

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058591.D
 Acq On : 8 Oct 2019 00:31
 Operator : JC/SP
 Sample : K5197-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 14:10:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	457436	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	718697	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	619736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	251388	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	303323	45.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.76%	
35) Dibromofluoromethane	7.57	113	217499	49.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.76%	
50) Toluene-d8	10.09	98	873758	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.41	95	291198	46.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.34%	

Target Compounds

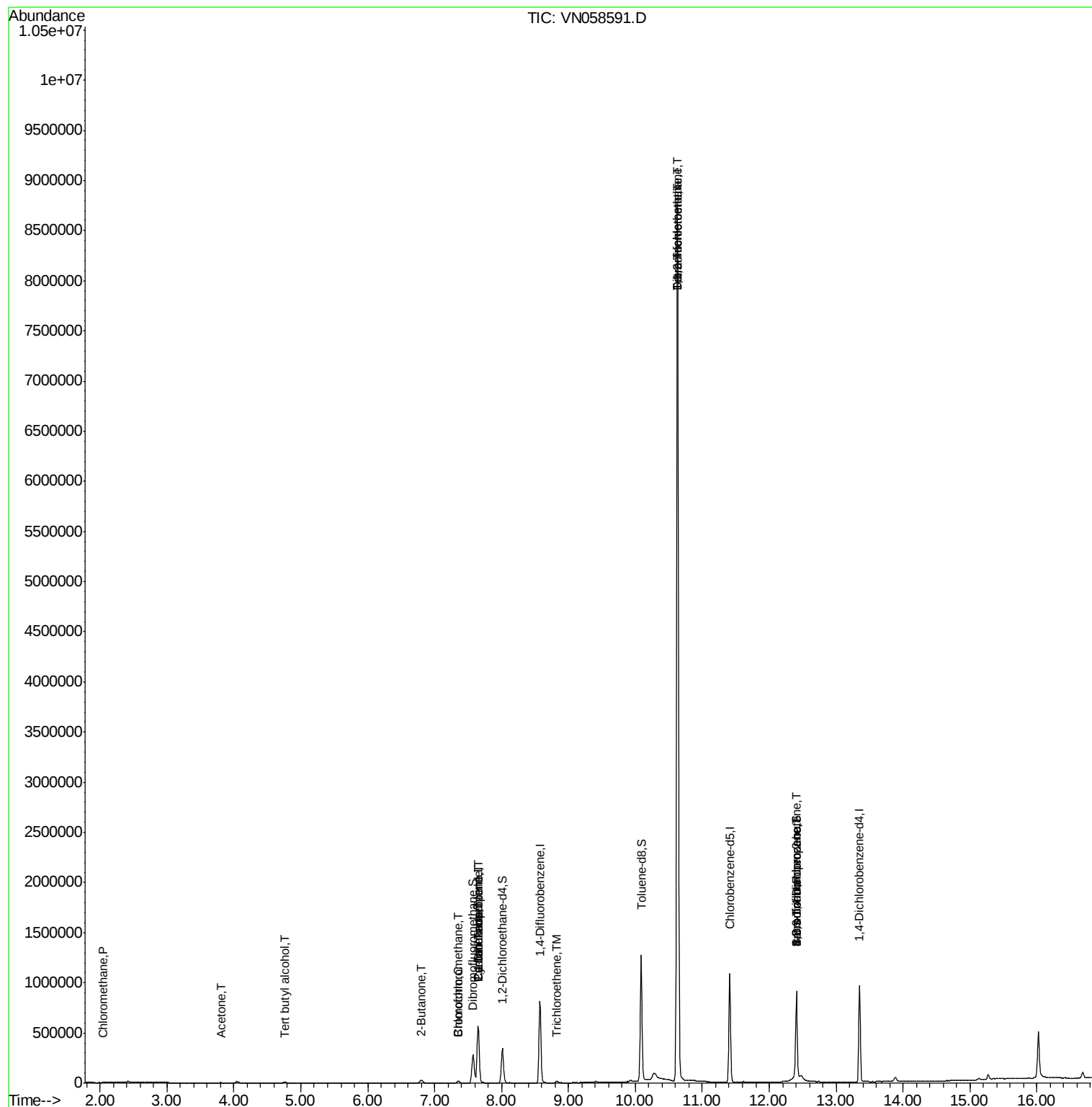
						Qvalue
3) Chloromethane	2.04	50	2997	0.544	ug/l #	87
11) Tert butyl alcohol	4.75	59	14870	20.024	ug/l	97
16) Acetone	3.81	43	7944	3.486	ug/l	98
25) 2-Butanone	6.80	43	1080	0.345	ug/l #	50
28) Bromochloromethane	7.35	49	1019	0.268	ug/l #	16
30) Chloroform	7.36	83	18058	1.874	ug/l	91
31) Cyclohexane	7.65	56	10576	1.143	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	37859	5.509	ug/l #	51
38) Carbon Tetrachloride	7.65	117	45707	7.368	ug/l #	15
44) Trichloroethene	8.82	130	6189	1.269	ug/l	99
55) 1,1,2-Trichloroethane	10.63	97	19293	4.261	ug/l #	1
60) Dibromochloromethane	10.63	129	1878931	404.701	ug/l #	11
64) Tetrachloroethene	10.63	164	2027057	514.823	ug/l	99
71) Bromoform	12.40	173	1334	1.153	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	153044	33.331	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	153044	101.231	ug/l #	7

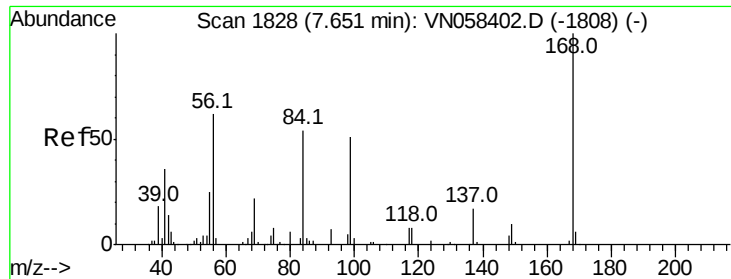
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

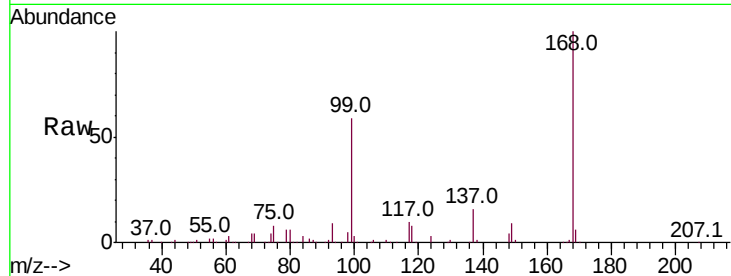
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 457436

Ion Ratio Lower Upper

168 100

99 59.0 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

150000

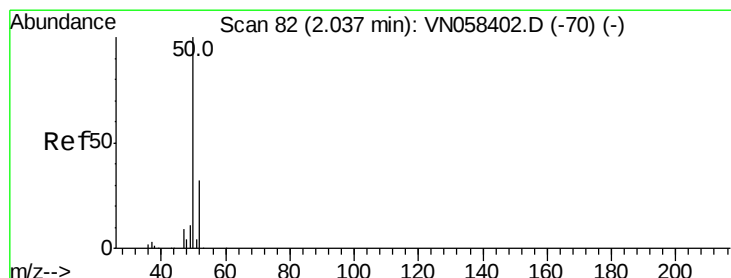
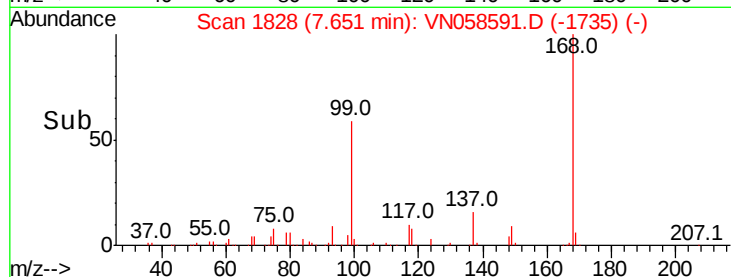
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.544 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN058591.D

