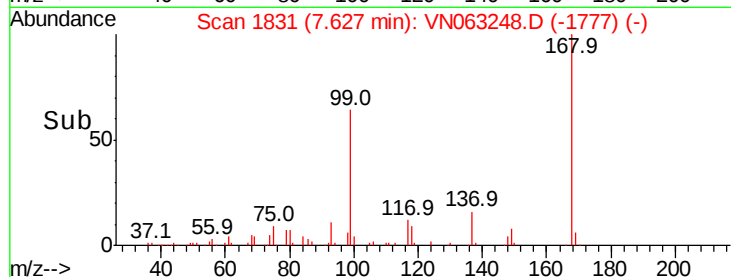
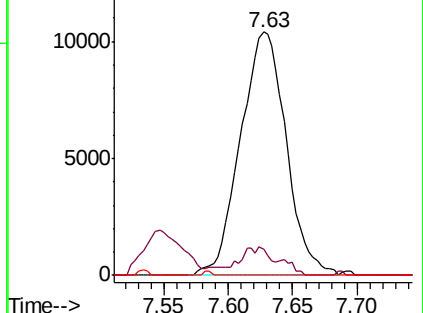
77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.422 ug/l

RT: 6.87 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

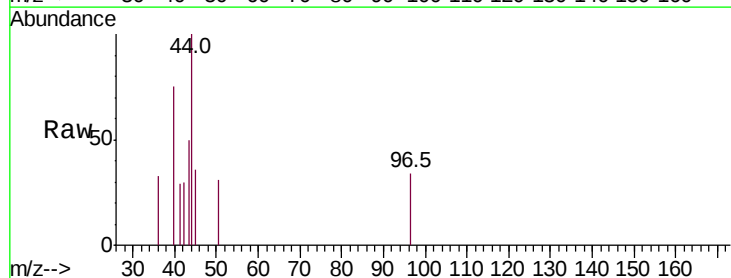
Tgt Ion: 43 Resp: 203

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

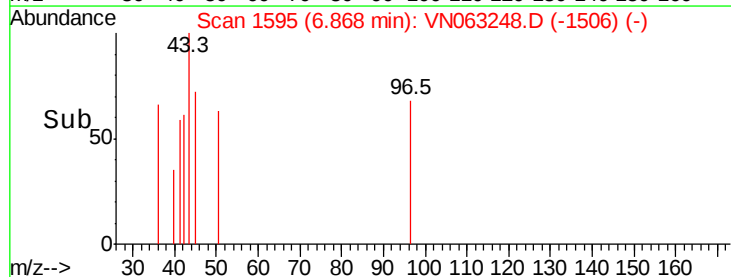
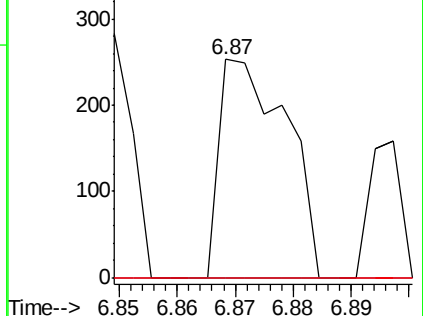
70 0.0 3.0 4.6#

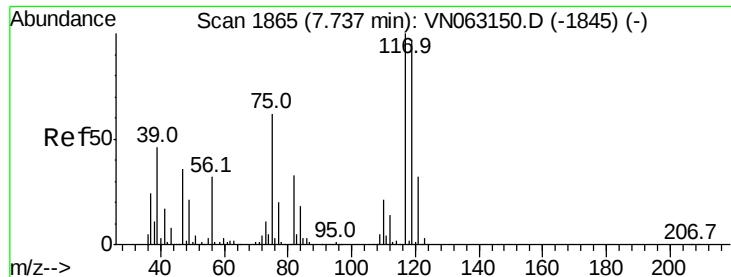


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.983 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ172I-20200902

