

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090320\
 Data File : VN063231.D
 Acq On : 3 Sep 2020 19:36
 Operator : JC/MD
 Sample : L3902-11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ145D-20200901

Quant Time: Sep 04 04:06:20 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	279916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	547178	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	539545	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	204596	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	223030	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
35) Dibromofluoromethane	7.55	113	173916	49.54	ug/l	0.00
Spiked Amount			Recovery	=	99.08%	
50) Toluene-d8	10.06	98	695279	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
62) 4-Bromofluorobenzene	12.38	95	233648	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	

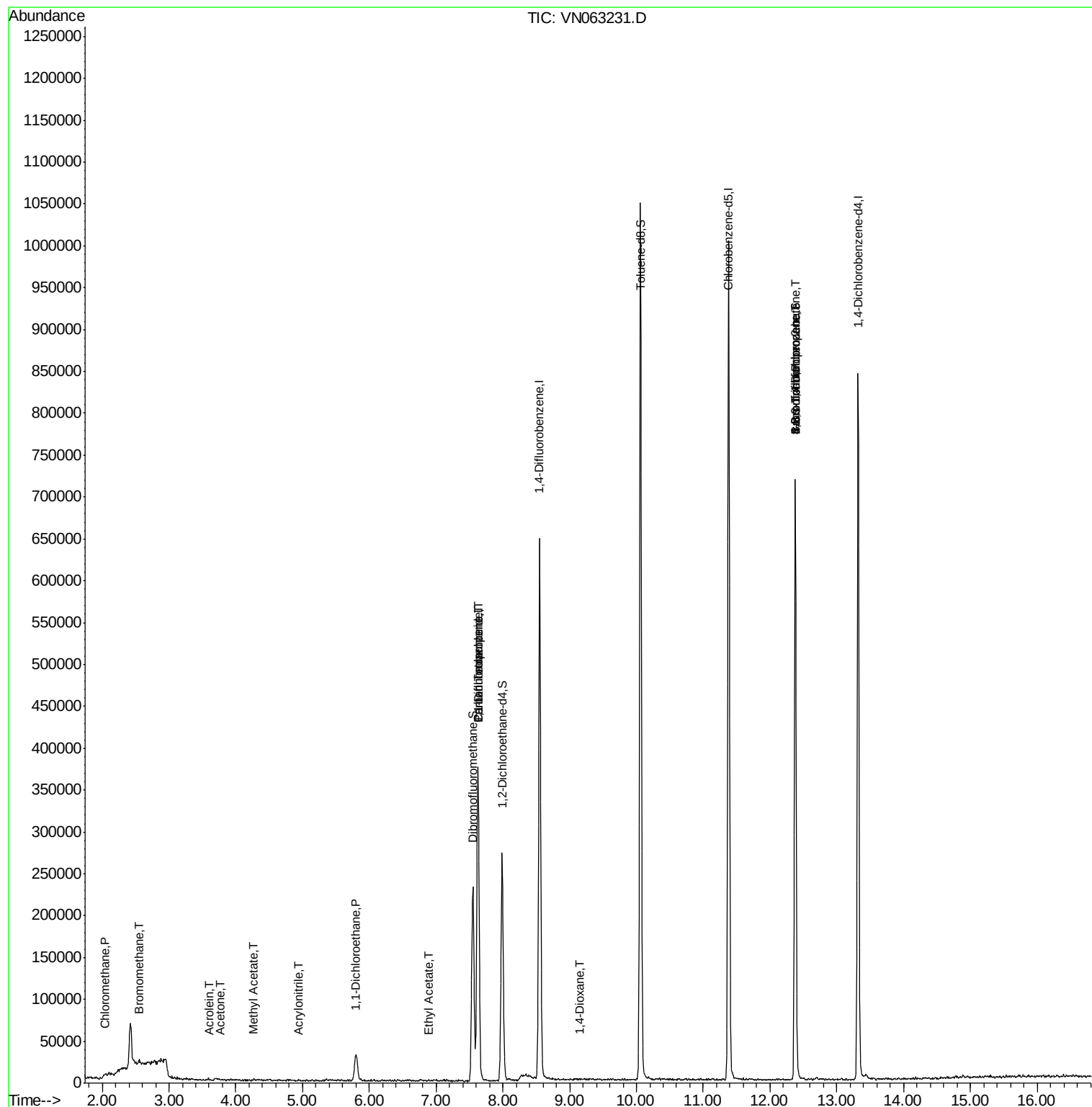
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1606	0.400	ug/l #	71
5) Bromomethane	2.55	94	1008	0.270	ug/l #	73
7) Trichlorofluoromethane	2.97	101	114	Below Cal	#	19
13) Acrolein	3.61	56	70	16.076	ug/l #	1
15) Acrylonitrile	4.94	53	110	2.473	ug/l #	38
16) Acetone	3.77	43	406	0.312	ug/l #	1
18) Methyl Acetate	4.27	43	691	0.207	ug/l #	70
20) Methylene Chloride	4.50	84	292	Below Cal	#	16
24) 1,1-Dichloroethane	5.80	63	46355	6.880	ug/l	98
31) Cyclohexane	7.63	56	8335	Below Cal	#	42
36) 1,1-Dichloropropene	7.63	75	27377	5.204	ug/l #	50
37) Ethyl Acetate	6.87	43	280	0.436	ug/l #	70
38) Carbon Tetrachloride	7.63	117	31774	5.956	ug/l #	16
49) 1,4-Dioxane	9.16	88	150	2.508	ug/l #	8
71) Bromoform	12.37	173	660	0.241	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	134723	33.514	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	134723	81.003	ug/l #	10

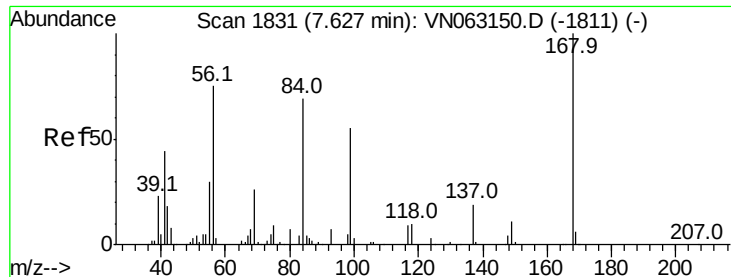
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

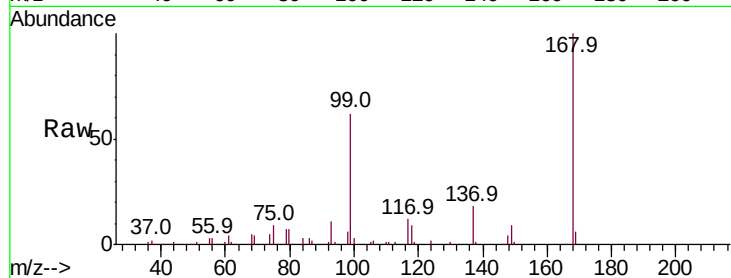
SA-PZ145D-20200901

Tot Ion:168 Resp: 279916

Ion Ratio Lower Upper

168 100

99 62.3 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

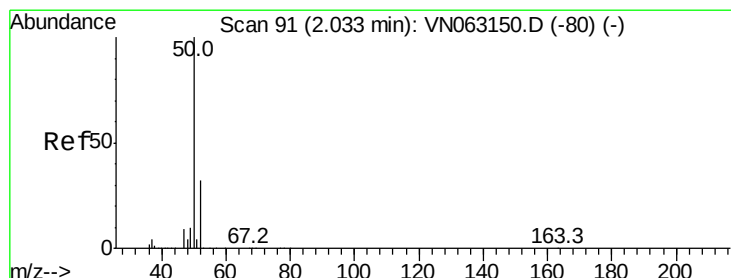
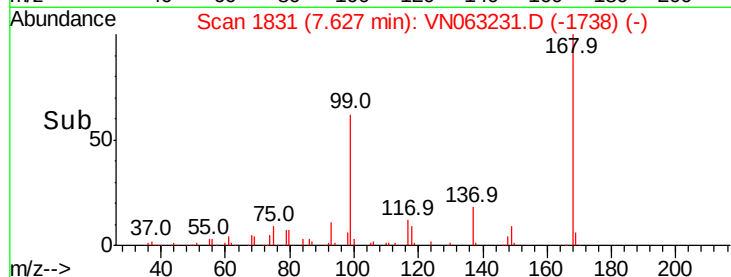
7.63

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.400 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063231.D

