

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058574.D
 Acq On : 7 Oct 2019 18:15
 Operator : JC/SP
 Sample : K5197-02DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 14:06:49 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	511023	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	795758	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	703294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	288051	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	346593	46.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.82%	
35) Dibromofluoromethane	7.57	113	247700	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
50) Toluene-d8	10.08	98	991402	51.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.78%	
62) 4-Bromofluorobenzene	12.41	95	338250	48.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.92%	

Target Compounds

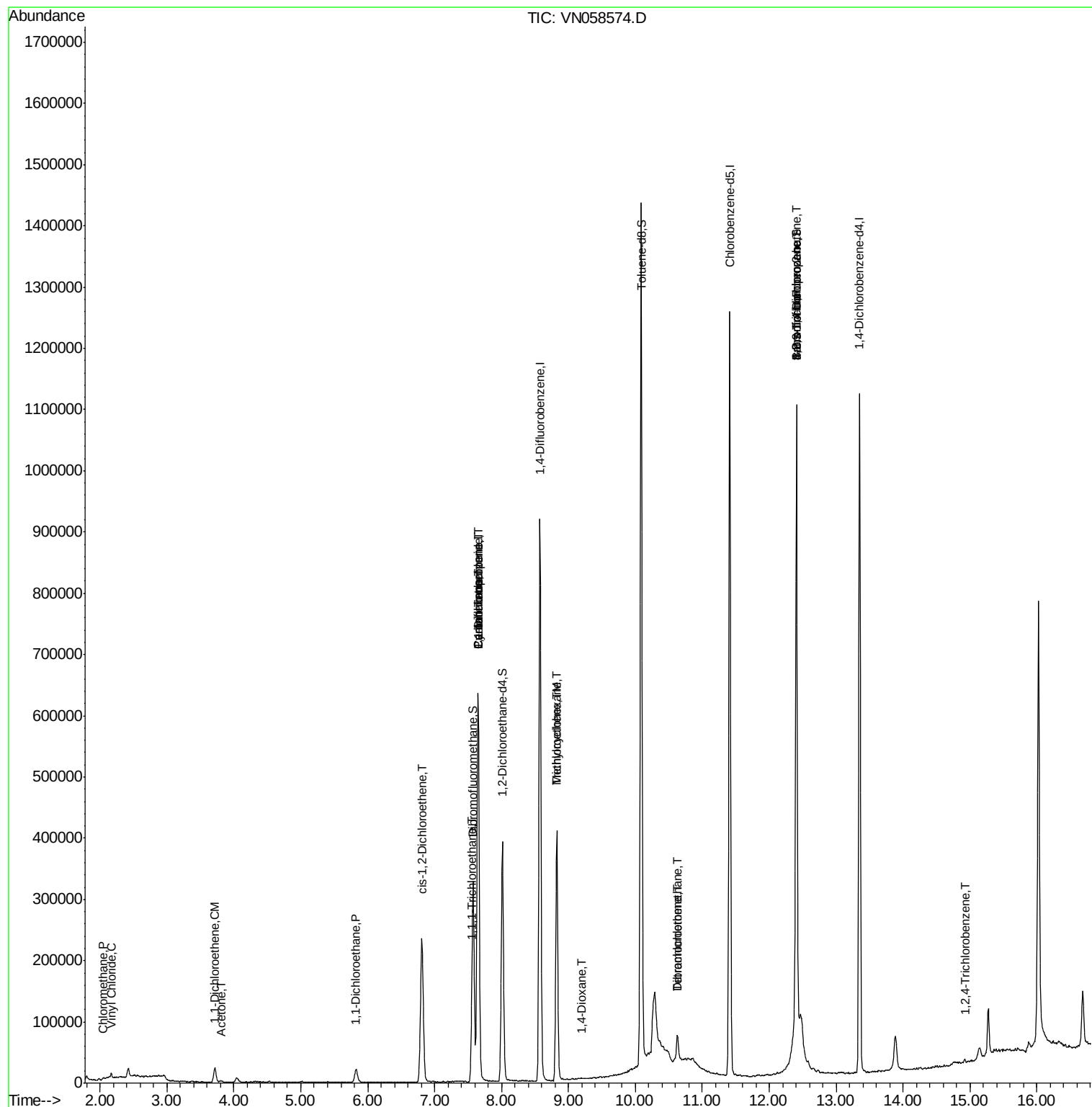
						Qvalue
3) Chloromethane	2.04	50	1614	0.262	ug/l #	80
4) Vinyl Chloride	2.17	62	6924	1.147	ug/l	96
12) 1,1-Dichloroethene	3.72	96	12370	2.566	ug/l	97
16) Acetone	3.80	43	3755	1.475	ug/l #	86
24) 1,1-Dichloroethane	5.82	63	32936	3.100	ug/l	96
27) cis-1,2-Dichloroethene	6.81	96	148336	23.675	ug/l	89
31) Cyclohexane	7.65	56	11679	1.130	ug/l #	1
32) 1,1,1-Trichloroethane	7.54	97	3046	0.345	ug/l #	53
36) 1,1-Dichloropropene	7.65	75	41424	5.444	ug/l #	52
38) Carbon Tetrachloride	7.65	117	50457	7.346	ug/l #	16
39) Methylcyclohexane	8.82	83	1899	0.214	ug/l #	1
44) Trichloroethene	8.82	130	144016	26.667	ug/l	99
49) 1,4-Dioxane	9.19	88	963	13.038	ug/l #	87
60) Dibromochloromethane	10.63	129	8342	1.066	ug/l #	11
64) Tetrachloroethene	10.63	164	8943	2.001	ug/l	96
71) Bromoform	12.41	173	1246	1.072	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	176187	33.488	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	176187	101.706	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.92	180	1132	0.236	ug/l #	72