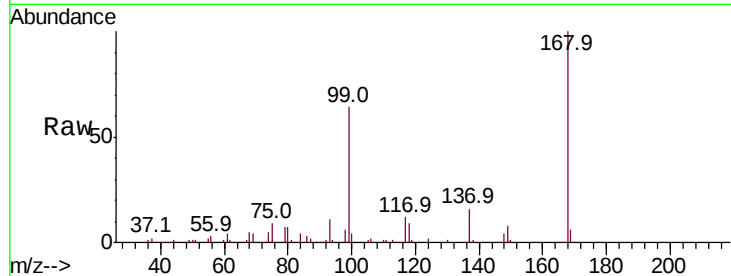
Tot Ion:117 Resp: 30895

Ion Ratio Lower Upper

117 100

119 5.4 77.2 115.8#

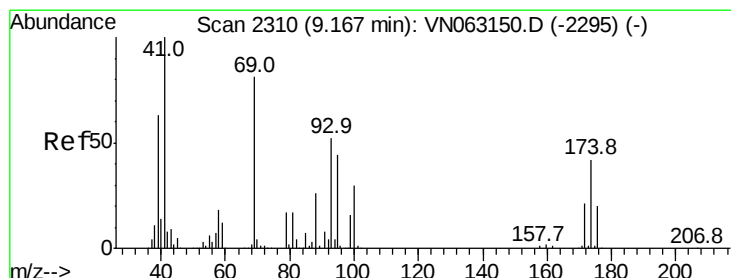
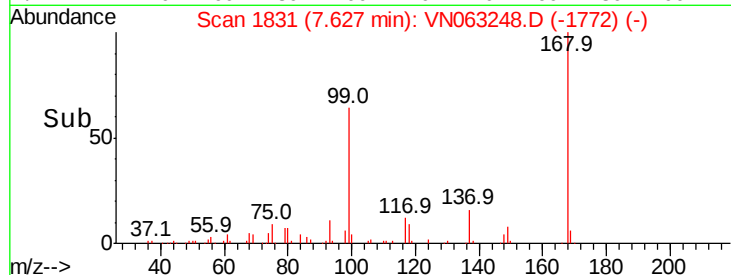
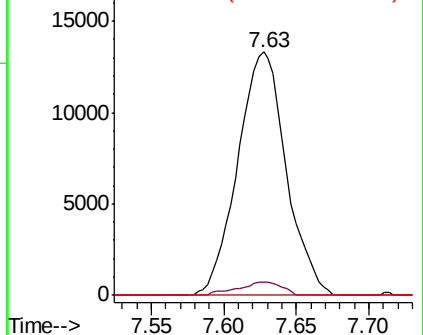
121 0.0 25.6 38.4#



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



#49

1,4-Dioxane

Concen: 1.002 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

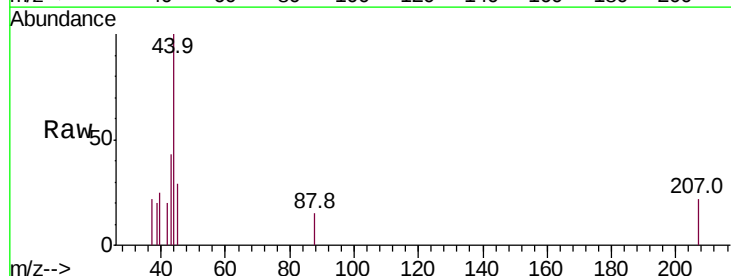
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

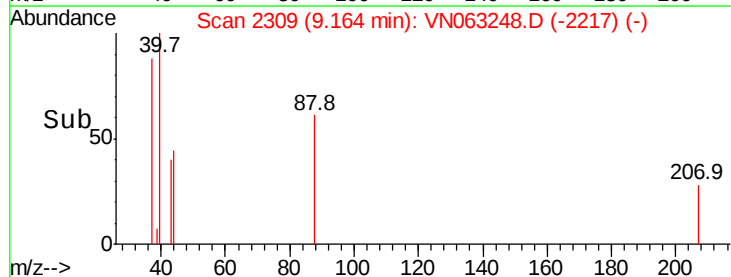
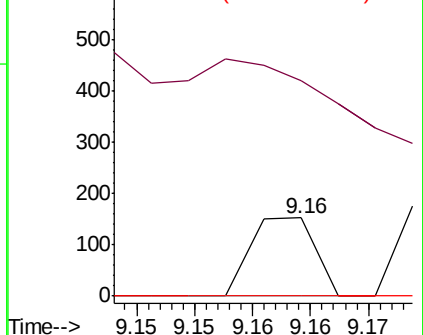
58 0.0 53.2 79.8#