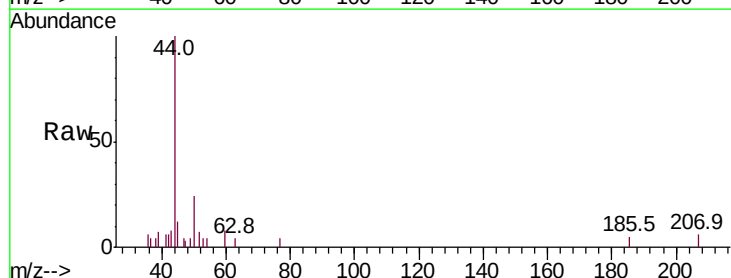
Acq: 3 Sep 2020 19:36

Tgt Ion: 50 Resp: 1606

Ion Ratio Lower Upper

50 100

52 15.7 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

1200

1000

800

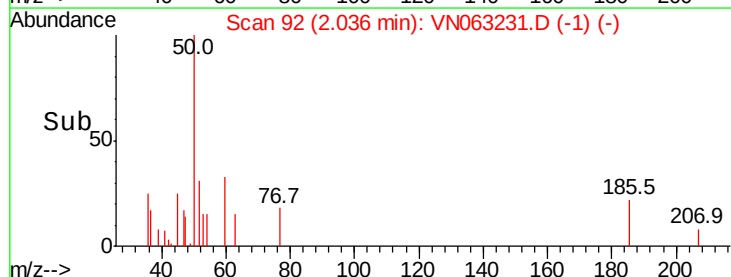
600

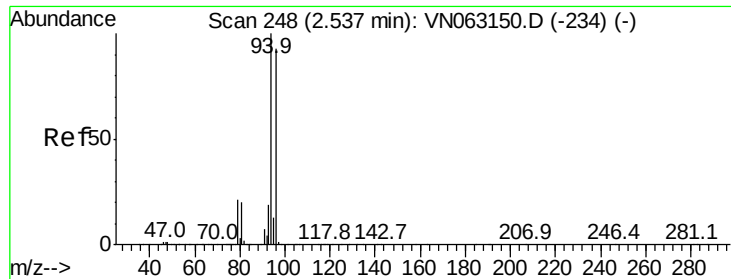
400

200

0

Time-->





#5

Bromomethane

Concen: 0.270 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

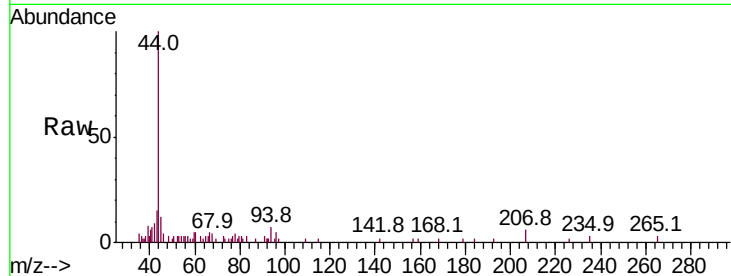
SA-PZ145D-20200901

Tot Ion: 94 Resp: 1008

Ion Ratio Lower Upper

94 100

96 67.0 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

2.55

600

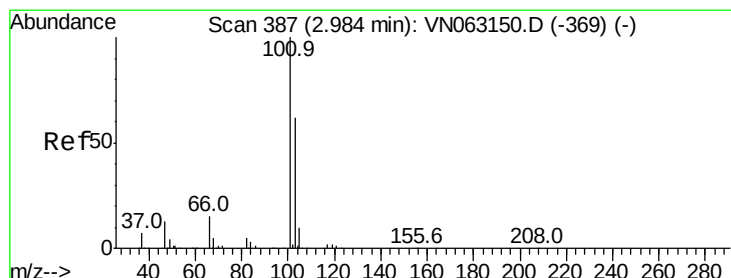
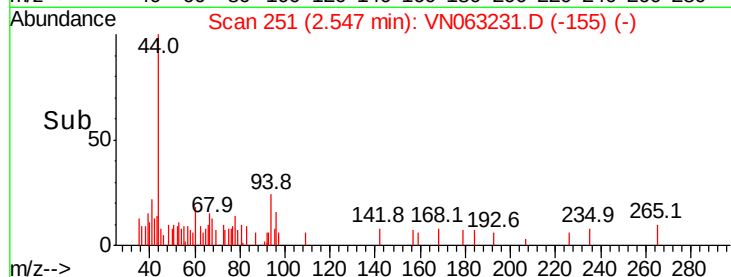
400

200

0

2.52 2.54 2.56 2.58

Time-->



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.97 min Scan# 382

Delta R.T. -0.02 min

Lab File: VN063231.D

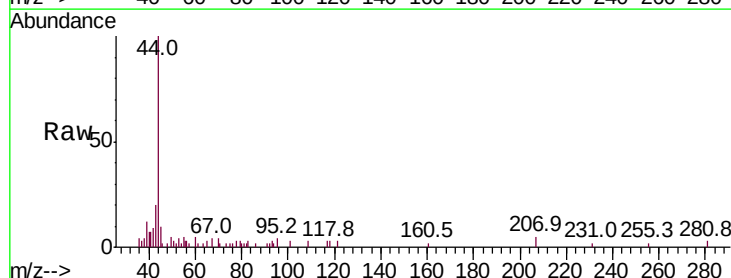
Acq: 3 Sep 2020 19:36

Tgt Ion:101 Resp: 114

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

2.97

250

200

150

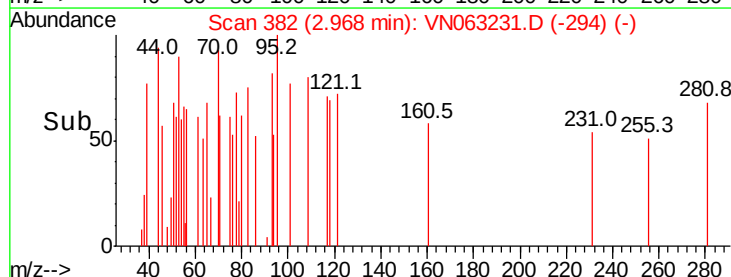
100

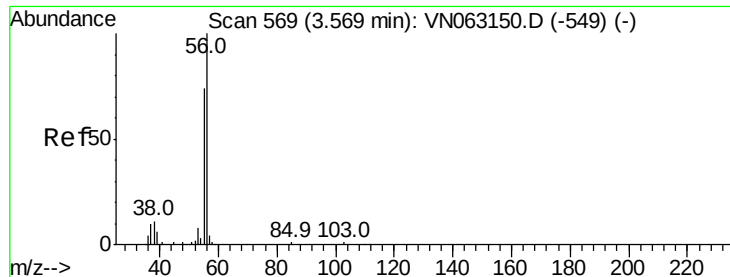
50

0

2.96 2.97 2.98

Time-->





#13

Acrolein

Concen: 16.076 ug/l

RT: 3.61 min Scan# 581

Delta R.T. 0.04 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

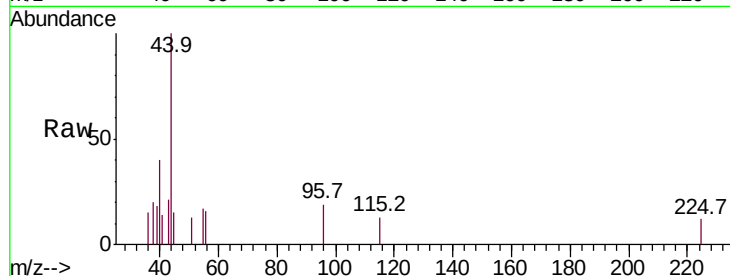
SA-PZ145D-20200901

Tot Ion: 56 Resp: 70

Ion Ratio Lower Upper

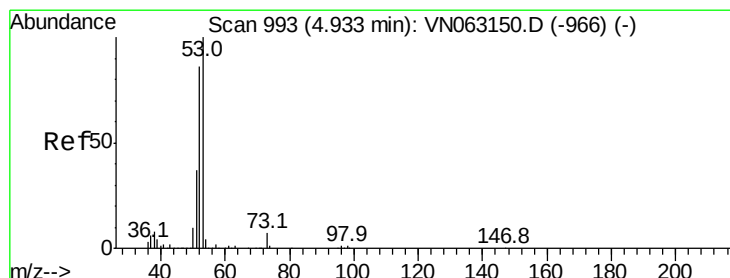
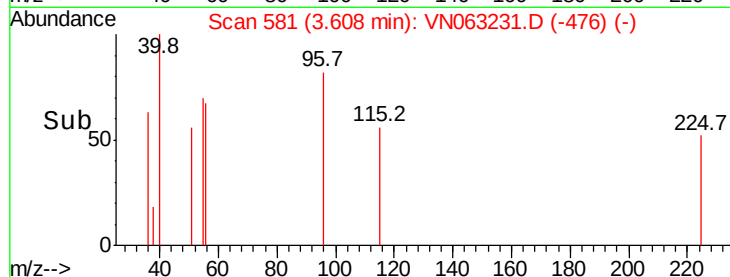
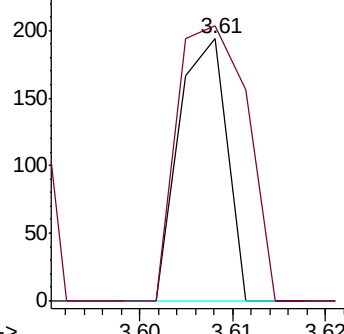
56 100