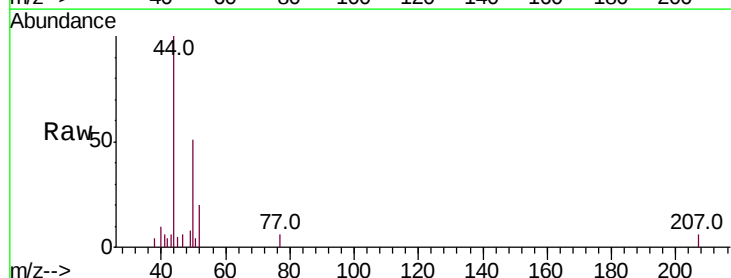
Acq: 8 Oct 2019 00:31

Tgt Ion: 50 Resp: 2997

Ion Ratio Lower Upper

50 100

52 39.7 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

2500

2000

1500

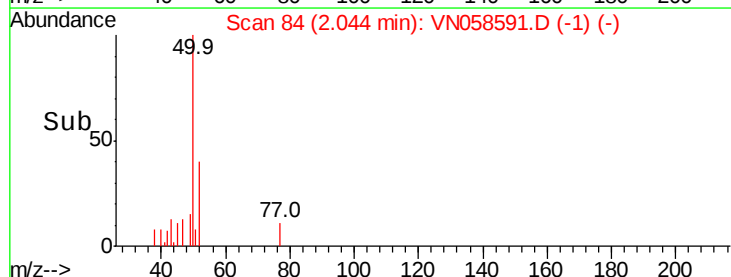
1000

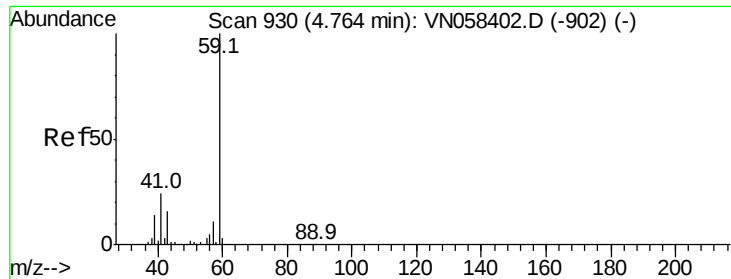
500

0

2.00 2.05

Time-->

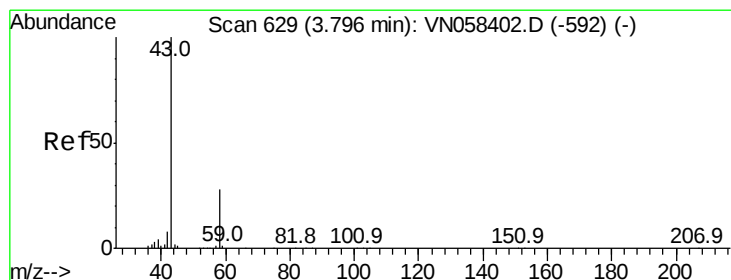
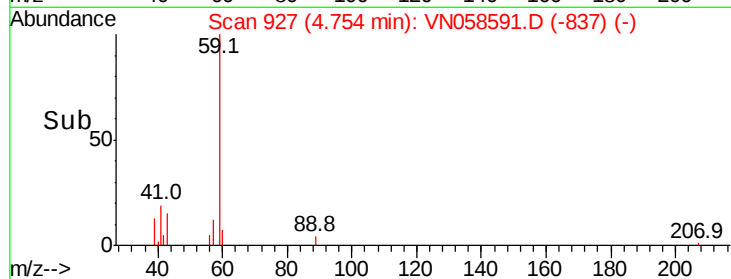
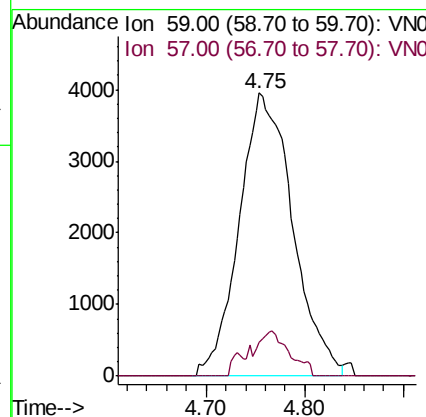
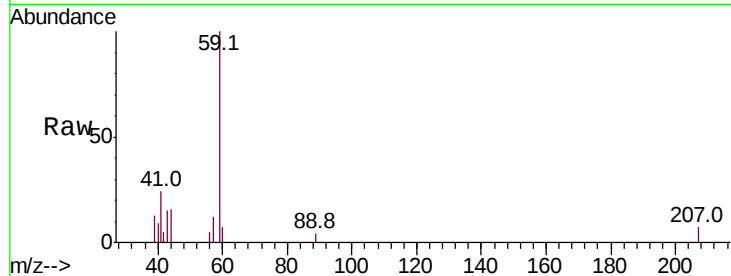




#11
Tert butyl alcohol
Concen: 20.024 ug/l
RT: 4.75 min Scan# 927
Delta R.T. -0.01 min
Lab File: VN058591.D
Acq: 8 Oct 2019 00:31

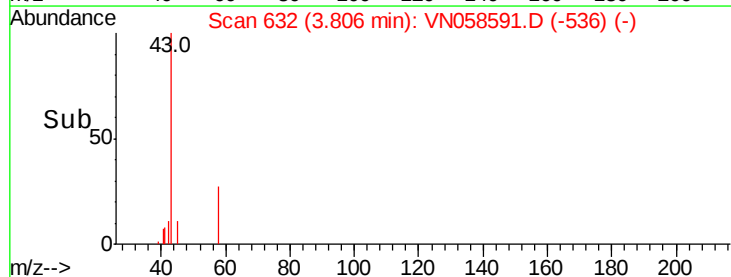
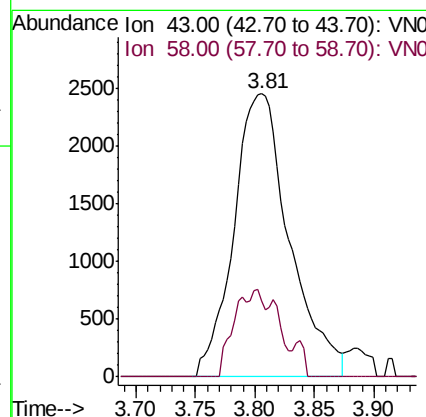
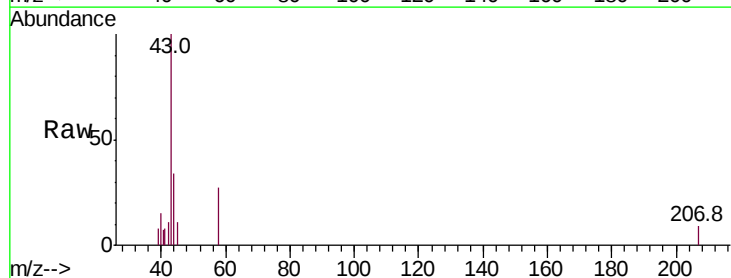
Instrument :
MSVOA_N
ClientSampled :

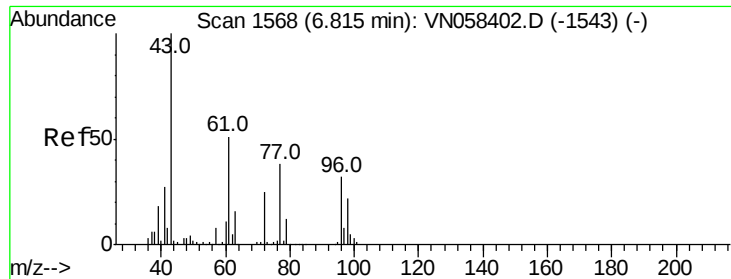
Tot Ion: 59 Resp: 14870
Ion Ratio Lower Upper
59 100
57 10.0 9.0 13.4



#16
Acetone
Concen: 3.486 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.01 min
Lab File: VN058591.D
Acq: 8 Oct 2019 00:31

Tgt Ion: 43 Resp: 7944
Ion Ratio Lower Upper
43 100
58 26.8 22.4 33.6





#25

2-Butanone

Concen: 0.345 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. -0.02 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

Instrument :

MSVOA_N

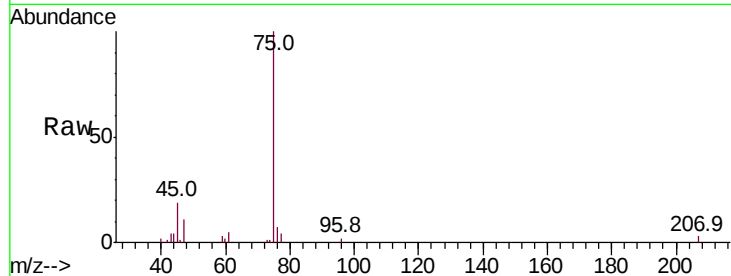
ClientSampleId :