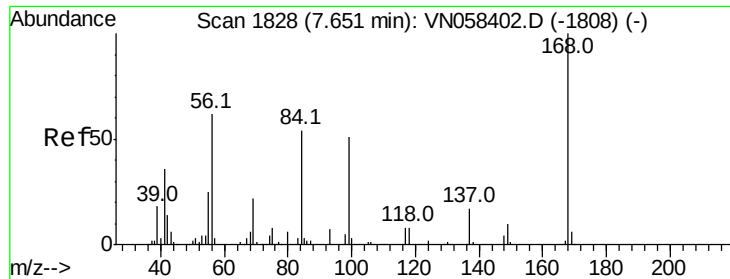
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

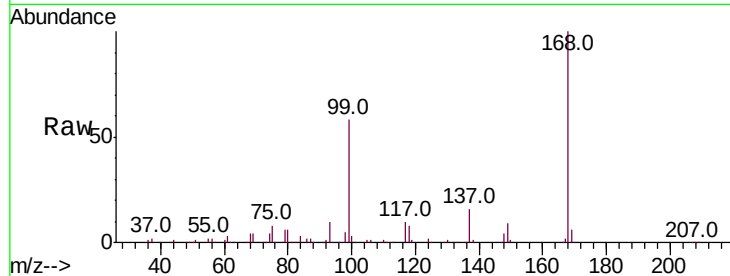
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 511023

Ion Ratio Lower Upper

168 100

99 58.2 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

250000

200000

150000

100000

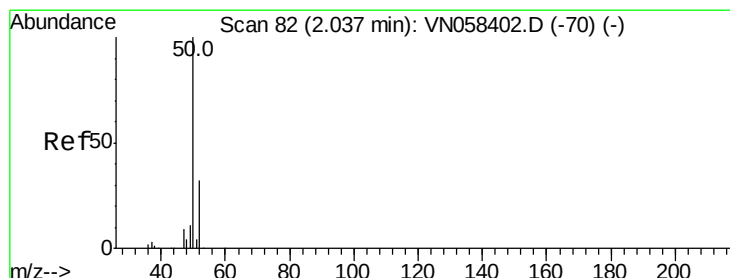
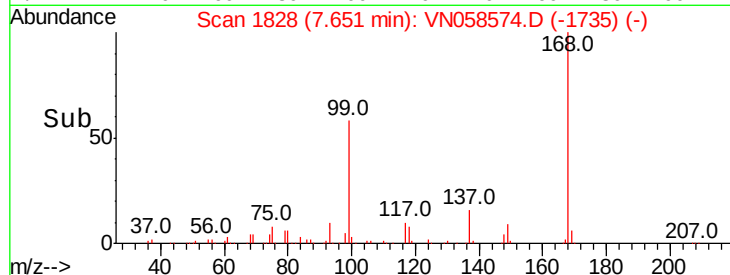
50000

0

7.65

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.262 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058574.D

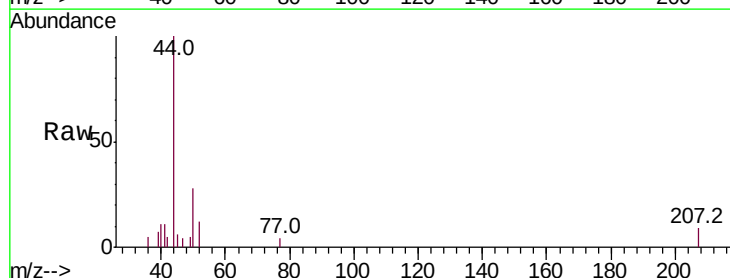
Acq: 7 Oct 2019 18:15

Tgt Ion: 50 Resp: 1614

Ion Ratio Lower Upper

50 100

52 43.9 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

1200

1000

800

600

400

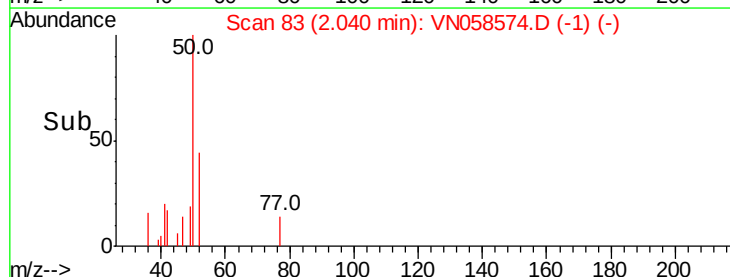
200

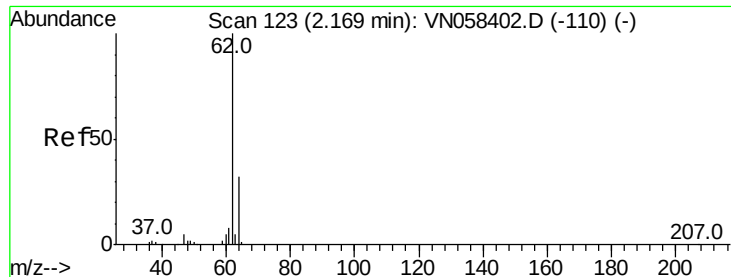
0

2.04

2.00 2.05

Time-->





#4

Vinyl Chloride

Concen: 1.147 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Instrument :