55 152.9 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: 2.473 ug/l

RT: 4.94 min Scan# 994

Delta R.T. 0.00 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

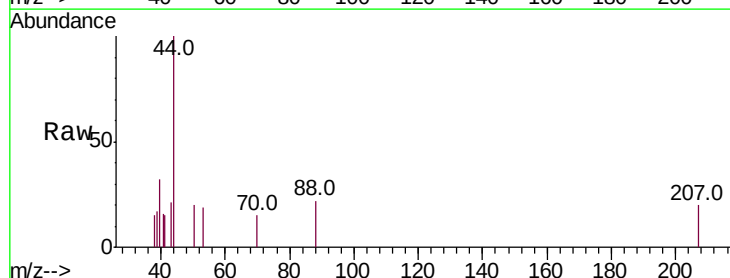
Tgt Ion: 53 Resp: 110

Ion Ratio Lower Upper

53 100

52 28.2 67.2 100.8#

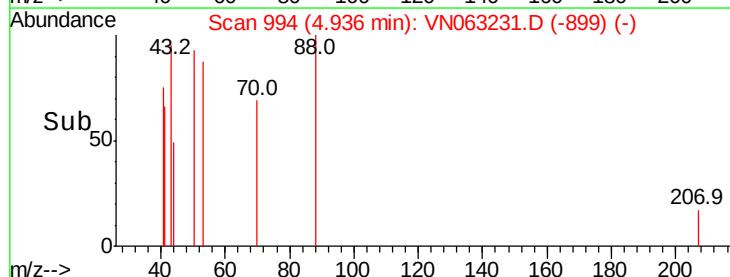
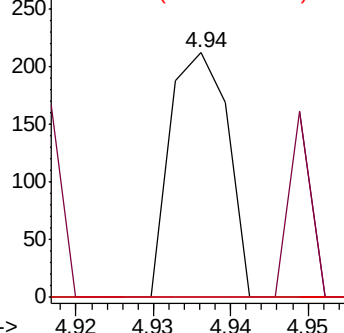
51 0.0 30.2 45.4#

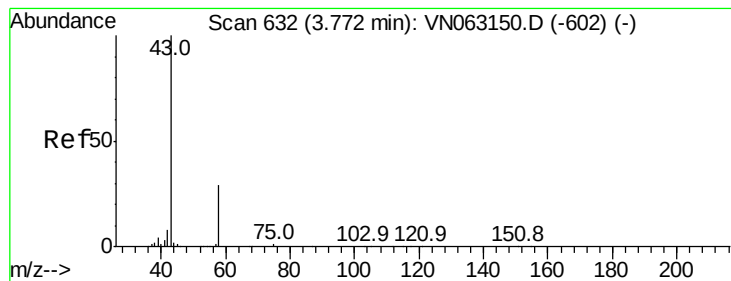


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#16

Acetone

Concen: 0.312 ug/l

RT: 3.77 min Scan# 631

Delta R.T. -0.00 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

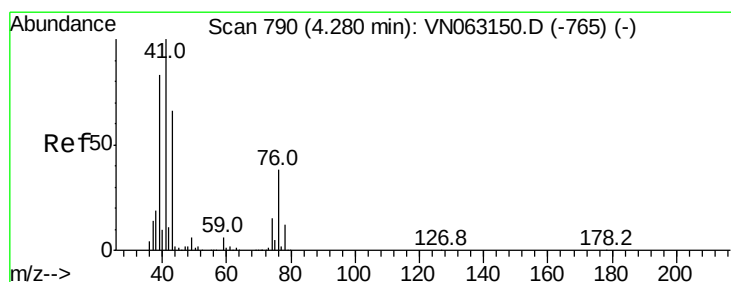
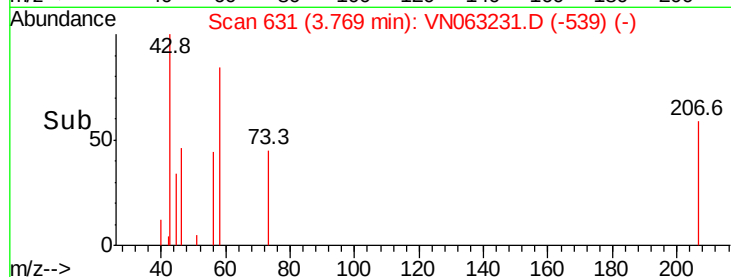
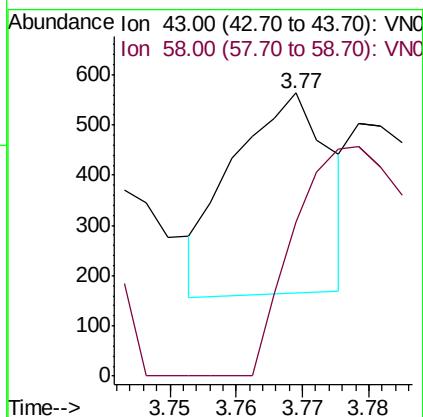
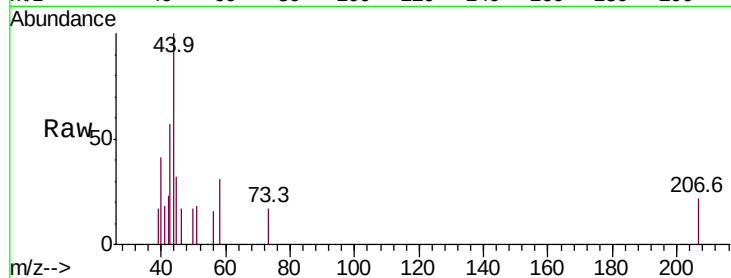
SA-PZ145D-20200901

Tot Ion: 43 Resp: 406

Ion Ratio Lower Upper

43 100

58 107.7 23.1 34.7#



#18

Methyl Acetate

Concen: 0.207 ug/l

RT: 4.27 min Scan# 787

Delta R.T. -0.01 min

Lab File: VN063231.D

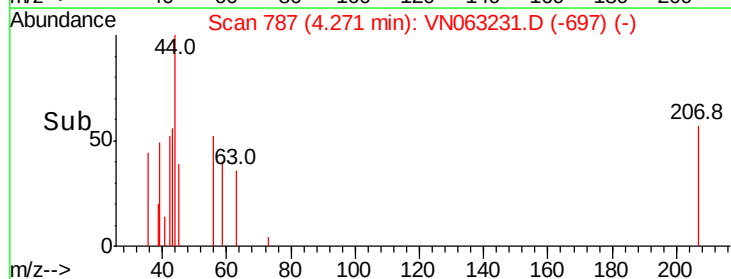
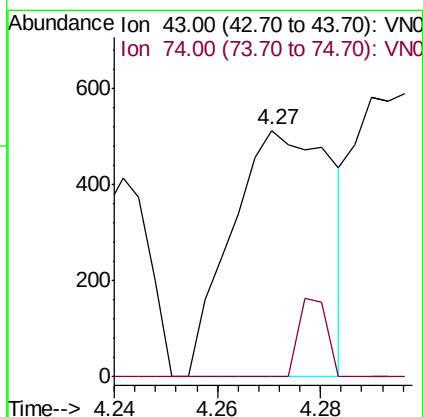
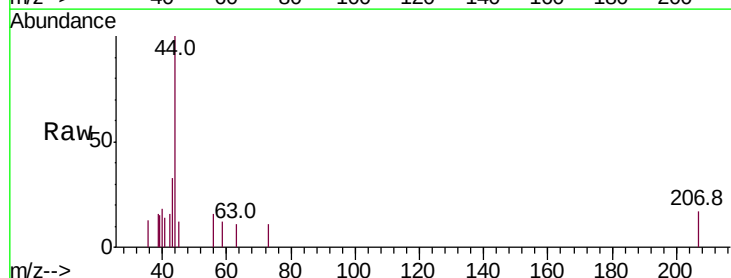
Acq: 3 Sep 2020 19:36