Tot Ion: 43 Resp: 1080

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.80

800

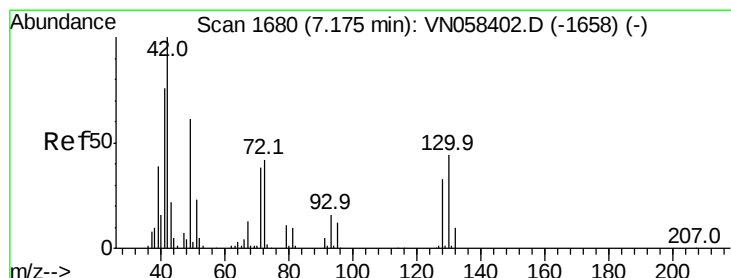
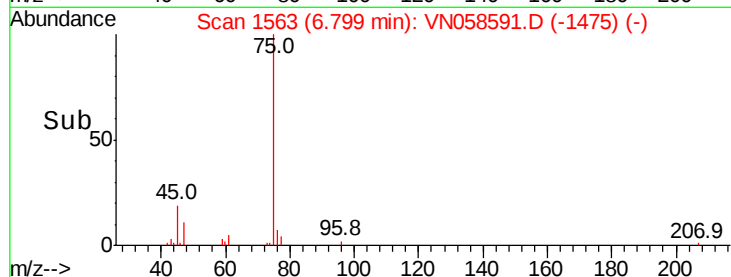
600

400

200

0

Time-->



#28

Bromochloromethane

Concen: 0.268 ug/l

RT: 7.35 min Scan# 1735

Delta R.T. 0.18 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

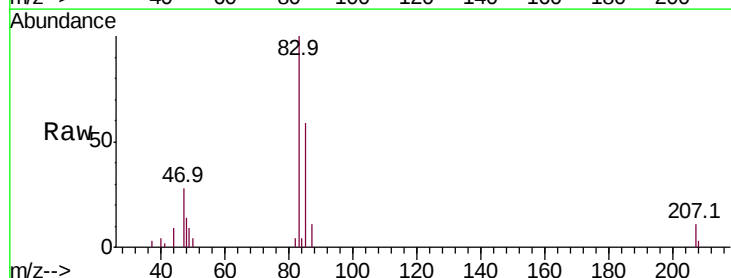
Tgt Ion: 49 Resp: 1019

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.4

130 0.0 56.3 84.5#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

800

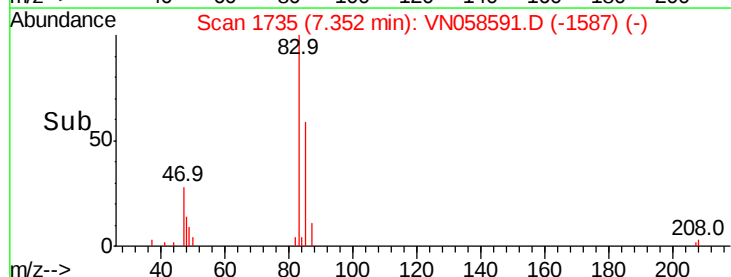
600

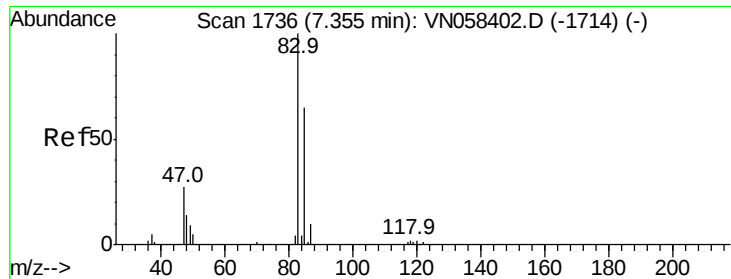
400

200

0

Time-->

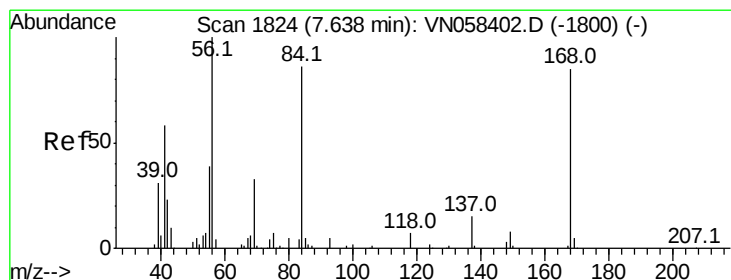
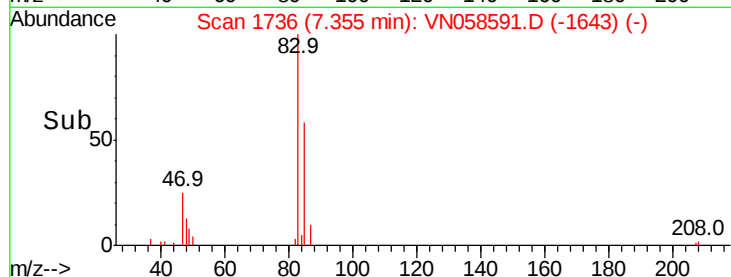
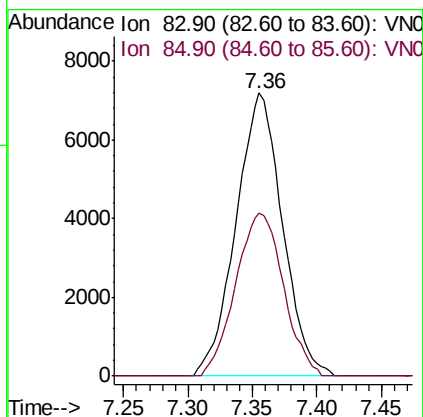
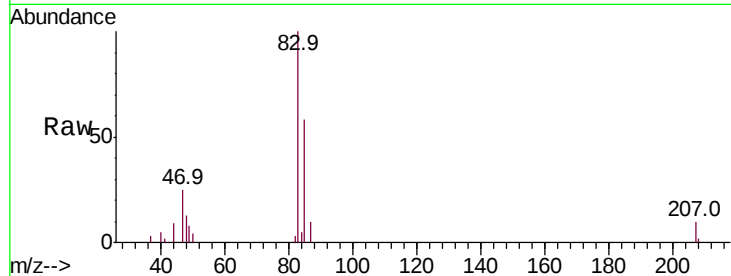




#30
Chloroform
Concen: 1.874 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058591.D
Acq: 8 Oct 2019 00:31

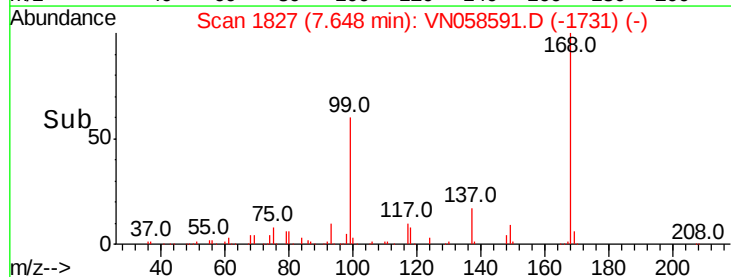
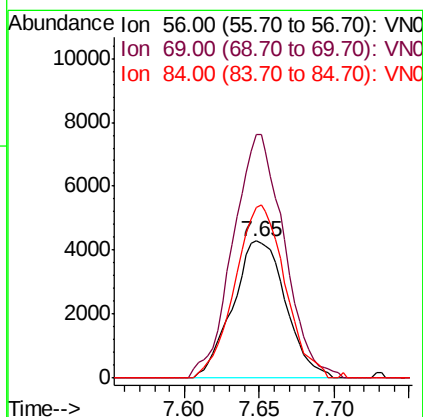
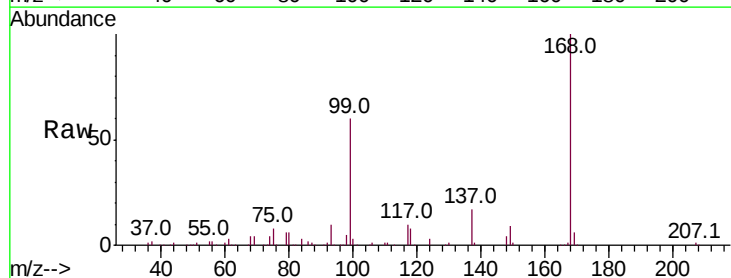
Instrument :
MSVOA_N
ClientSampleId :

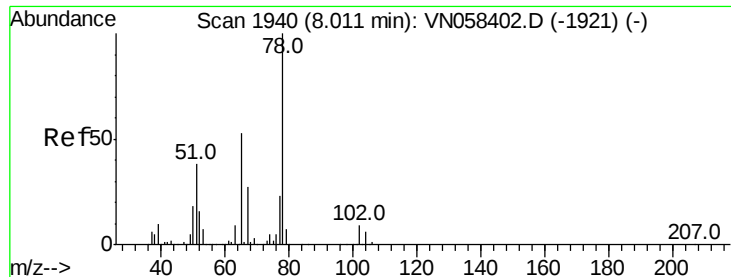
Tot Ion: 83 Resp: 18058
Ion Ratio Lower Upper
83 100
85 57.7 52.0 78.0