MSVOA_N

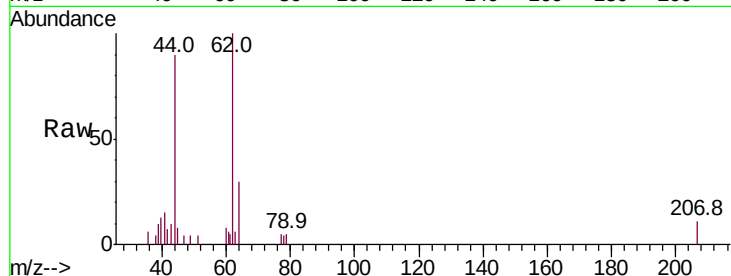
ClientSampled :

Tot Ion: 62 Resp: 6924

Ion Ratio Lower Upper

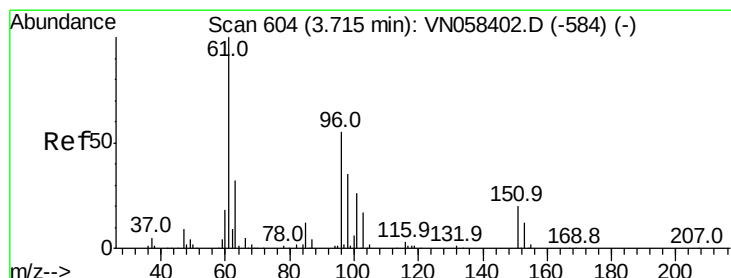
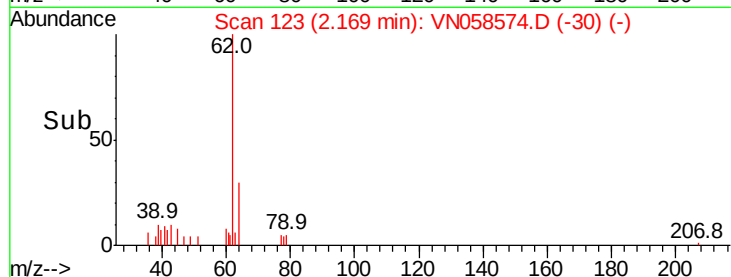
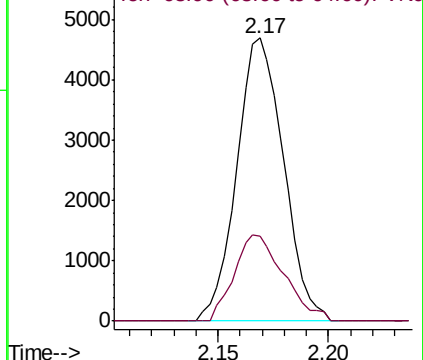
62 100

64 29.9 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC



#12

1,1-Dichloroethene

Concen: 2.566 ug/l

RT: 3.72 min Scan# 604

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

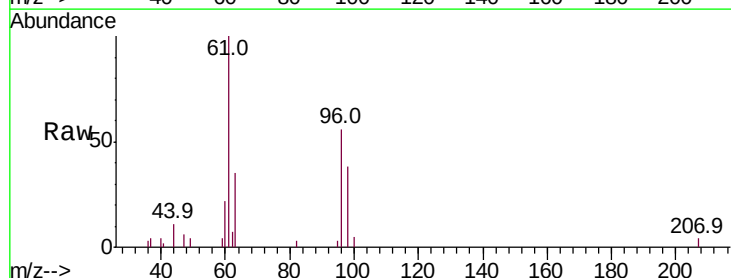
Tgt Ion: 96 Resp: 12370

Ion Ratio Lower Upper

96 100

61 179.4 146.7 220.1

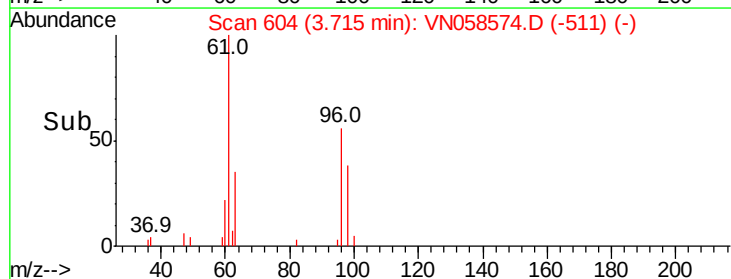
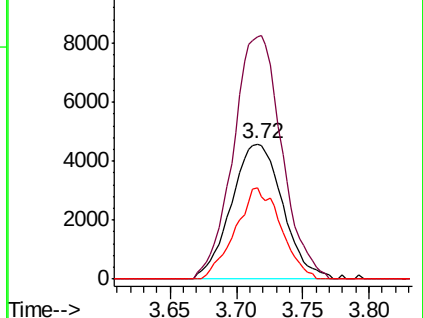
98 67.4 51.3 76.9