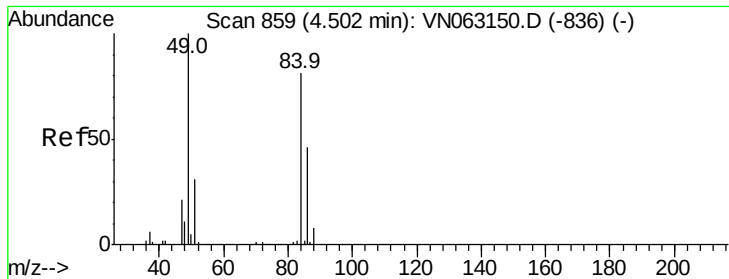
Tgt Ion: 43 Resp: 691

Ion Ratio Lower Upper

43 100

74 8.8 19.0 28.6#

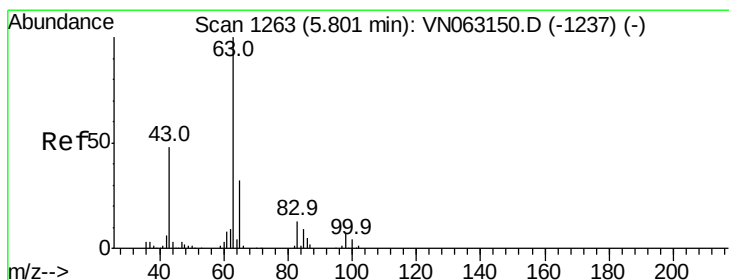
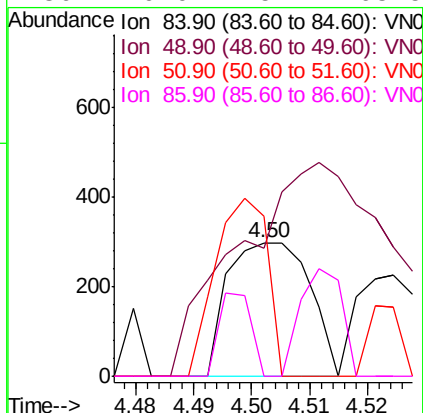
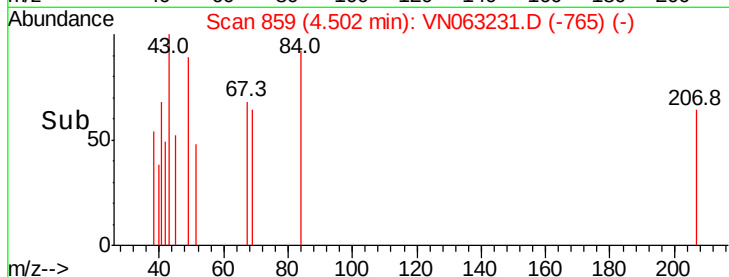
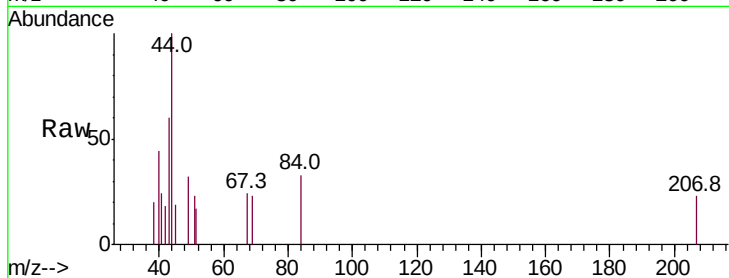




#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN063231.D
Acq: 3 Sep 2020 19:36

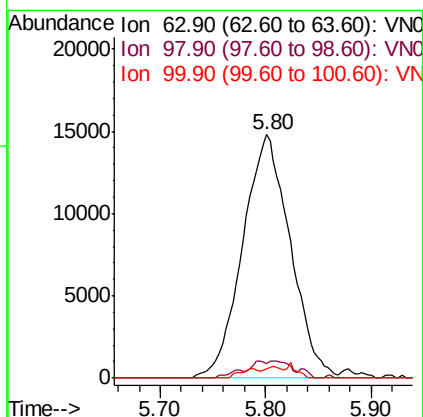
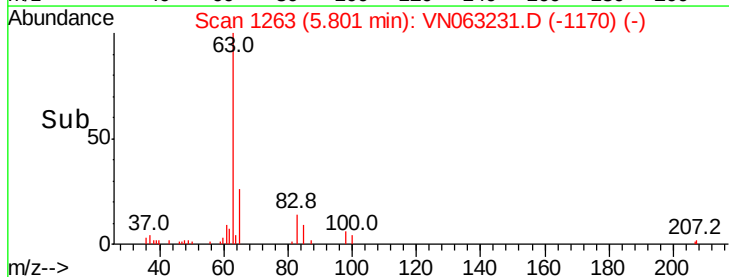
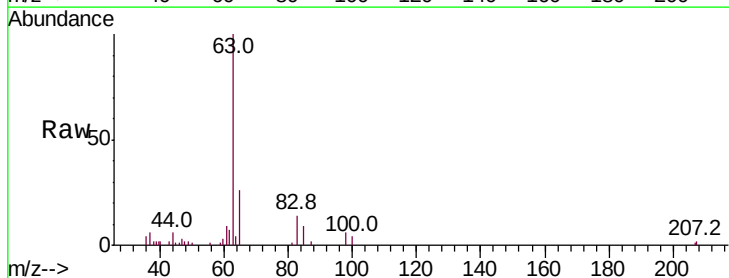
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ145D-20200901

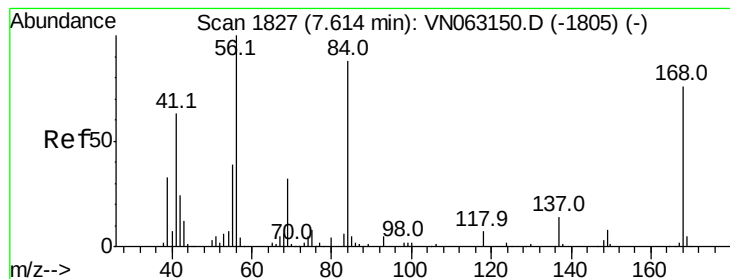
Tot Ion:	84	Resp:	292
Ion	Ratio	Lower	Upper
84	100		
49	44.0	98.4	147.6#
51	120.1	30.4	45.6#
86	0.0	45.7	68.5#



#24
1,1-Dichloroethane
Concen: 6.880 ug/l
RT: 5.80 min Scan# 1263
Delta R.T. 0.00 min
Lab File: VN063231.D
Acq: 3 Sep 2020 19:36

Tgt Ion:	63	Resp:	46355
Ion	Ratio	Lower	Upper
63	100		
98	6.2	3.4	10.1
100	3.8	2.3	6.8





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20200901

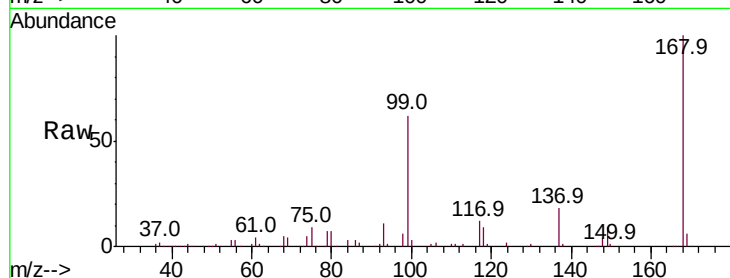
Tot Ion: 56 Resp: 8335

Ion Ratio Lower Upper

56 100

69 121.2 25.4 38.0#

84 107.5 70.2 105.4#

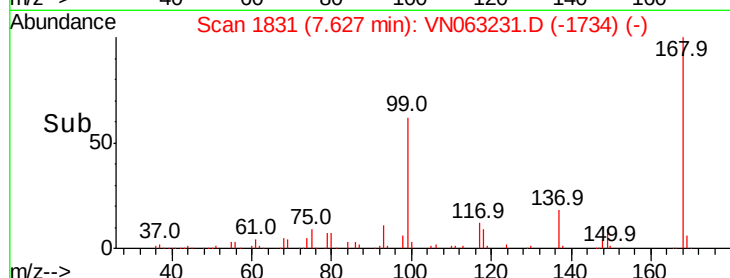


Abundance Ion 56.00 (55.70 to 56.70): VN063231.D (-1831) (-)

Ion 69.00 (68.70 to 69.70): VN063231.D (-1831) (-)

Ion 84.00 (83.70 to 84.70): VN063231.D (-1831) (-)

Time-->

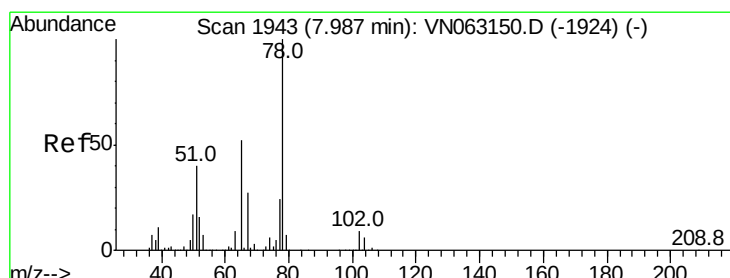


Abundance Ion 56.00 (55.70 to 56.70): VN063231.D (-1831) (-)

Ion 69.00 (68.70 to 69.70): VN063231.D (-1831) (-)

Ion 84.00 (83.70 to 84.70): VN063231.D (-1831) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.741 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063231.D