#31
Cyclohexane
Concen: 1.143 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058591.D
Acq: 8 Oct 2019 00:31

Tgt Ion: 56 Resp: 10576
Ion Ratio Lower Upper
56 100
69 177.5 26.2 39.4#
84 124.9 67.6 101.4#





#33

1,2-Dichloroethane-d4

Concen: 45.376 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

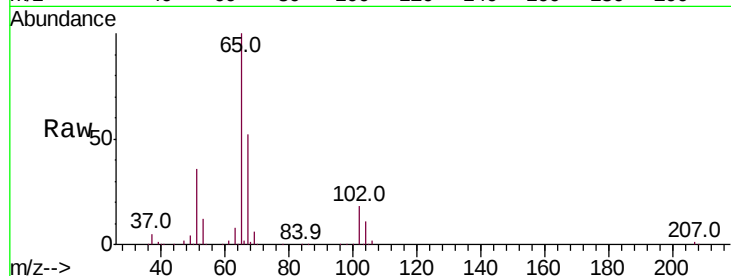
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 303323

Ion Ratio Lower Upper

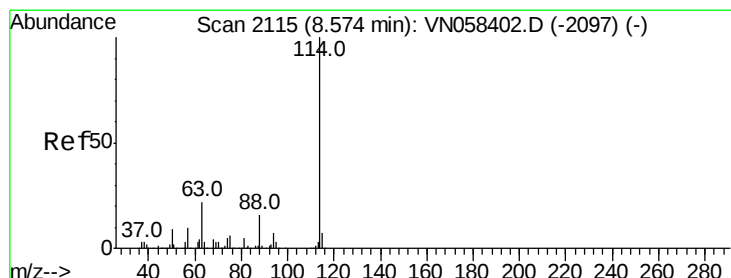
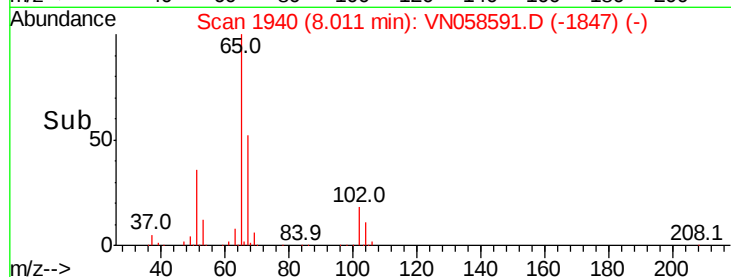
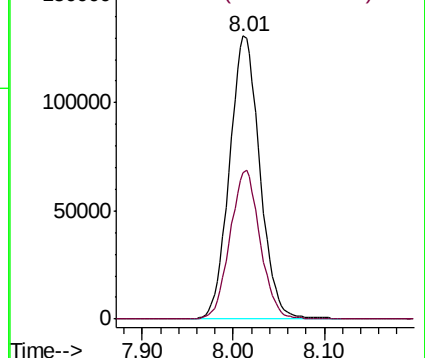
65 100

67 52.1 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN058591.D (-1847) (-)

Ion 66.90 (66.60 to 67.60): VN058591.D (-1847) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. 0.00 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

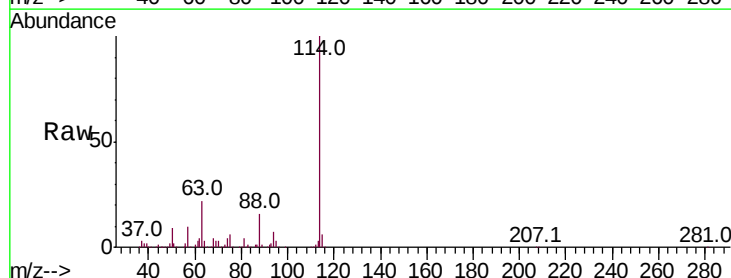
Tgt Ion: 114 Resp: 718697

Ion Ratio Lower Upper

114 100

63 21.8 0.0 45.0

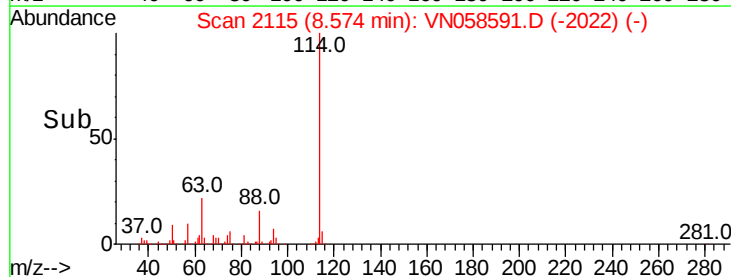
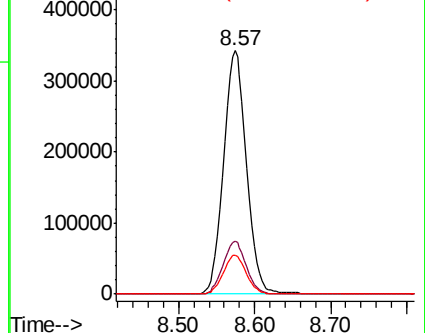
88 16.2 0.0 32.2

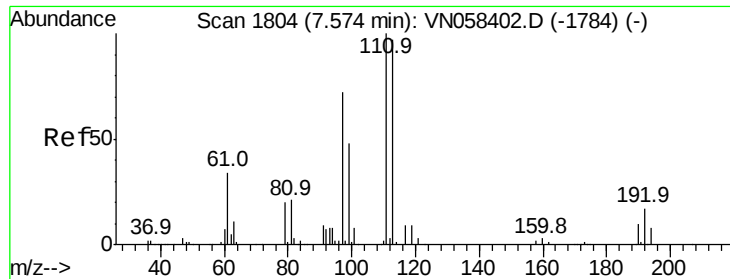


Abundance Ion 113.90 (113.60 to 114.60): VN058591.D (-2022) (-)

Ion 63.00 (62.70 to 63.70): VN058591.D (-2022) (-)

Ion 87.90 (87.60 to 88.60): VN058591.D (-2022) (-)

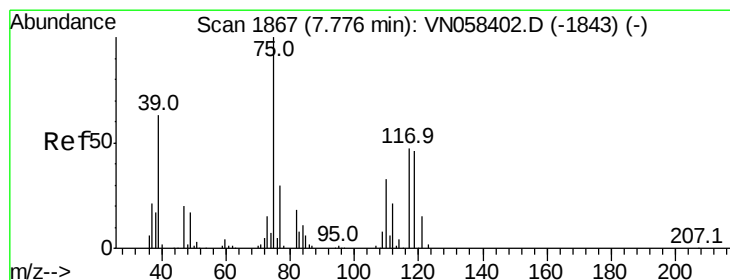
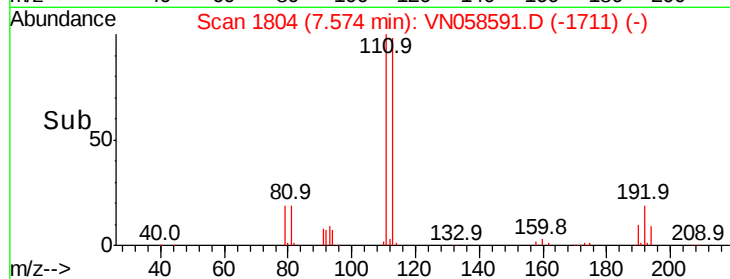
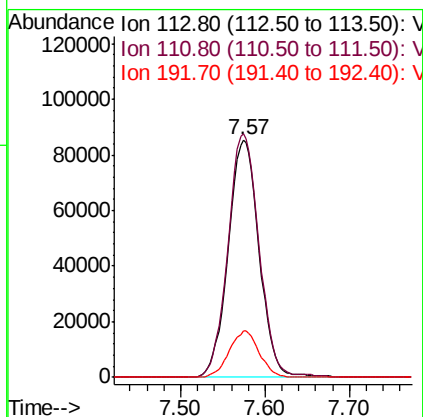
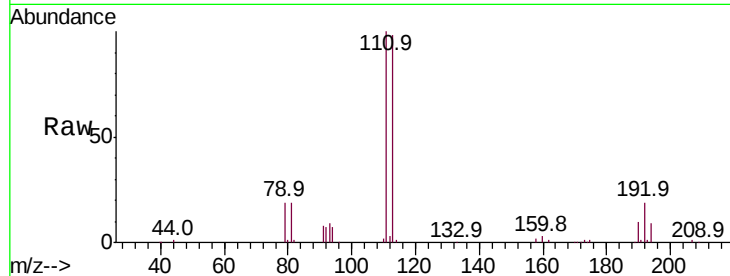