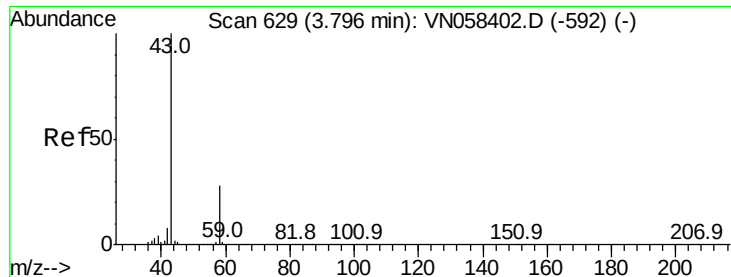


Abundance Ion 95.90 (95.60 to 96.60): VNC

Ion 60.90 (60.60 to 61.60): VNC

Ion 97.90 (97.60 to 98.60): VNC

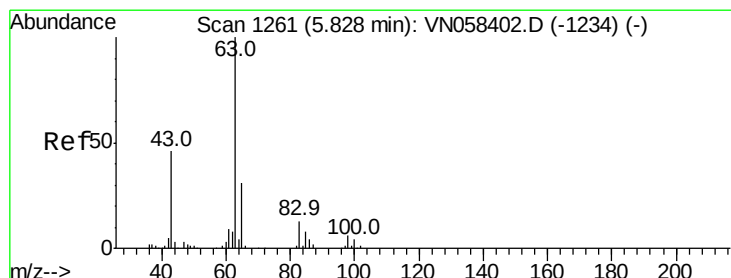
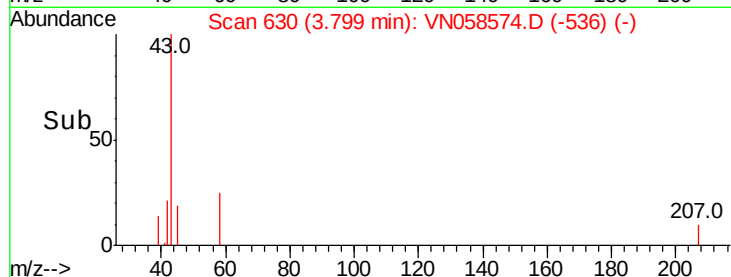
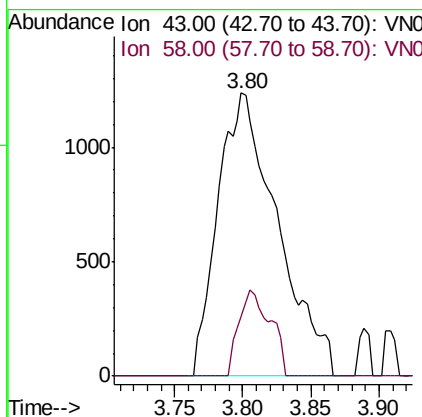
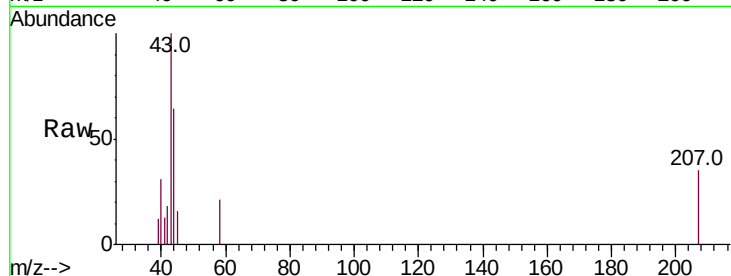




#16
Acetone
Concen: 1.475 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN058574.D
Acq: 7 Oct 2019 18:15

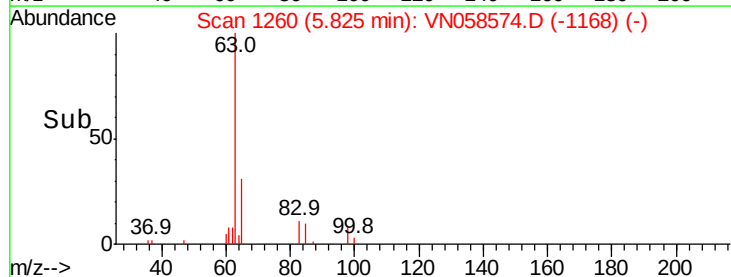
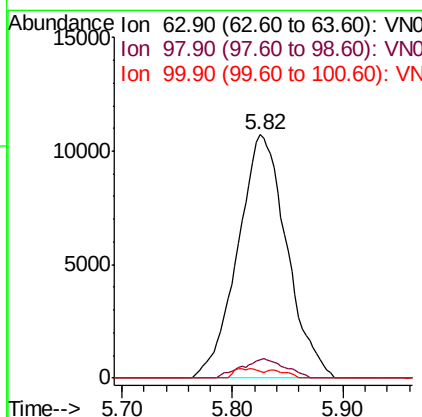
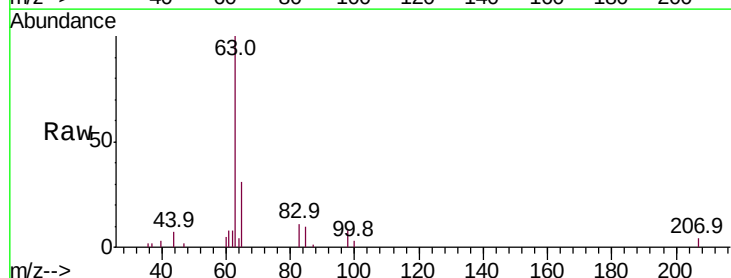
Instrument :
MSVOA_N
ClientSampled :

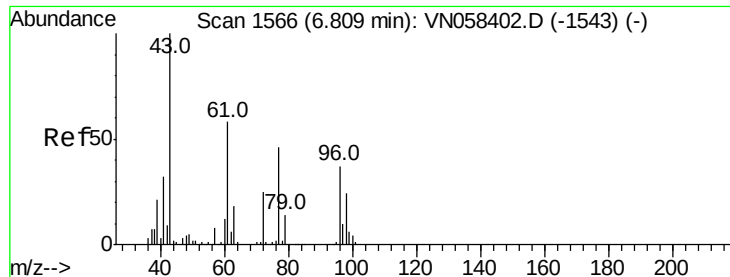
Tot Ion: 43 Resp: 3755
Ion Ratio Lower Upper
43 100
58 20.8 22.4 33.6#