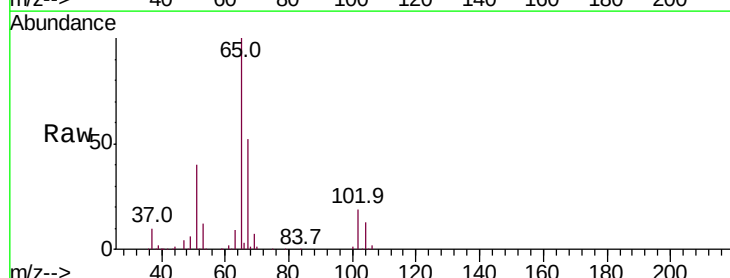
Acq: 3 Sep 2020 19:36

Tgt Ion: 65 Resp: 223030

Ion Ratio Lower Upper

65 100

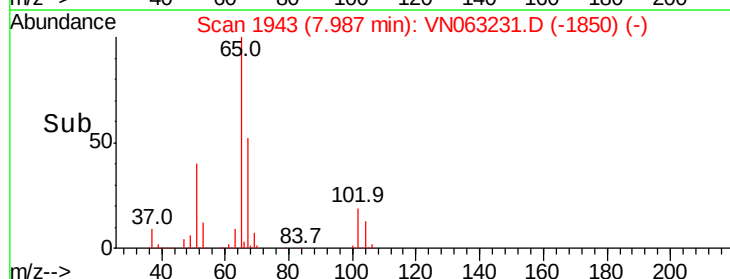
67 51.8 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VN063231.D (-1943) (-)

Ion 66.90 (66.60 to 67.60): VN063231.D (-1943) (-)

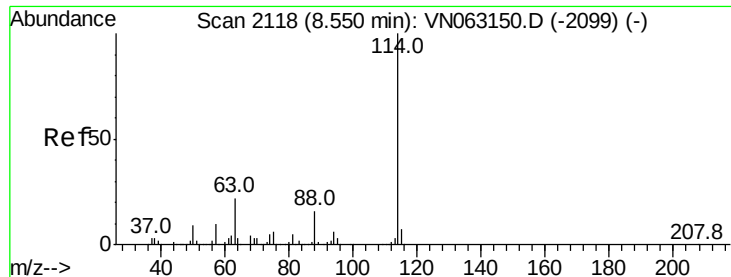
Time-->



Abundance Ion 64.90 (64.60 to 65.60): VN063231.D (-1943) (-)

Ion 66.90 (66.60 to 67.60): VN063231.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: VN063231.D

Acq: 3 Sep 2020 19:36

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ClientSampleId :

SA-PZ145D-20200901

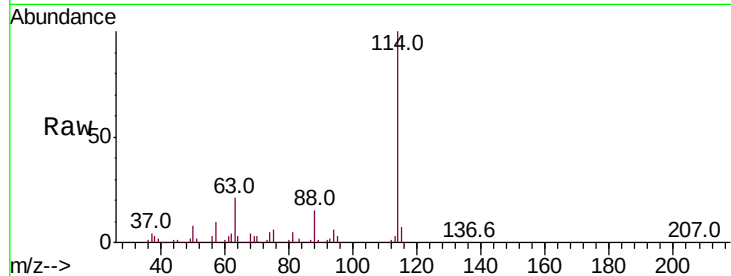
Tot Ion:114 Resp: 547178

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.0

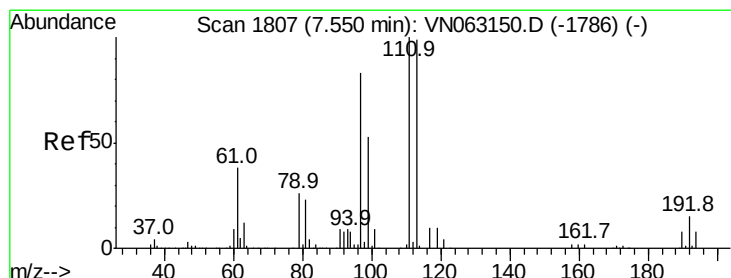
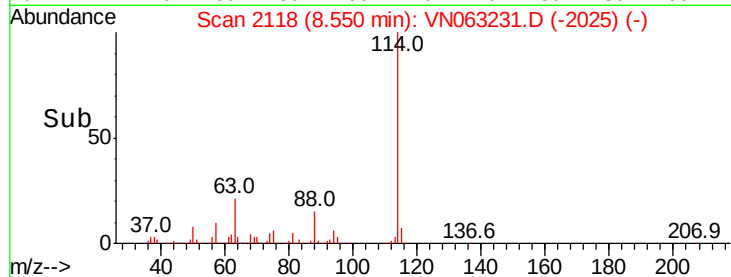
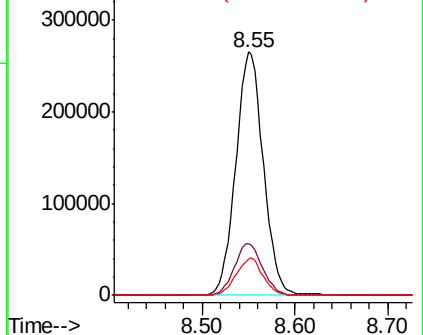
88 15.0 0.0 31.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 49.543 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

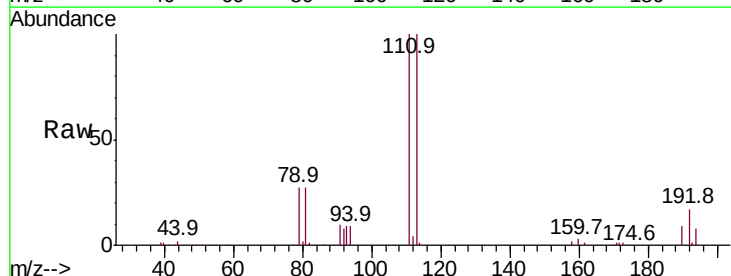
Tgt Ion:113 Resp: 173916

Ion Ratio Lower Upper

113 100

111 101.5 80.7 121.1

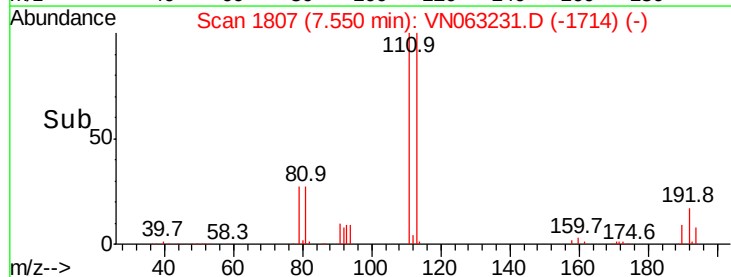
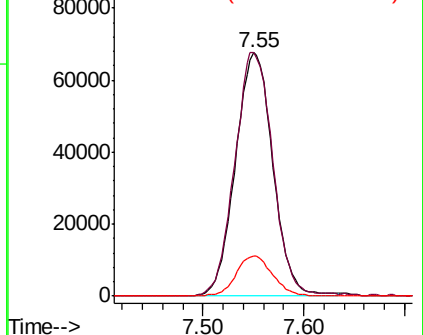
192 16.0 12.6 19.0

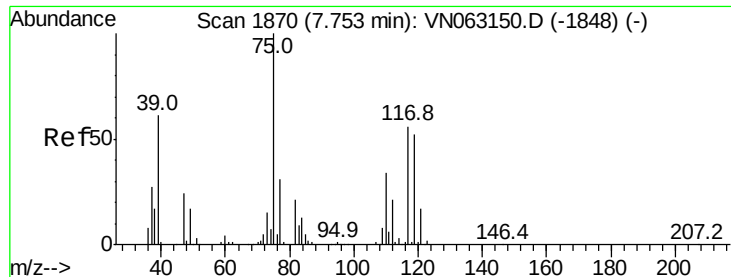


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

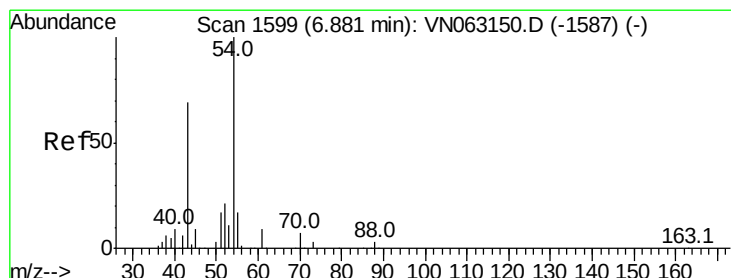
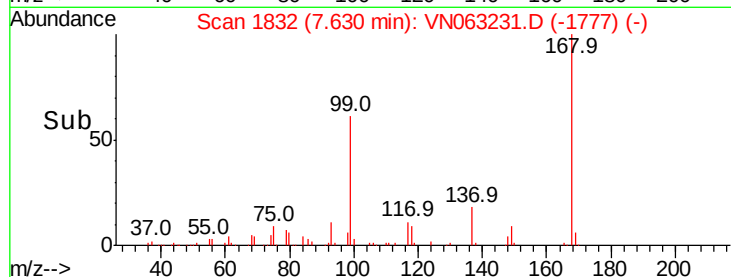
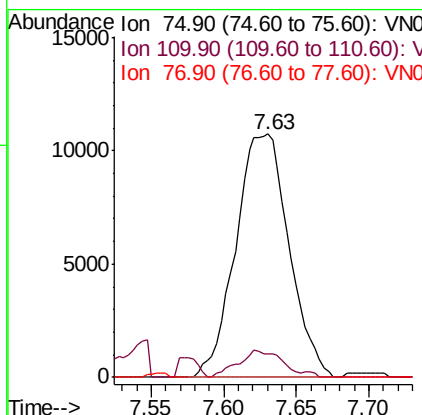
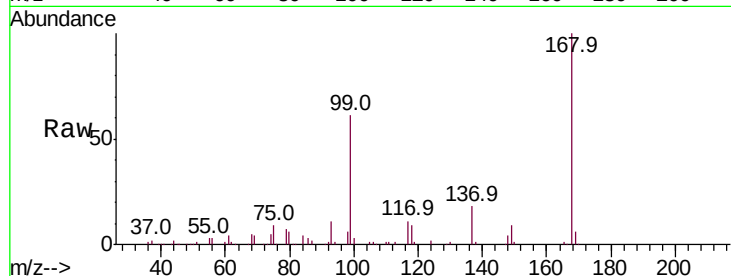