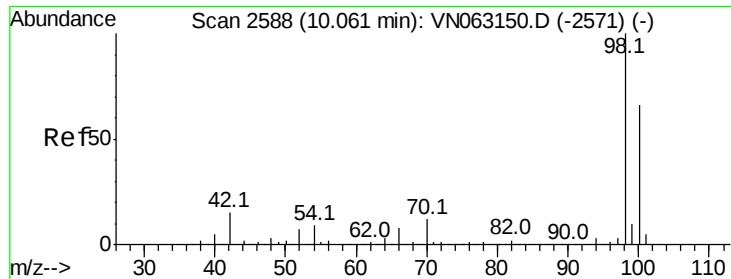


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 51.457 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

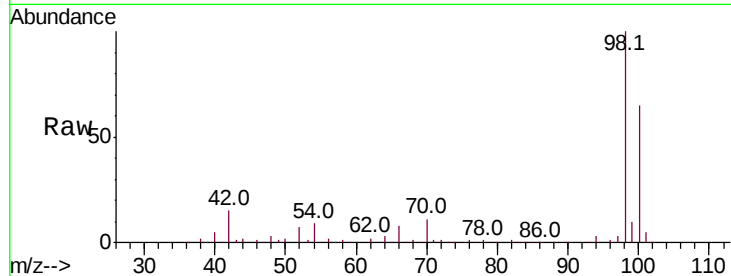
SA-PZ172I-20200902

Tot Ion: 98 Resp: 672942

Ion Ratio Lower Upper

98 100

100 65.3 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

400000

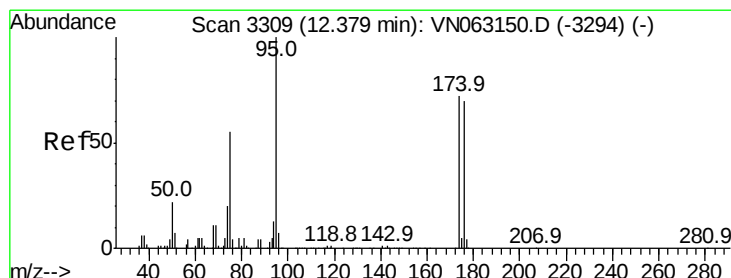
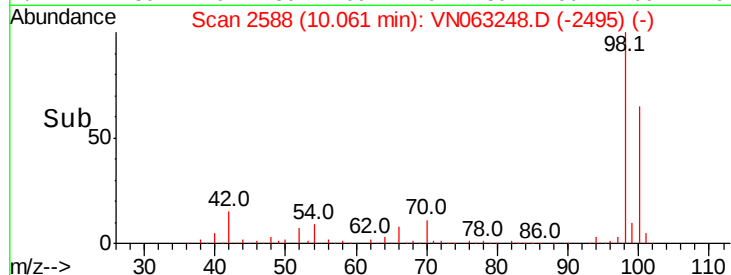
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.938 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