#24
1,1-Dichloroethane
Concen: 3.100 ug/l
RT: 5.82 min Scan# 1260
Delta R.T. -0.00 min
Lab File: VN058574.D
Acq: 7 Oct 2019 18:15

Tgt Ion: 63 Resp: 32936
Ion Ratio Lower Upper
63 100
98 7.6 3.0 9.0
100 2.8 2.0 5.8





#27

cis-1,2-Dichloroethene

Concen: 23.675 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Instrument :
MSVOA_N
ClientSampleId :

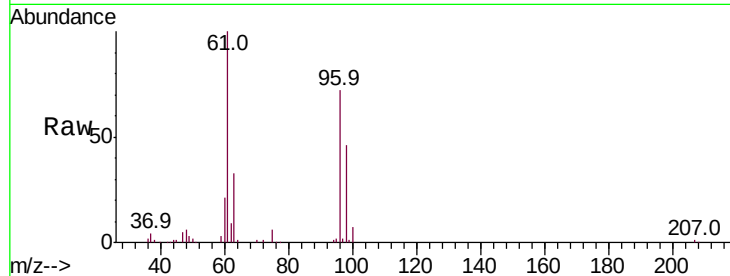
Tot Ion: 96 Resp: 148336

Ion Ratio Lower Upper

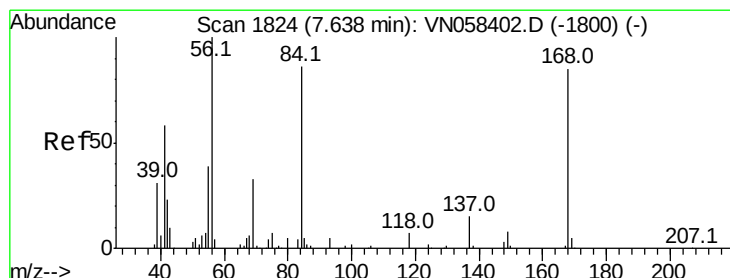
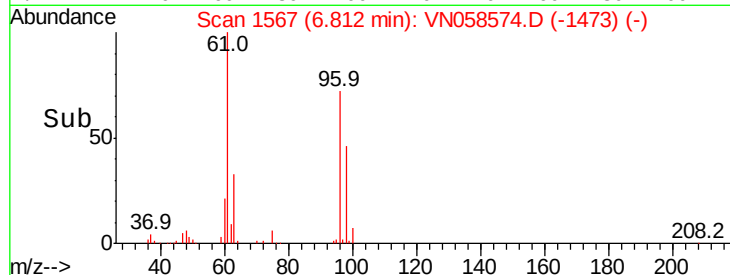
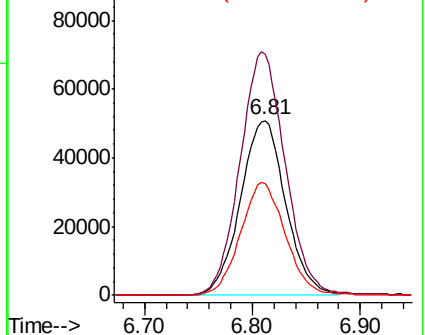
96 100

61 139.1 0.0 318.8

98 64.1 0.0 129.8



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.130 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

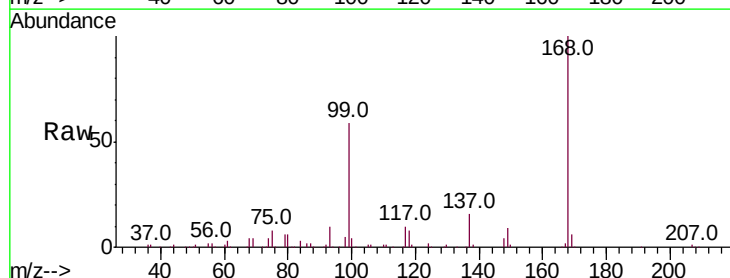
Tgt Ion: 56 Resp: 11679

Ion Ratio Lower Upper

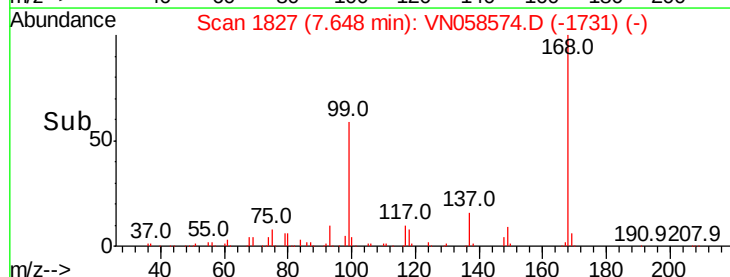
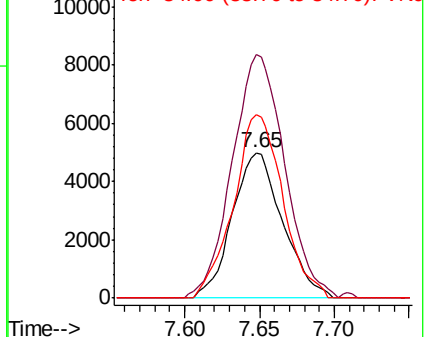
56 100