#35
 Dibromofluoromethane
 Concen: 49.378 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058591.D
 Acq: 8 Oct 2019 00:31

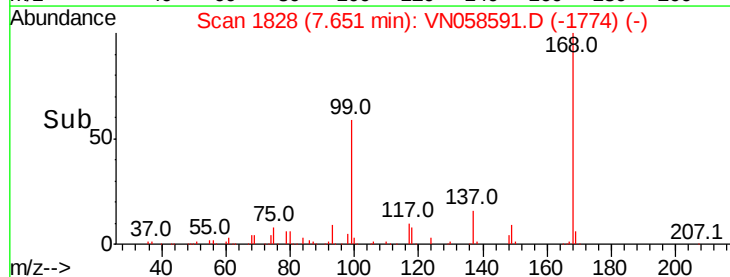
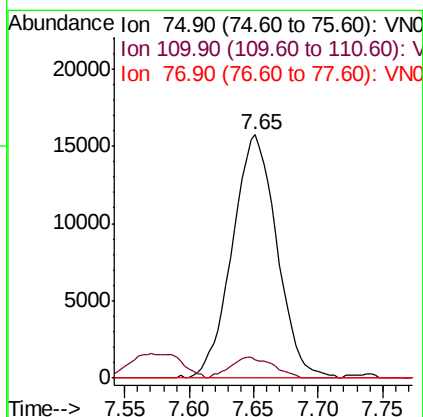
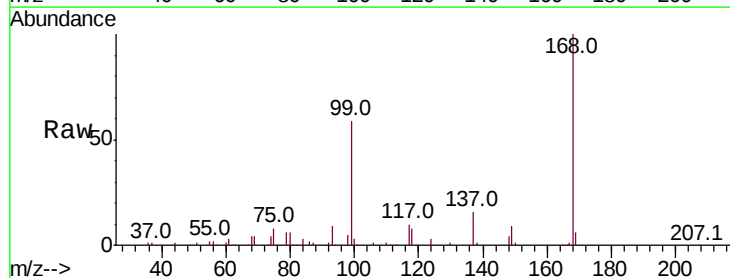
Instrument :
 MSVOA_N
 ClientSampled :

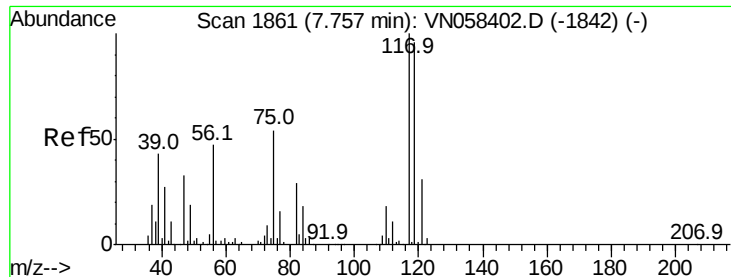
Tot Ion:113 Resp: 217499
 Ion Ratio Lower Upper
 113 100
 111 102.5 83.4 125.2
 192 19.0 14.9 22.3



#36
 1,1-Dichloropropene
 Concen: 5.509 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058591.D
 Acq: 8 Oct 2019 00:31

Tgt Ion: 75 Resp: 37859
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.4 49.2#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 7.368 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

Instrument :
MSVOA_N
ClientSampled :

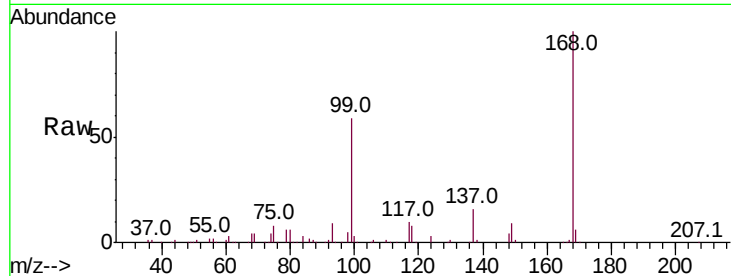
Tot Ion:117 Resp: 45707

Ion Ratio Lower Upper

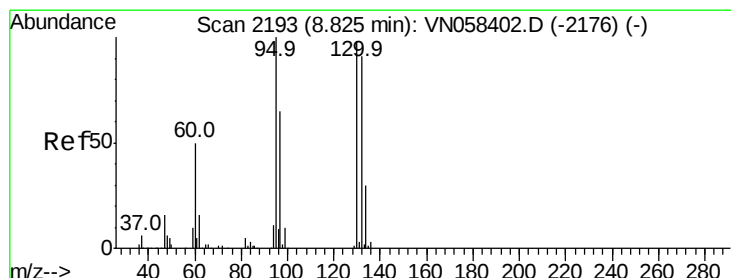
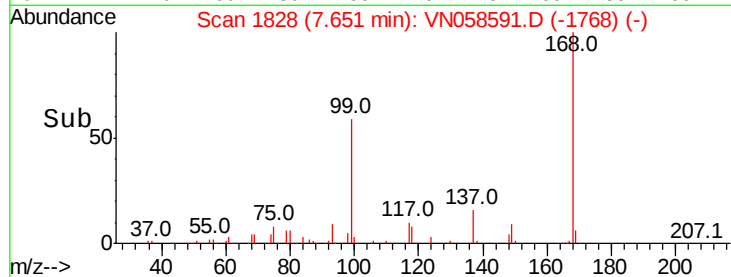
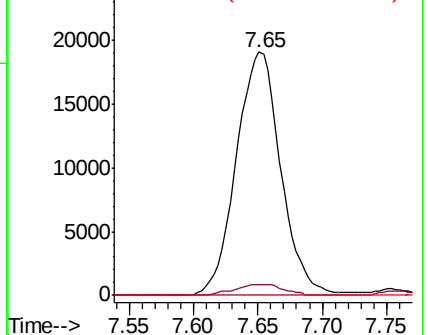
117 100

119 4.3 76.6 115.0#

121 0.0 24.7 37.1#



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



#44

Trichloroethene

Concen: 1.269 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058591.D

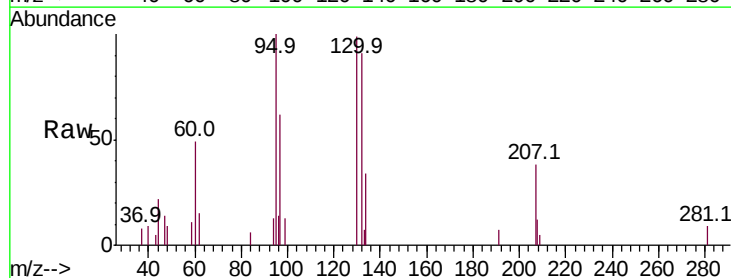
Acq: 8 Oct 2019 00:31

Tgt Ion:130 Resp: 6189

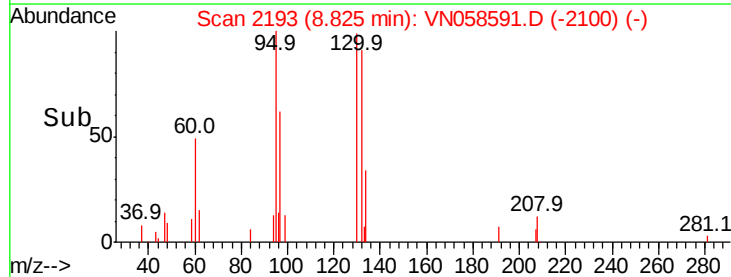
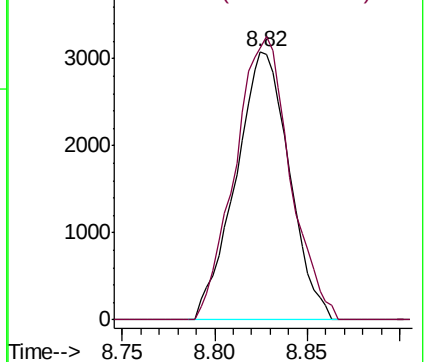
Ion Ratio Lower Upper

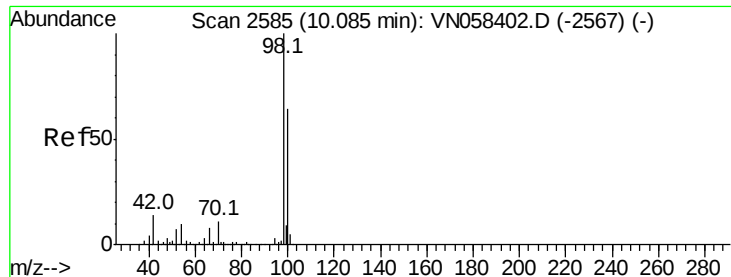
130 100

95 101.4 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 50.636 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