#36
 1,1-Dichloropropene
 Concen: 5.204 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN063231.D
 Acq: 3 Sep 2020 19:36

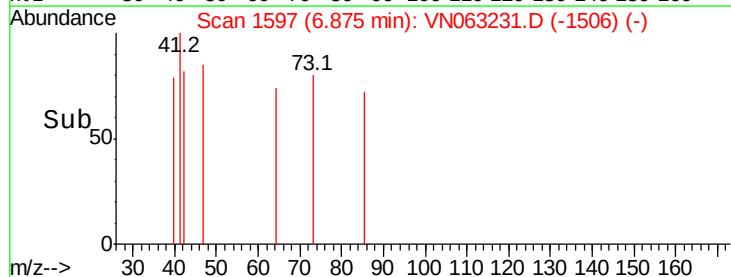
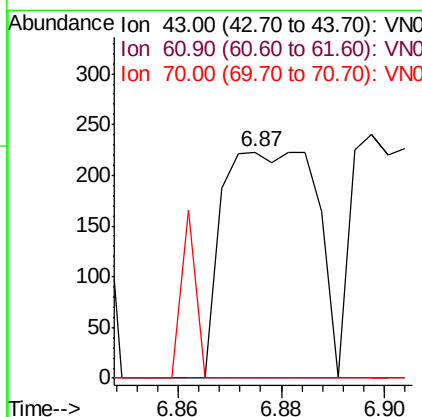
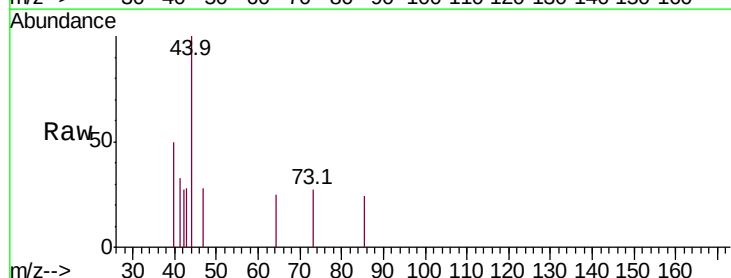
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ145D-20200901

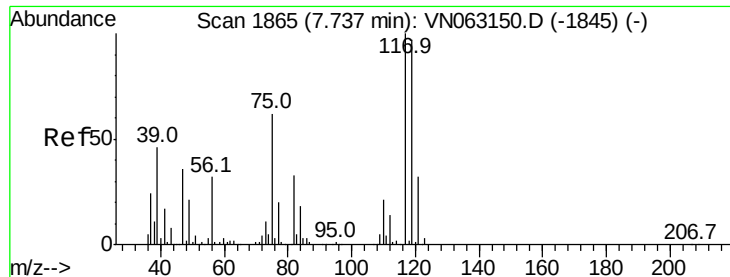
Tot Ion: 75 Resp: 27377
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.6 49.8#
 77 0.0 25.4 38.2#



#37
 Ethyl Acetate
 Concen: 0.436 ug/l
 RT: 6.87 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: VN063231.D
 Acq: 3 Sep 2020 19:36

Tgt Ion: 43 Resp: 280
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.2 15.4#
 70 11.4 3.0 4.6#





#38

Carbon Tetrachloride

Concen: 5.956 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20200901

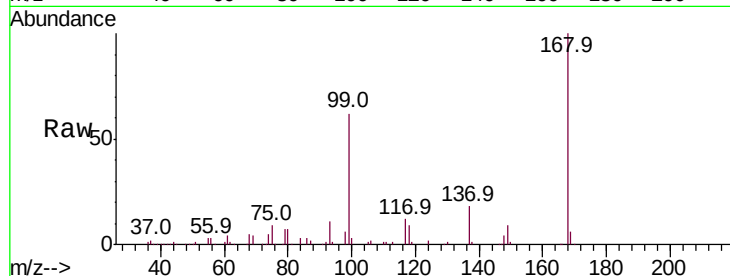
Tot Ion:117 Resp: 31774

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

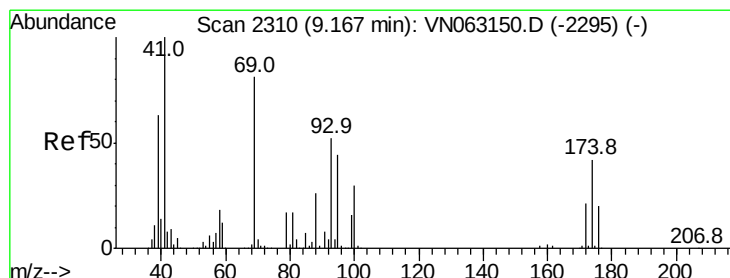
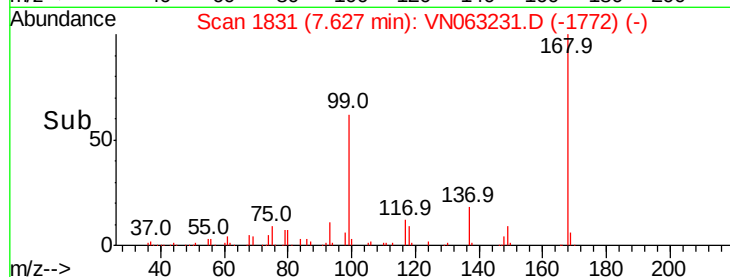
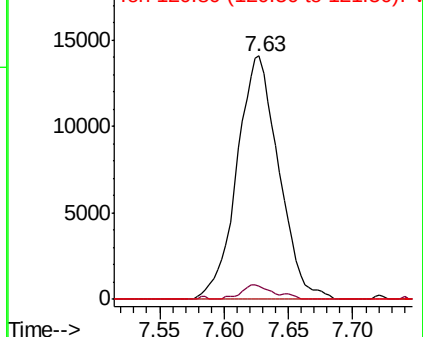
121 0.0 25.6 38.4#



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



#49

1,4-Dioxane

Concen: 2.508 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

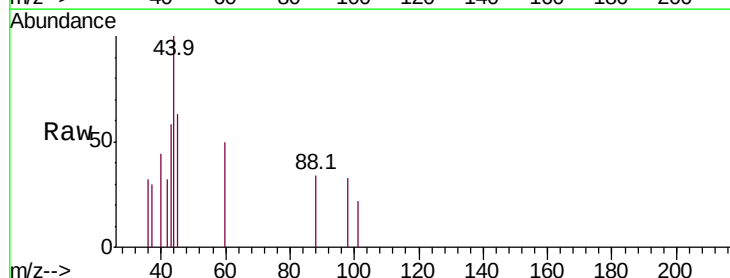
Tgt Ion: 88 Resp: 150

Ion Ratio Lower Upper

88 100

43 168.7 28.6 42.8#

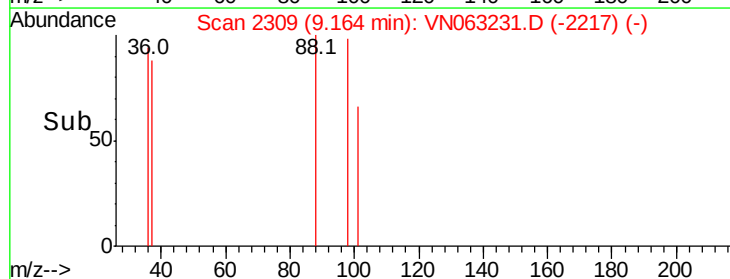
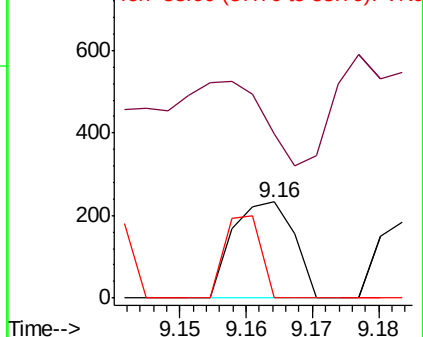
58 50.7 53.2 79.8#