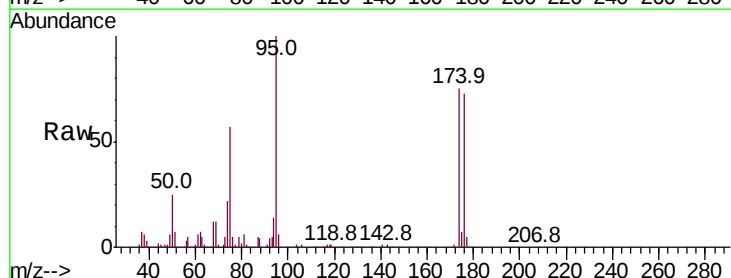
Tgt Ion: 95 Resp: 228452

Ion Ratio Lower Upper

95 100

174 75.0 0.0 143.8

176 73.5 0.0 138.4



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

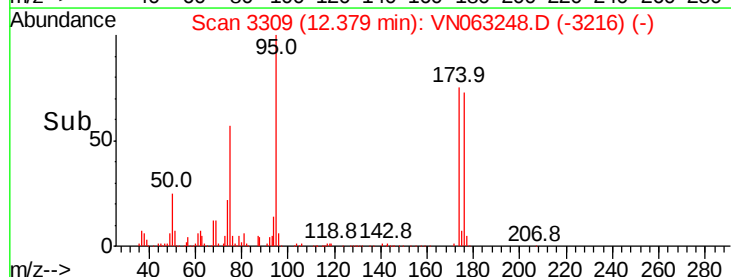
150000

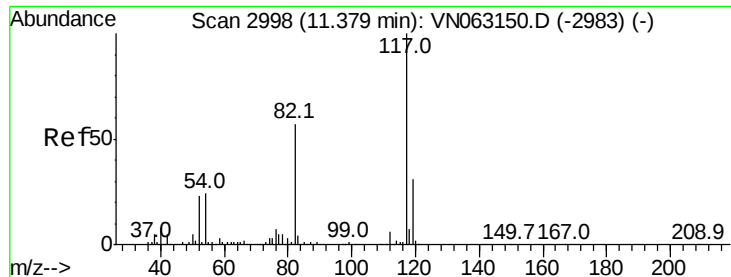
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ172I-20200902

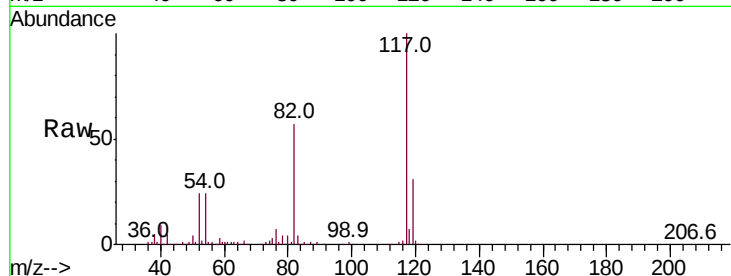
Tot Ion:117 Resp: 523441

Ion Ratio Lower Upper

117 100

82 56.9 45.4 68.0

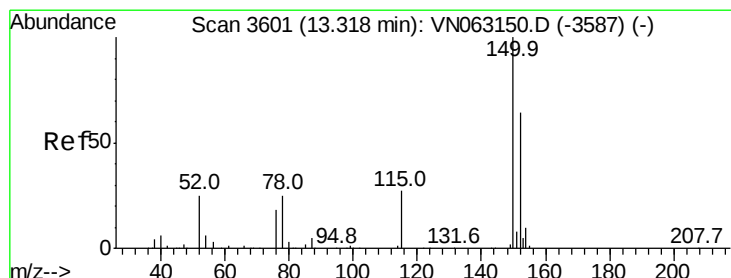
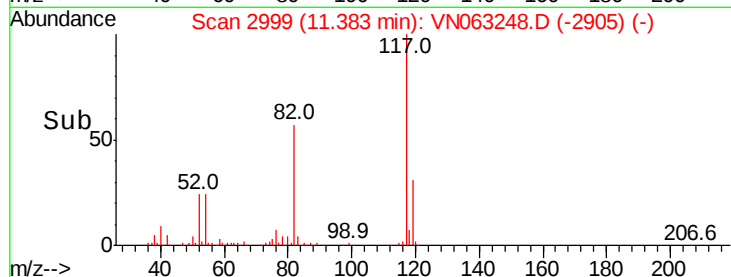
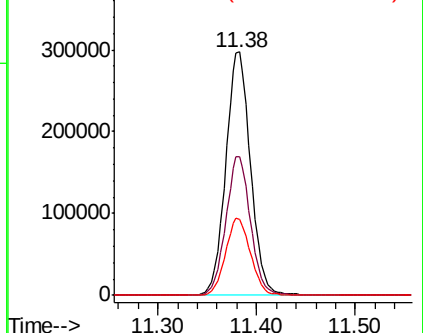
119 31.3 24.6 37.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