Instrument :

MSVOA_N

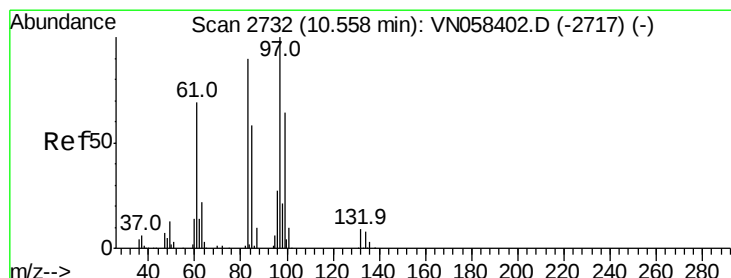
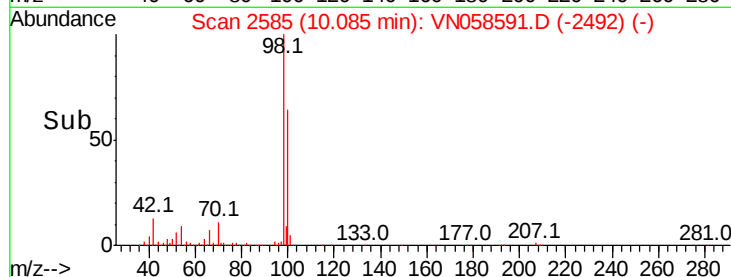
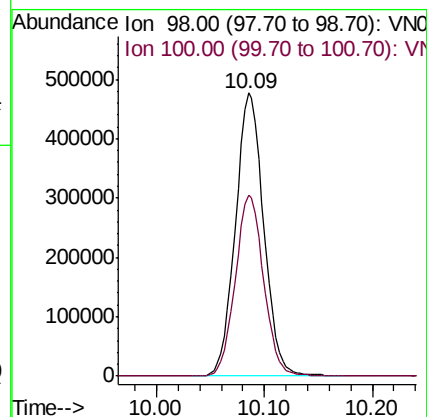
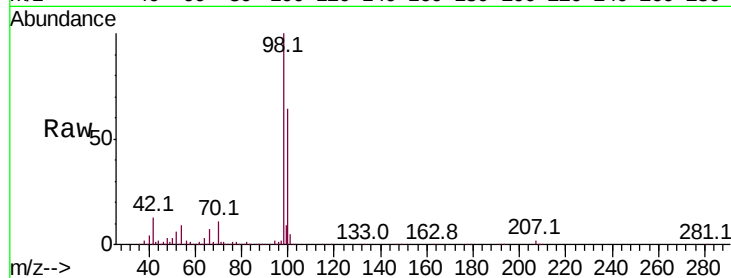
ClientSampleId :

Tot Ion: 98 Resp: 873758

Ion Ratio Lower Upper

98 100

100 64.1 51.0 76.6



#55

1,1,2-Trichloroethane

Concen: 4.261 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.07 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

Tgt Ion: 97 Resp: 19293

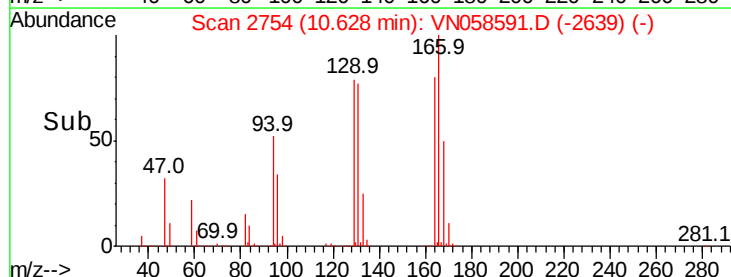
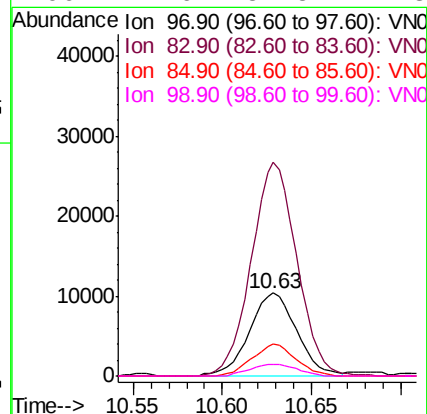
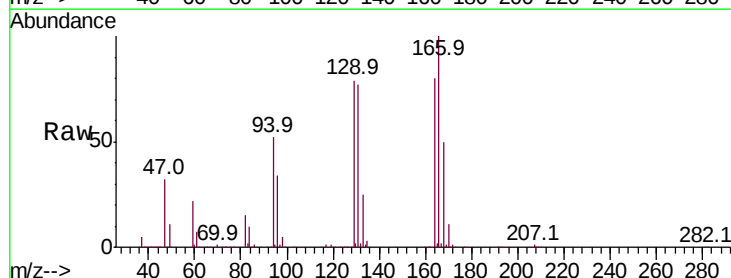
Ion Ratio Lower Upper

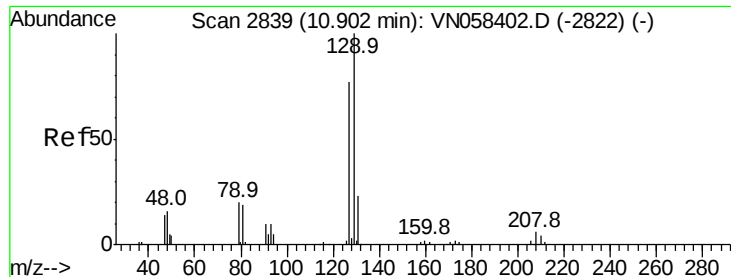
97 100

83 257.0 71.8 107.6#

85 39.1 46.6 69.8#

99 14.6 51.5 77.3#





#60

Dibromochloromethane

Concen: 404.701 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

Instrument :

MSVOA_N

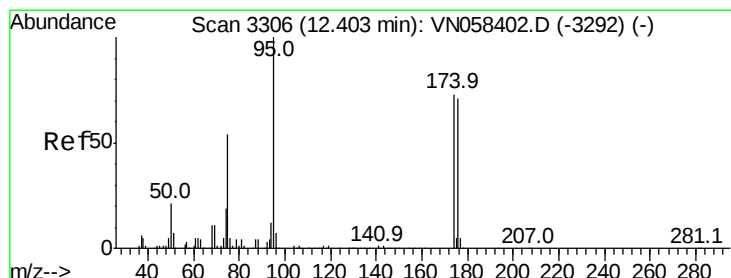
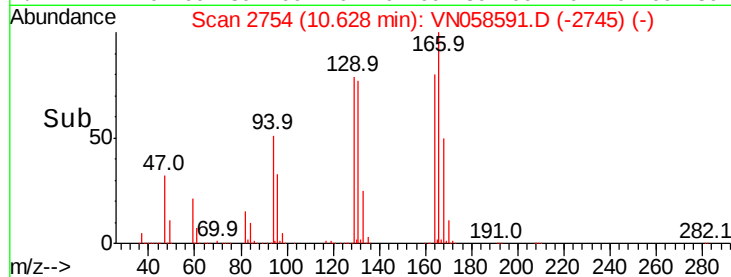
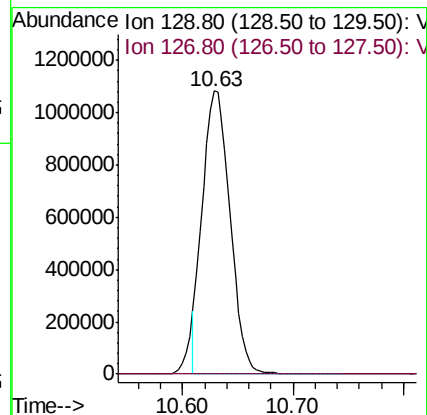
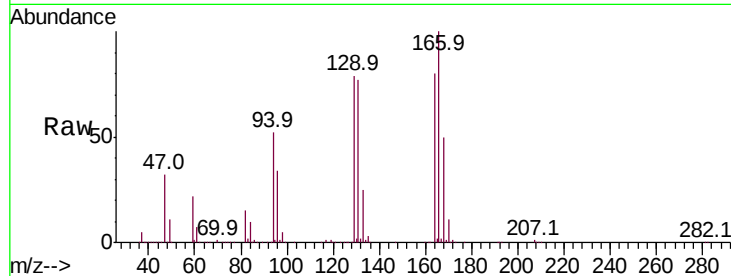
ClientSampleId :