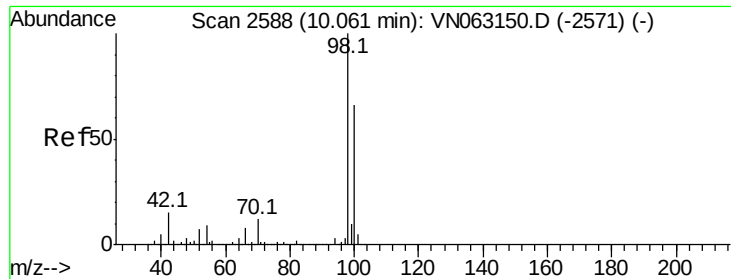


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 51.458 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

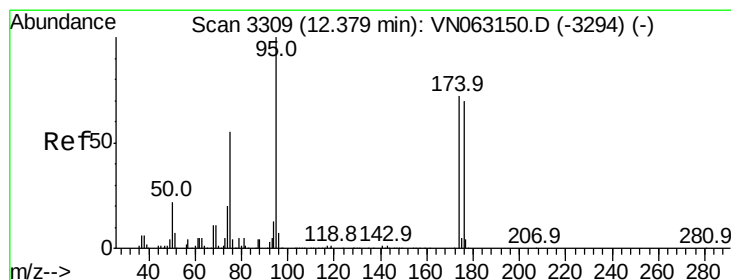
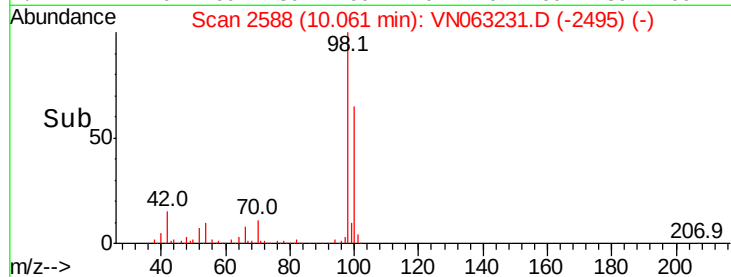
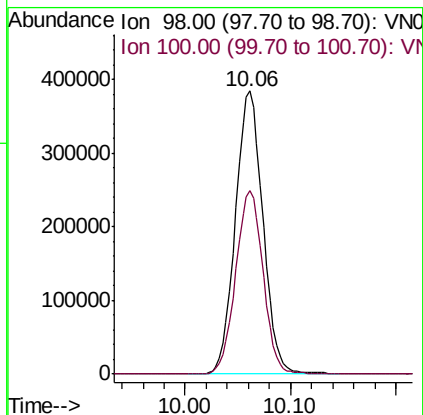
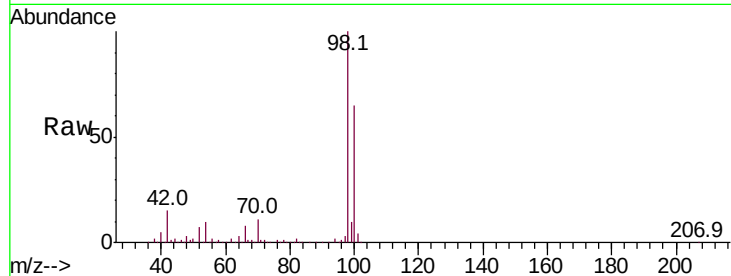
SA-PZ145D-20200901

Tot Ion: 98 Resp: 695279

Ion Ratio Lower Upper

98 100

100 64.8 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 49.434 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

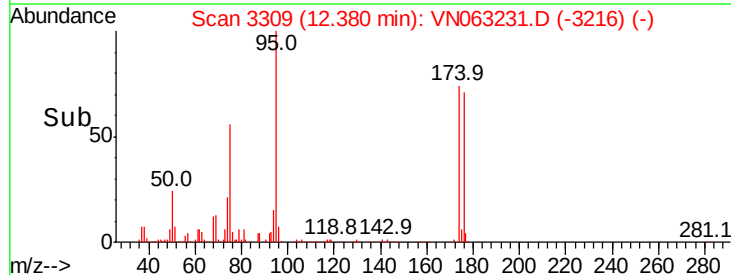
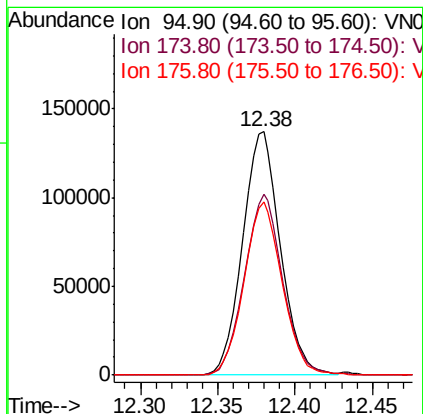
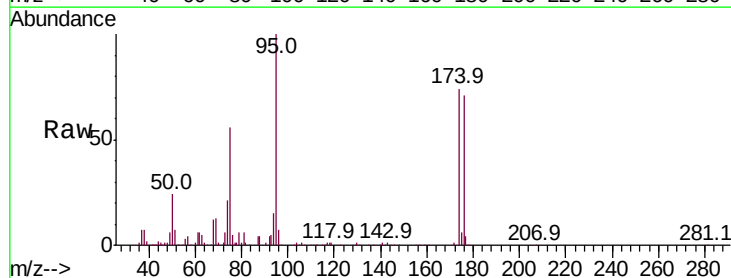
Tgt Ion: 95 Resp: 233648

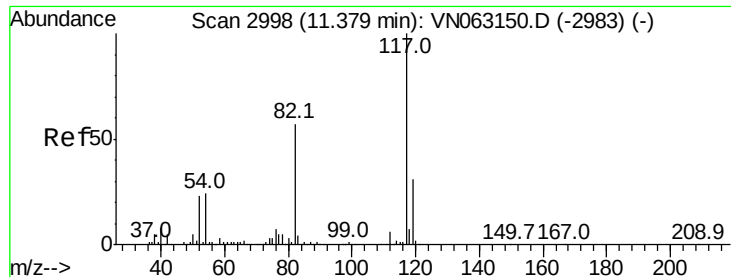
Ion Ratio Lower Upper

95 100

174 75.1 0.0 143.8

176 71.9 0.0 138.4

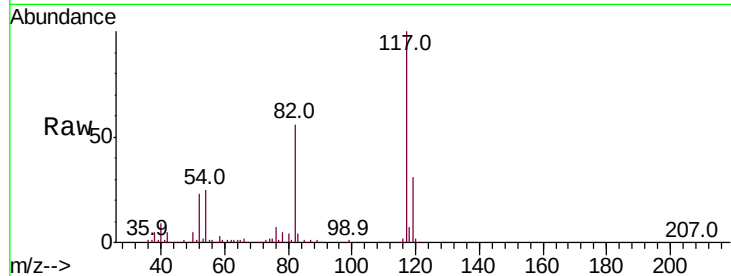




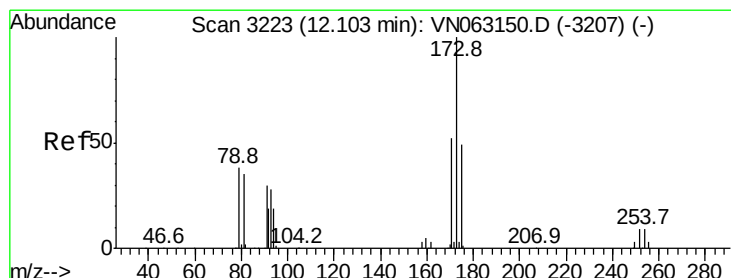
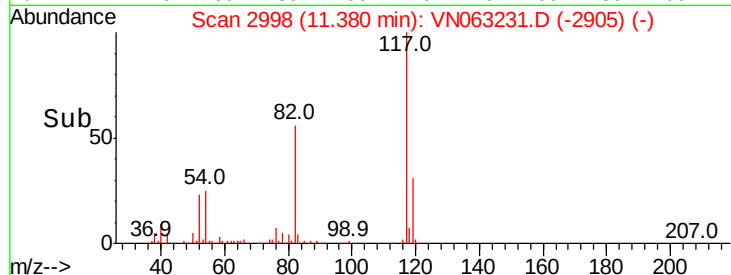
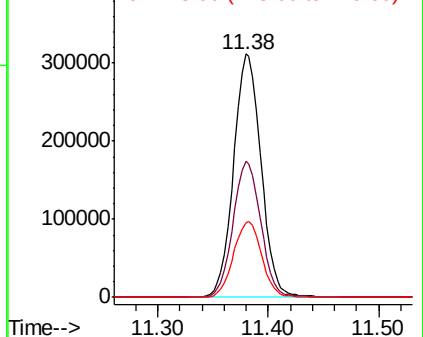
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063231.D
Acq: 3 Sep 2020 19:36