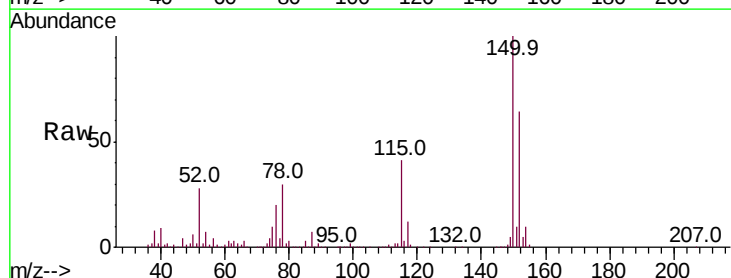
Tgt Ion:152 Resp: 202516

Ion Ratio Lower Upper

152 100

115 62.8 32.0 96.2

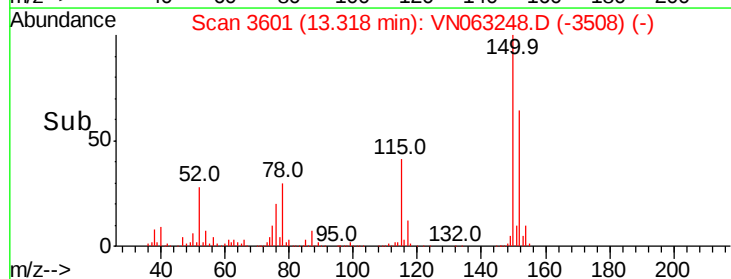
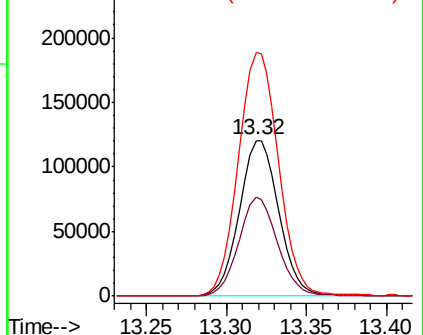
150 160.0 0.0 353.0

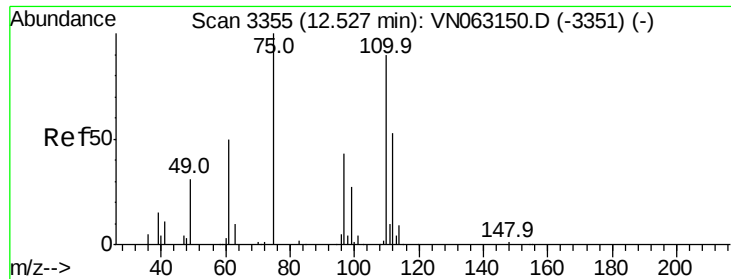


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.431 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

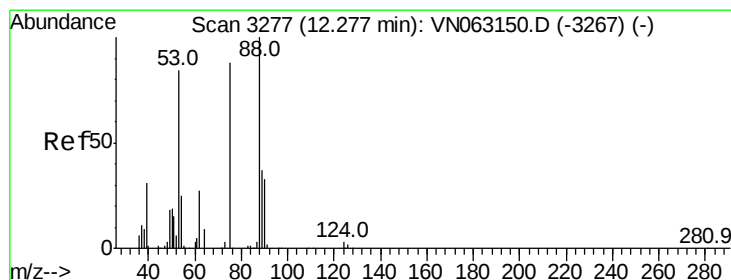
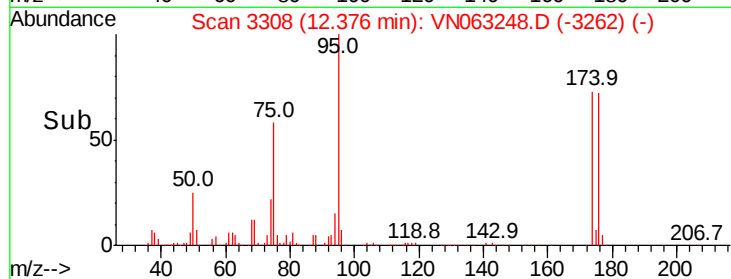
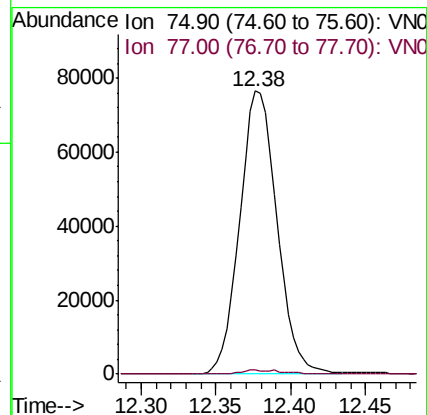
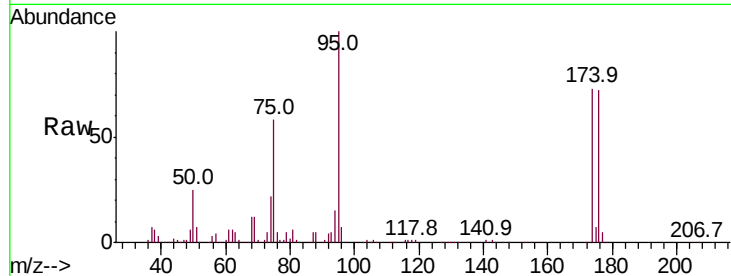
SA-PZ172I-20200902