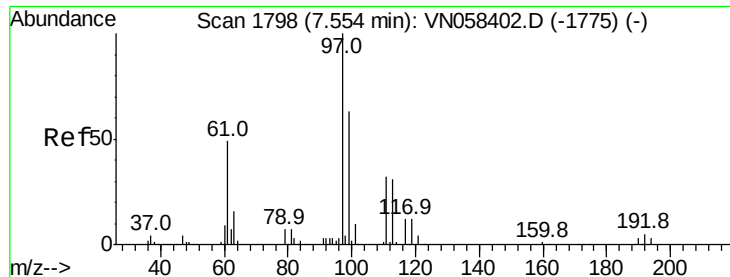
69 167.5 26.2 39.4#

84 125.9 67.6 101.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

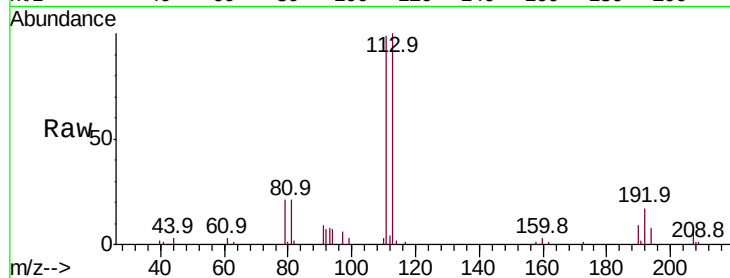




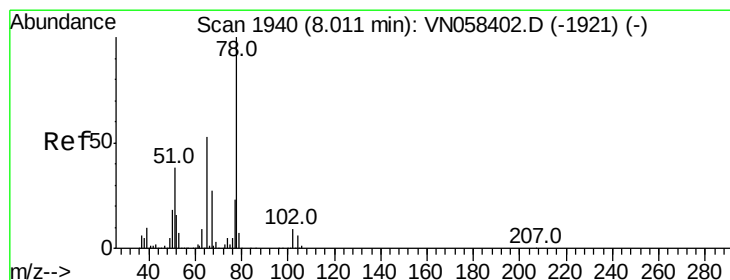
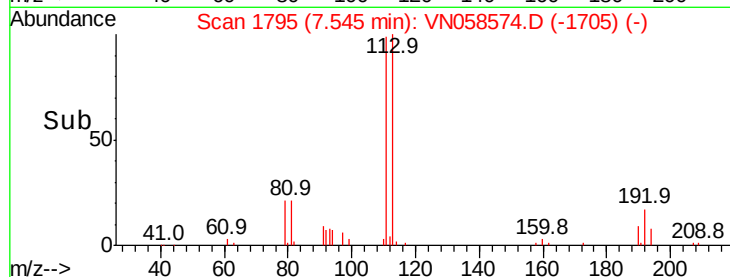
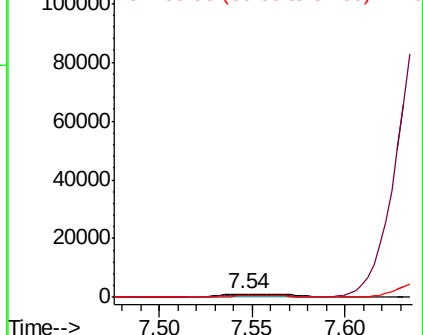
#32
 1,1,1-Trichloroethane
 Concen: 0.345 ug/l
 RT: 7.54 min Scan# 1795
 Delta R.T. -0.01 min
 Lab File: VN058574.D
 Acq: 7 Oct 2019 18:15

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.1	76.7#
61	47.8	39.2	58.8

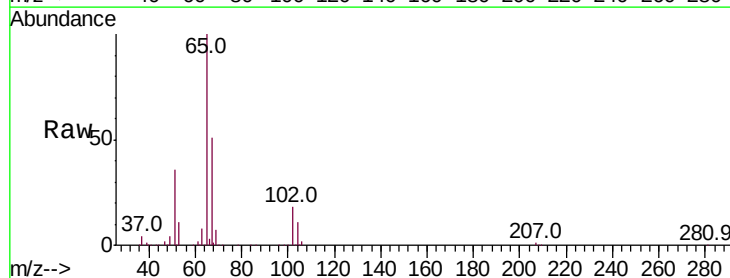


Abundance Ion 96.90 (96.60 to 97.60): VNC
 Ion 98.90 (98.60 to 99.60): VNC
 Ion 60.90 (60.60 to 61.60): VNC

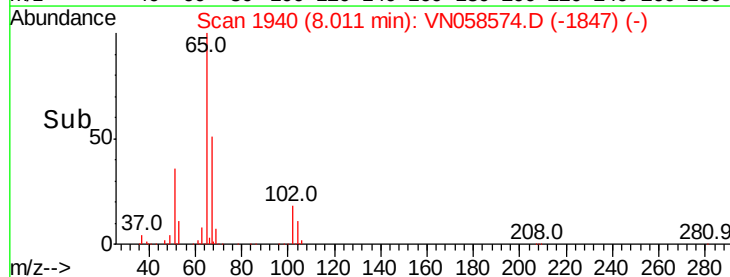
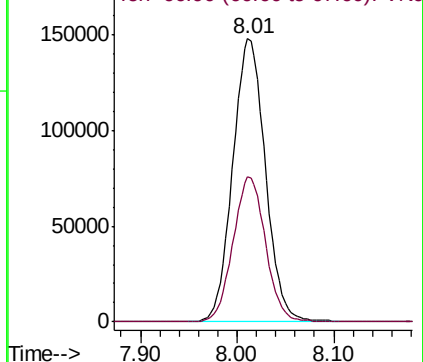