Tot Ion:129 Resp: 1878931

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



#62

4-Bromofluorobenzene

Concen: 46.672 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

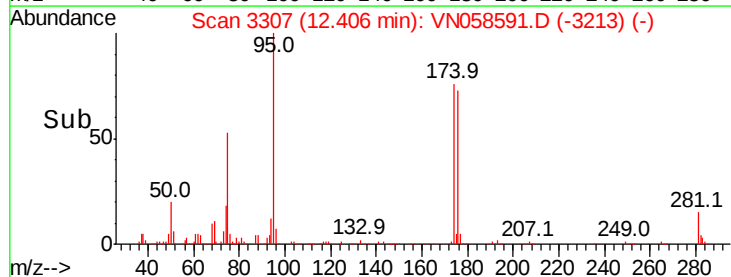
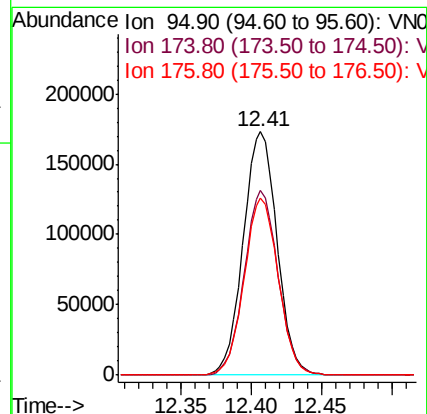
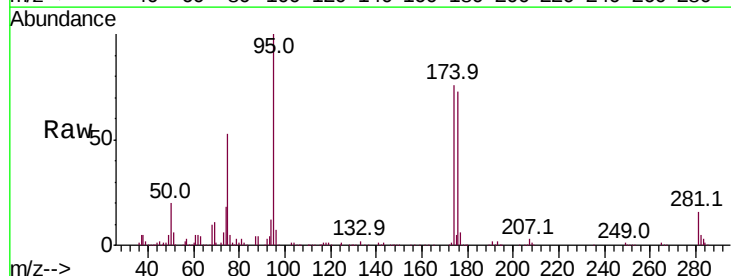
Tgt Ion: 95 Resp: 291198

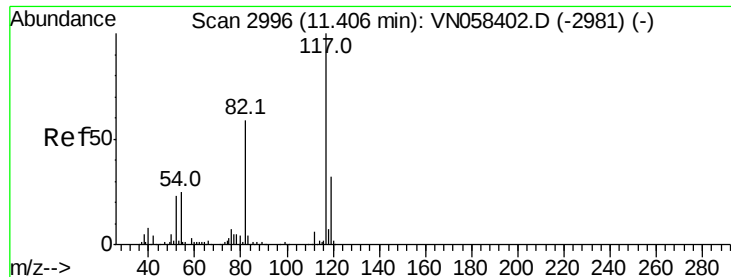
Ion Ratio Lower Upper

95 100

174 75.9 0.0 150.6

176 73.5 0.0 146.2

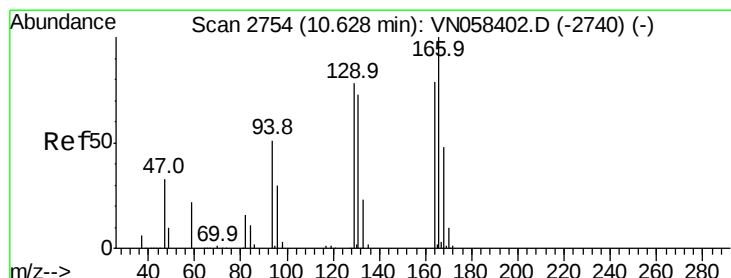
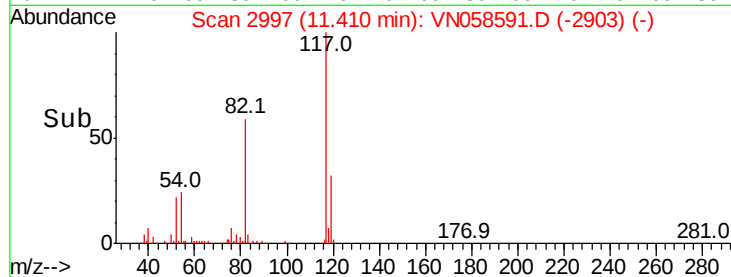
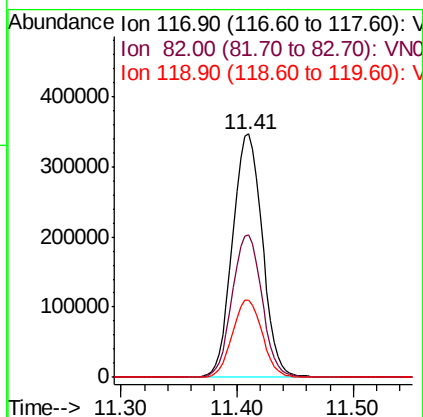
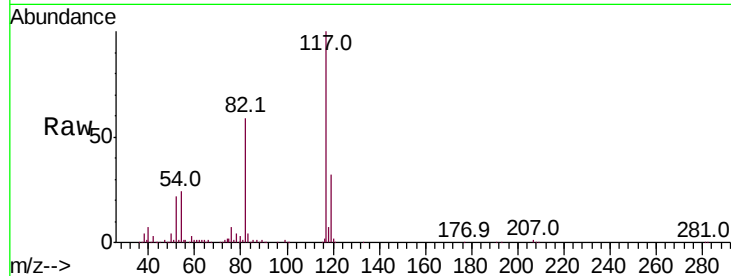




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058591.D
Acq: 8 Oct 2019 00:31

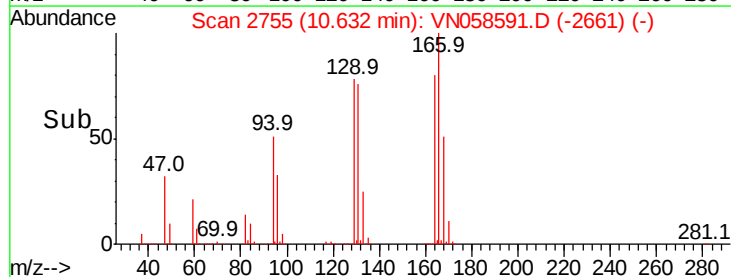
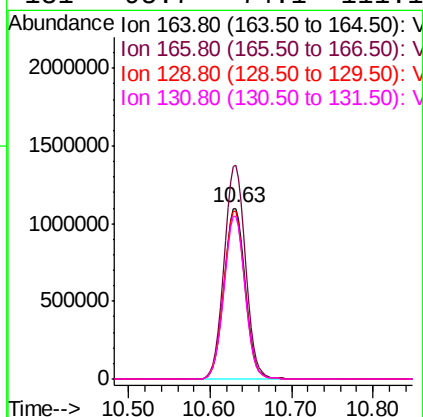
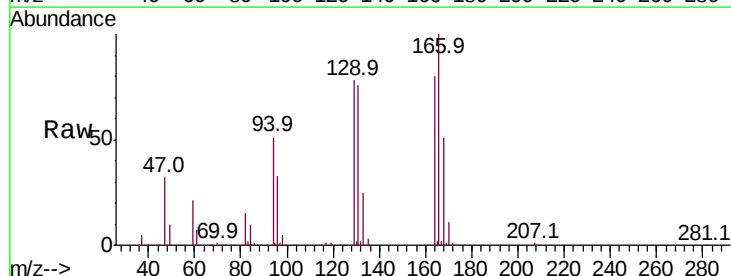
Instrument :
MSVOA_N
ClientSampled :

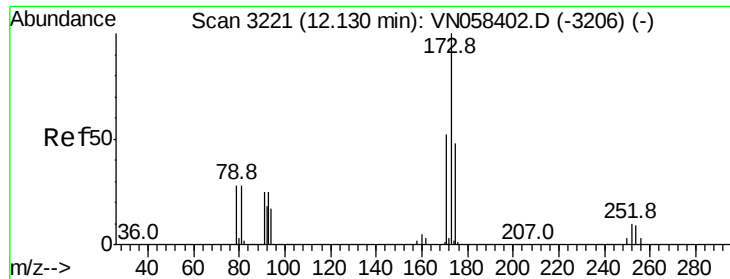
Tot Ion:117 Resp: 619736
Ion Ratio Lower Upper
117 100
82 58.8 47.4 71.0
119 31.8 25.5 38.3



#64
Tetrachloroethene
Concen: 514.823 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN058591.D
Acq: 8 Oct 2019 00:31

Tgt Ion:164 Resp: 2027057
Ion Ratio Lower Upper
164 100
166 125.5 101.1 151.7
129 98.5 79.2 118.8
131 95.7 74.1 111.1





#71

Bromoform

Concen: 1.153 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

Instrument :

MSVOA_N

ClientSampleId :