Tot Ion: 75 Resp: 133021

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 80.801 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

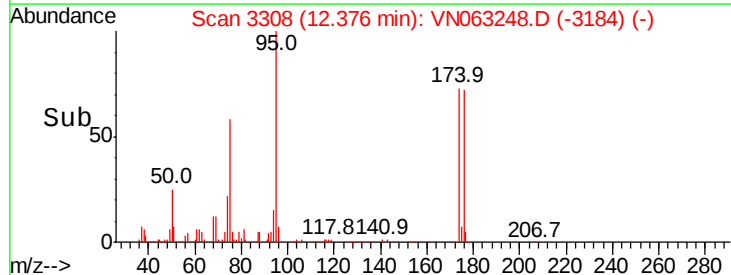
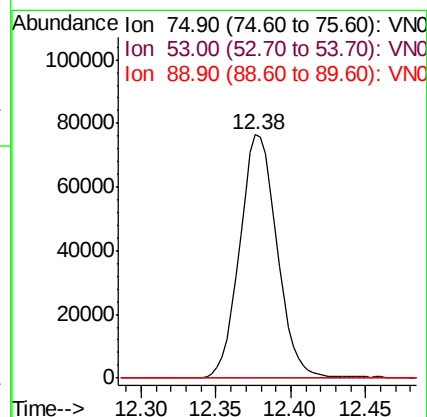
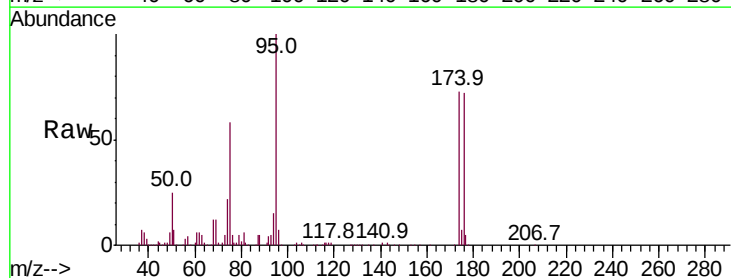
Tgt Ion: 75 Resp: 133021