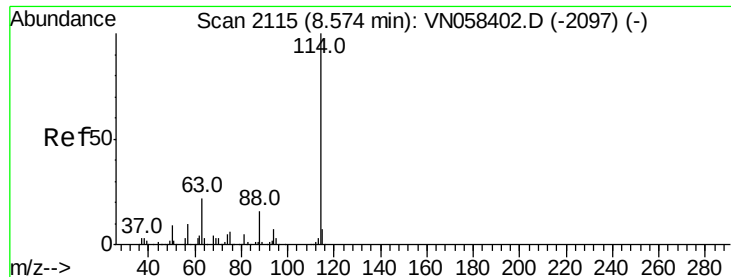
#33
 1,2-Dichloroethane-d4
 Concen: 46.412 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058574.D
 Acq: 7 Oct 2019 18:15

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.0	0.0	102.4



Abundance Ion 64.90 (64.60 to 65.60): VNC
 Ion 66.90 (66.60 to 67.60): VNC

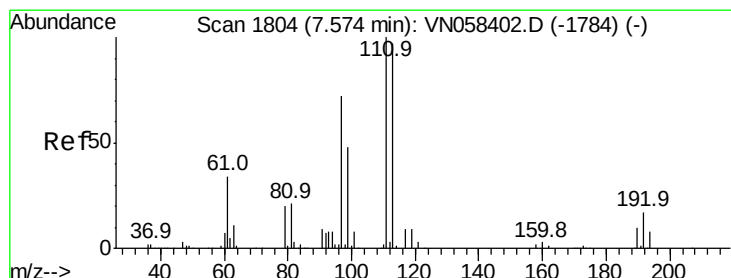
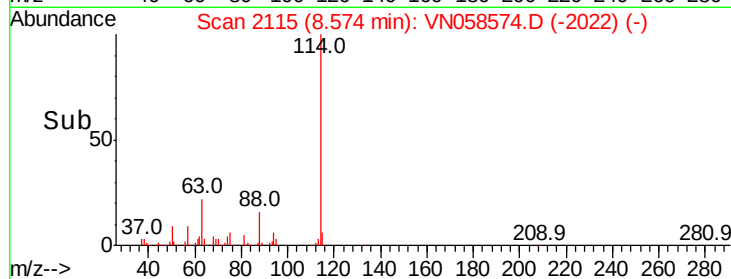
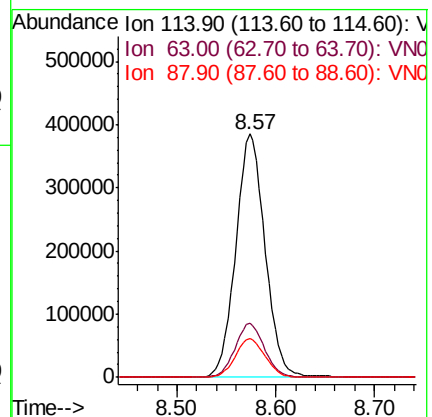
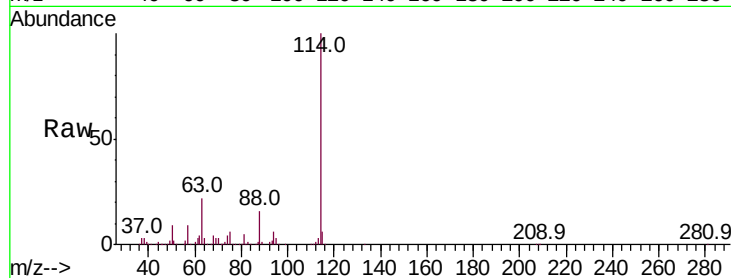




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058574.D
 Acq: 7 Oct 2019 18:15

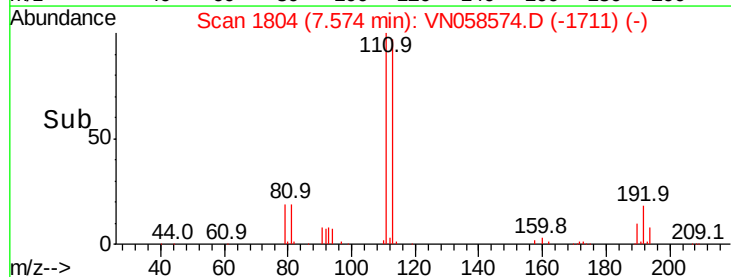
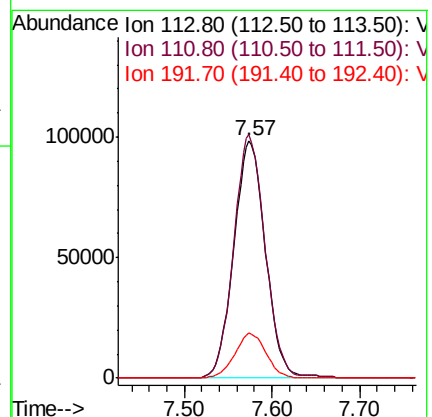
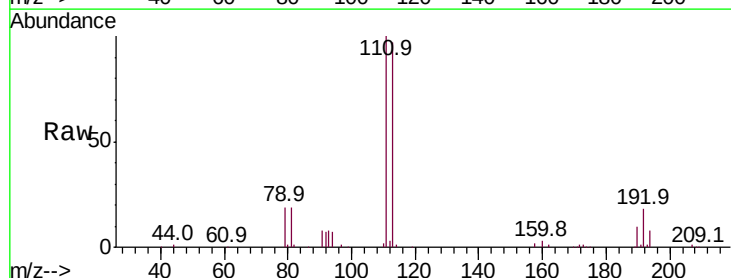
Instrument :
 MSVOA_N
 ClientSampled :