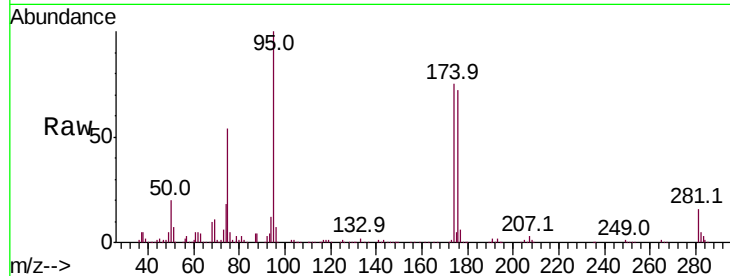
Tot Ion:173 Resp: 1334

Ion Ratio Lower Upper

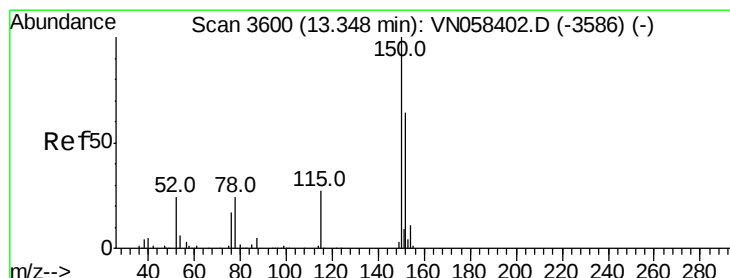
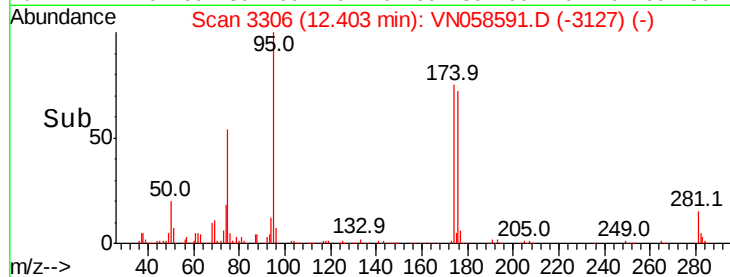
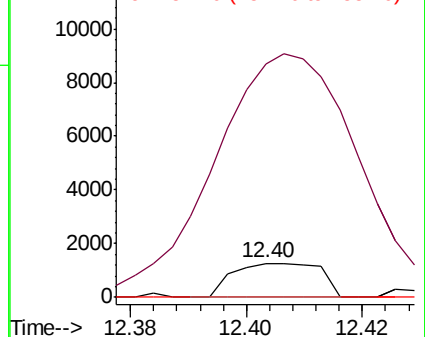
173 100

175 984.9 24.3 73.0#

254 0.0 0.1 0.1#



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

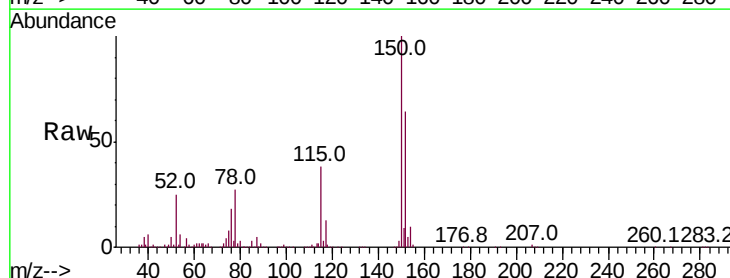
Tgt Ion:152 Resp: 251388

Ion Ratio Lower Upper

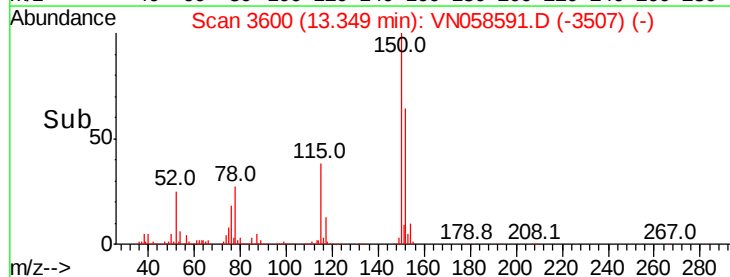
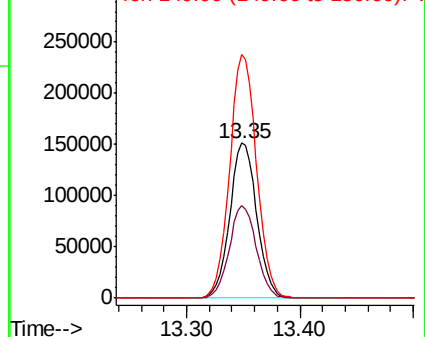
152 100

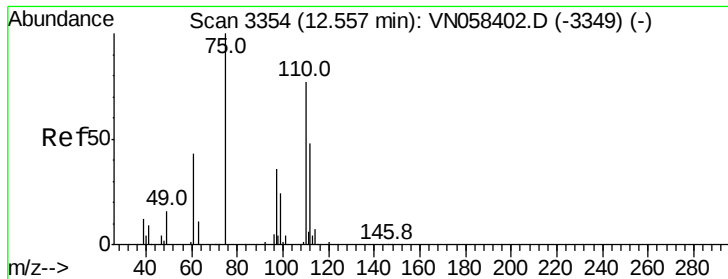
115 59.8 30.0 90.0

150 156.2 0.0 348.2



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: 33.331 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

Instrument :

MSVOA_N

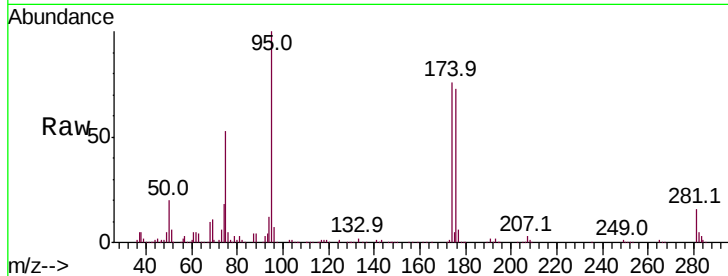
ClientSampled :

Tot Ion: 75 Resp: 153044

Ion Ratio Lower Upper

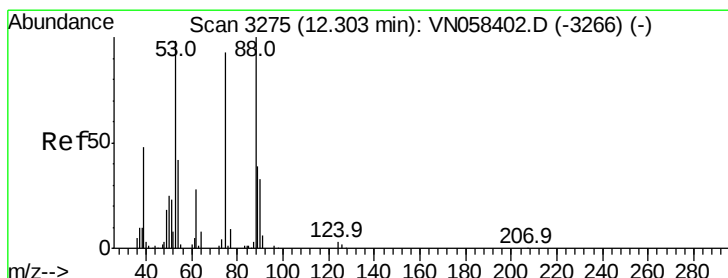
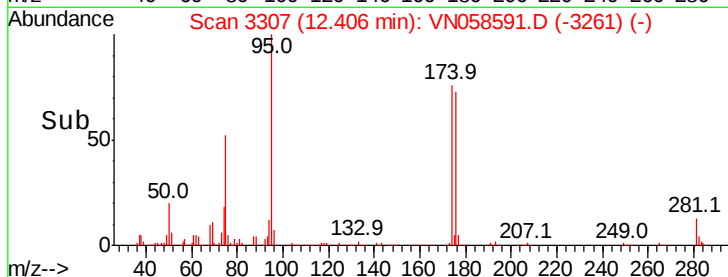
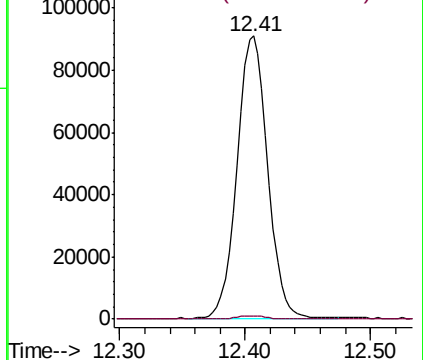
75 100

77 1.4 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: 101.231 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058591.D

Acq: 8 Oct 2019 00:31

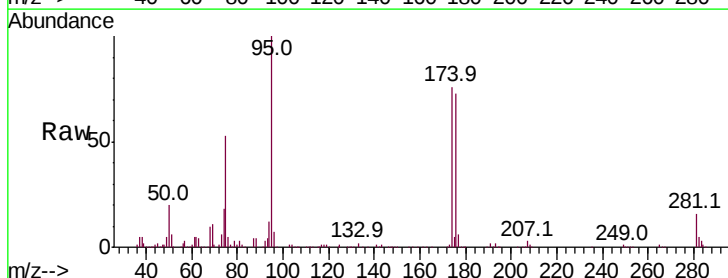
Tgt Ion: 75 Resp: 153044

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.0 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