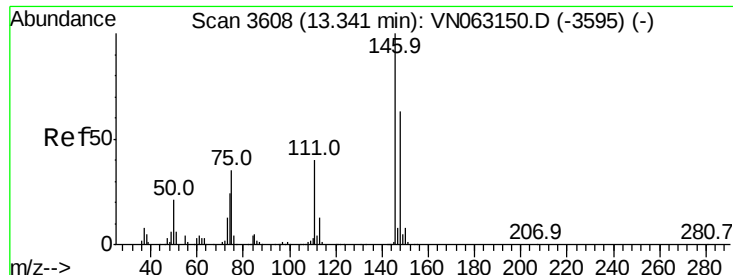
Ion Ratio Lower Upper

75 100

53 0.1 78.7 118.1#

89 0.0 35.3 52.9#





#88

1,4-Dichlorobenzene

Concen: 0.523 ug/l

RT: 13.34 min Scan# 3607

Delta R.T. -0.00 min

Lab File: VN063248.D

Acq: 4 Sep 2020 15:25

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ172I-20200902

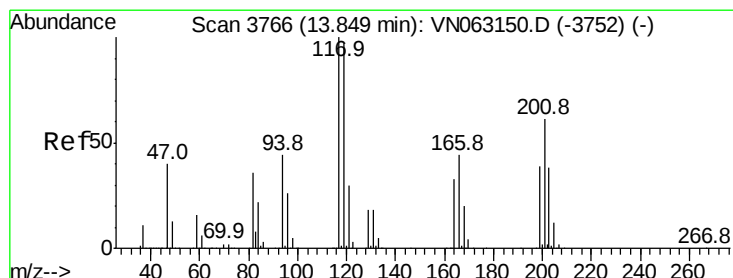
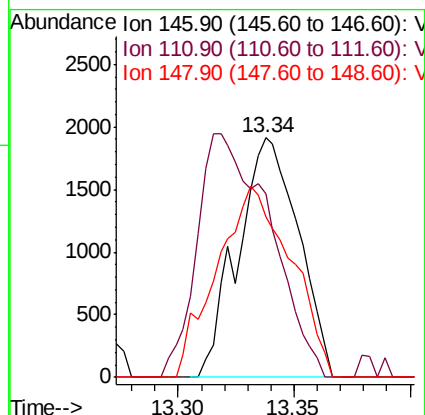
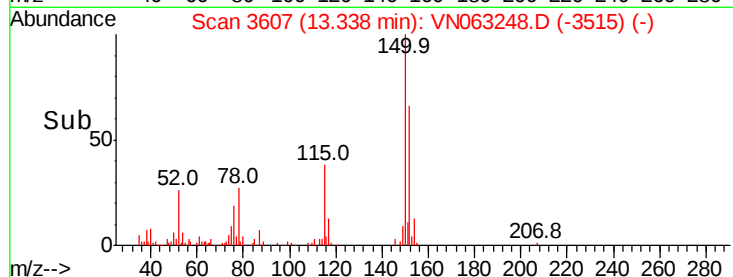
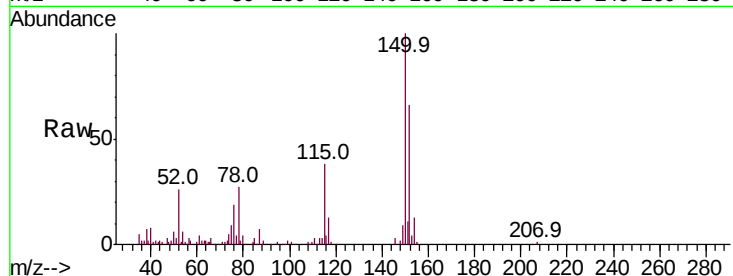
Tot Ion:146 Resp: 3498

Ion Ratio Lower Upper

146 100

111 0.0 20.5 61.5#

148 96.8 31.9 95.7#



#90

Hexachloroethane

Concen: 1.282 ug/l

RT: 13.93 min Scan# 3791

Delta R.T. 0.08 min

Lab File: VN063248.D

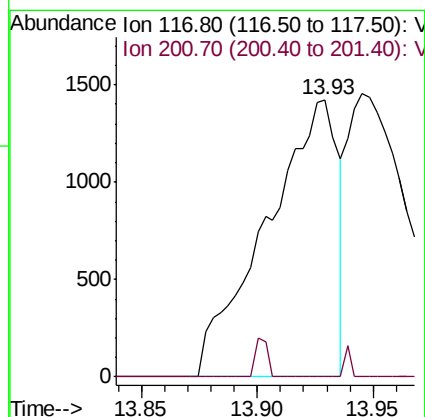
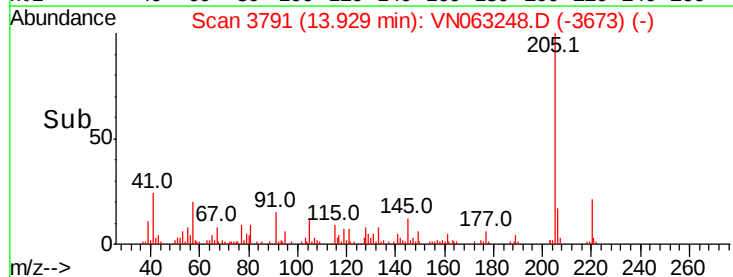
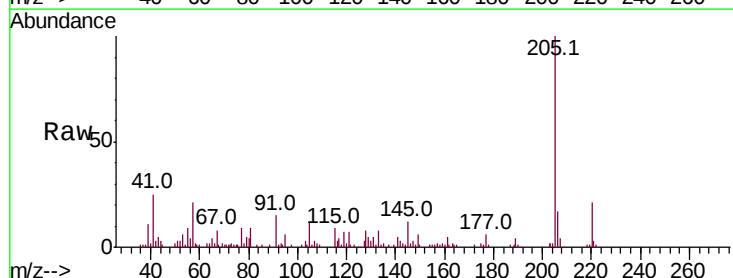
Acq: 4 Sep 2020 15:25