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ145D-20200901

Tot Ion:117 Resp: 539545
Ion Ratio Lower Upper
117 100
82 56.0 45.4 68.0
119 30.6 24.6 37.0

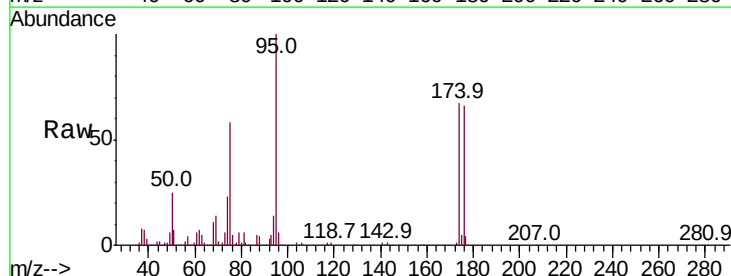


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

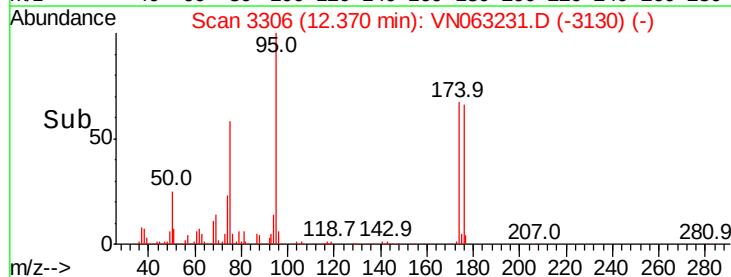
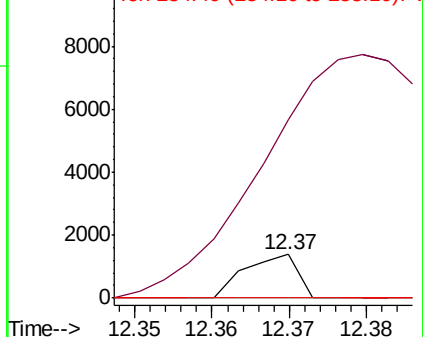


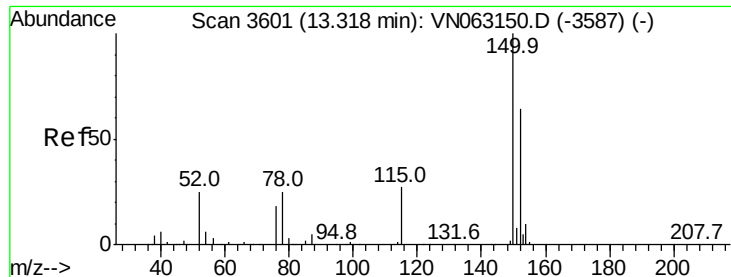
#71
Bromoform
Concen: 0.241 ug/l
RT: 12.37 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN063231.D
Acq: 3 Sep 2020 19:36

Tgt Ion:173 Resp: 660
Ion Ratio Lower Upper
173 100
175 1718.6 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: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20200901

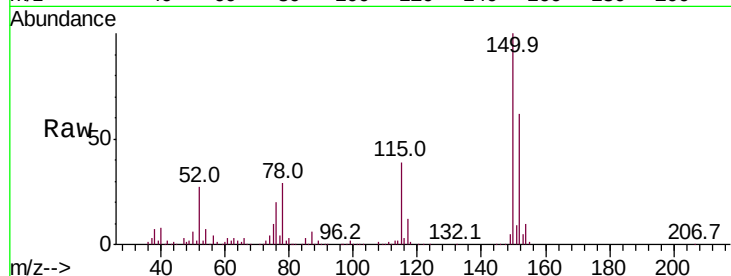
Tot Ion:152 Resp: 204596

Ion Ratio Lower Upper

152 100

115 62.1 32.0 96.2

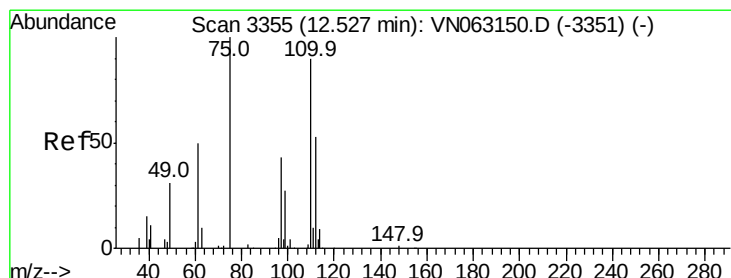
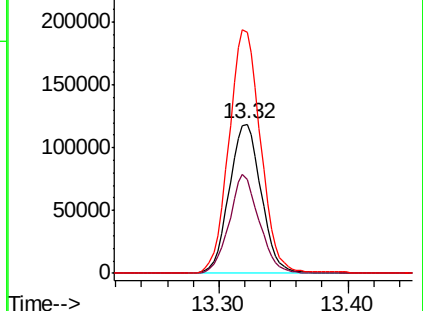
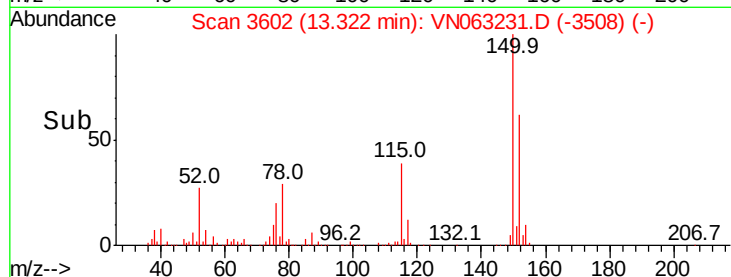
150 161.4 0.0 353.0



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: 33.514 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063231.D

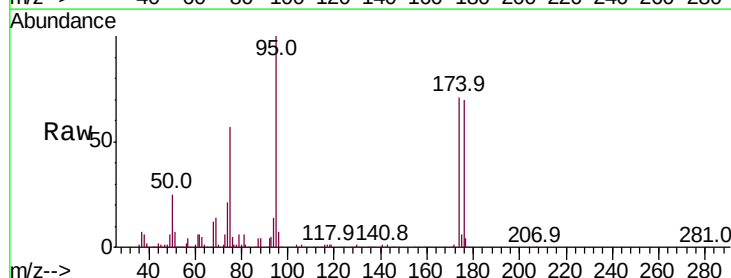
Acq: 3 Sep 2020 19:36

Tgt Ion: 75 Resp: 134723

Ion Ratio Lower Upper

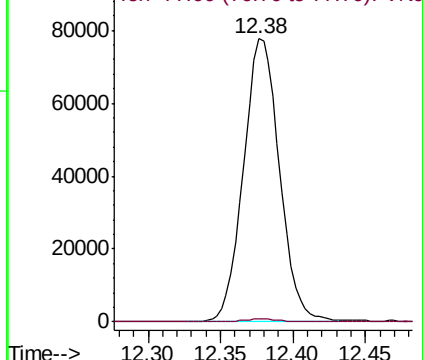
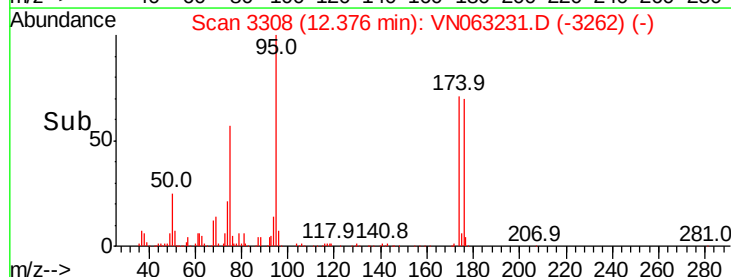
75 100

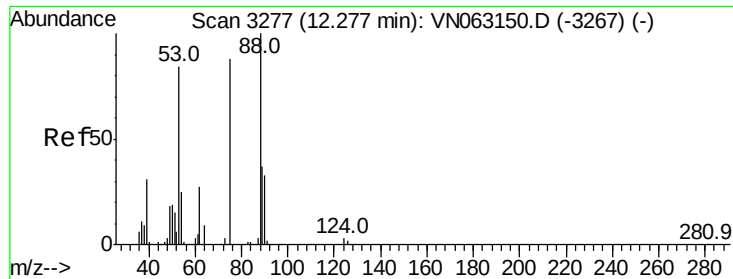
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 81.003 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063231.D

Acq: 3 Sep 2020 19:36

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145D-20200901

Tot Ion: 75 Resp: 134723

Ion Ratio Lower Upper

75 100

53 0.1 78.7 118.1#

89 0.0 35.3 52.9#