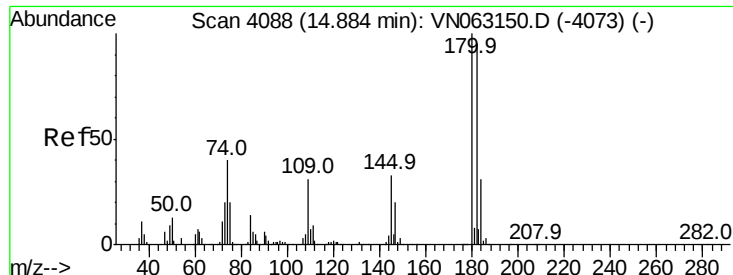
Tgt Ion:117 Resp: 3045

Ion Ratio Lower Upper

117 100

201 0.0 30.6 92.0#

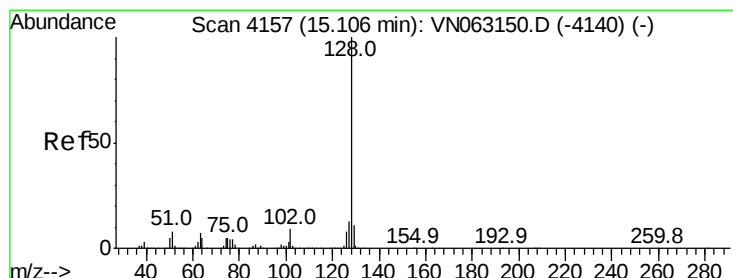
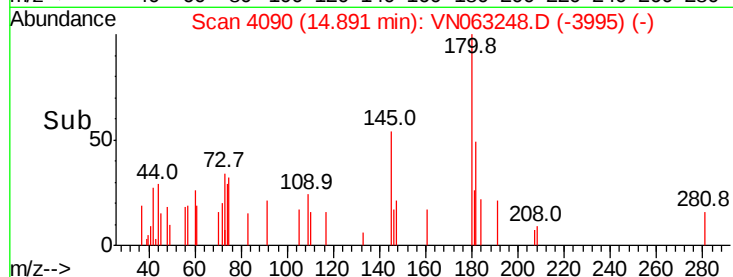
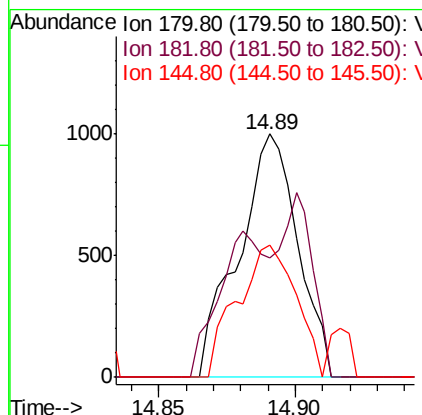
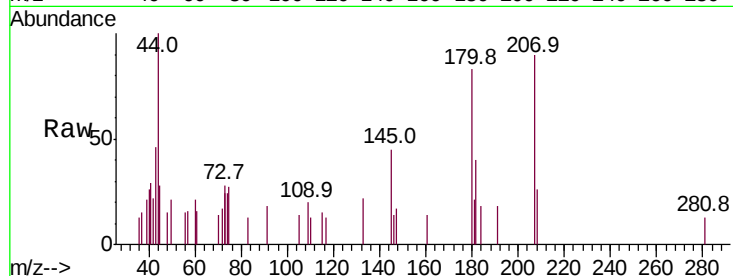




#93
 1,2,4-Trichlorobenzene
 Concen: 0.430 ug/l
 RT: 14.89 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN063248.D
 Acq: 4 Sep 2020 15:25

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ172I-20200902

Tot Ion	Ratio	Lower	Upper
180	100		
182	49.4	47.5	142.5
145	54.3	16.6	49.8#



#95
 Naphthalene
 Concen: 0.214 ug/l
 RT: 15.11 min Scan# 4157
 Delta R.T. 0.00 min
 Lab File: VN063248.D
 Acq: 4 Sep 2020 15:25

Tgt Ion	Ratio	Lower	Upper
128	100		
127	5.2	10.5	15.7#
129	0.0	8.6	13.0#