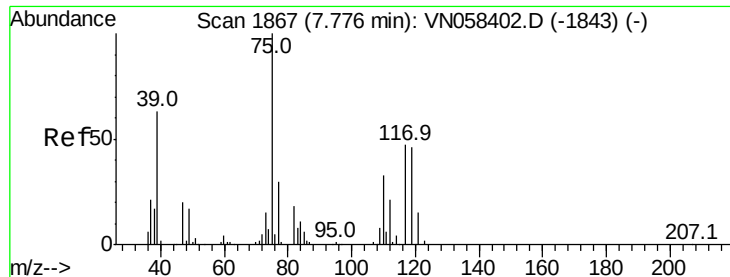
Tot Ion:114 Resp: 795758
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 45.0
 88 16.1 0.0 32.2



#35
 Dibromofluoromethane
 Concen: 50.788 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058574.D
 Acq: 7 Oct 2019 18:15

Tgt Ion:113 Resp: 247700
 Ion Ratio Lower Upper
 113 100
 111 102.0 83.4 125.2
 192 18.8 14.9 22.3

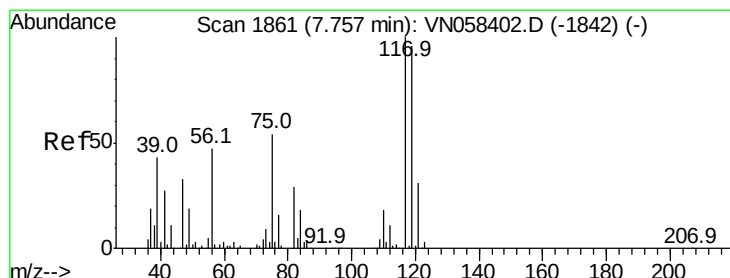
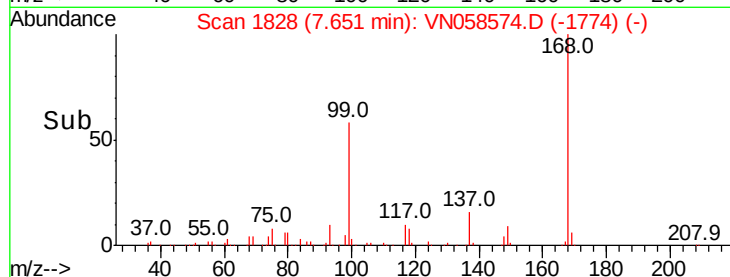
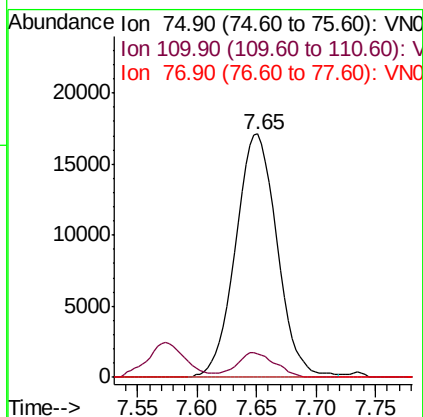
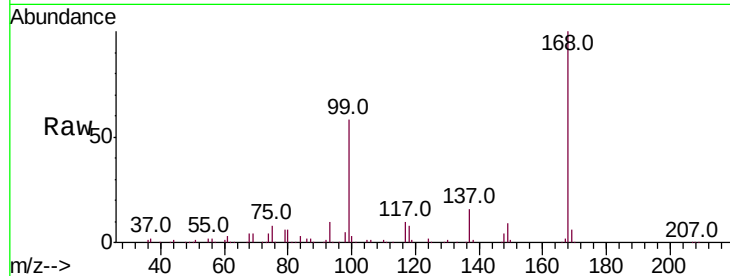




#36
 1,1-Dichloropropene
 Concen: 5.444 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058574.D
 Acq: 7 Oct 2019 18:15

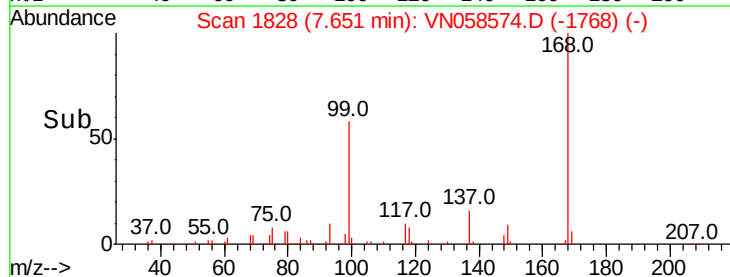
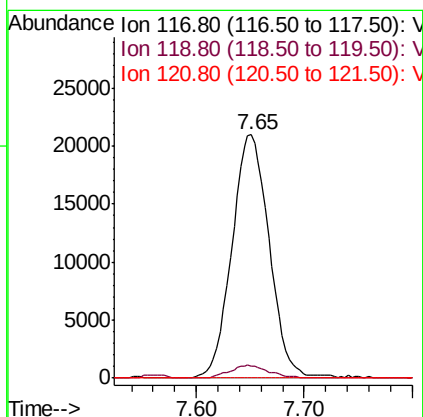
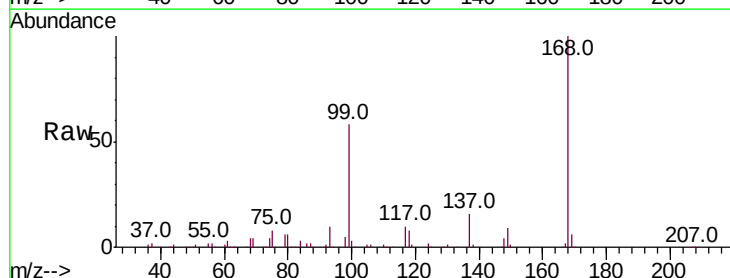
Instrument :
 MSVOA_N
 ClientSampled :

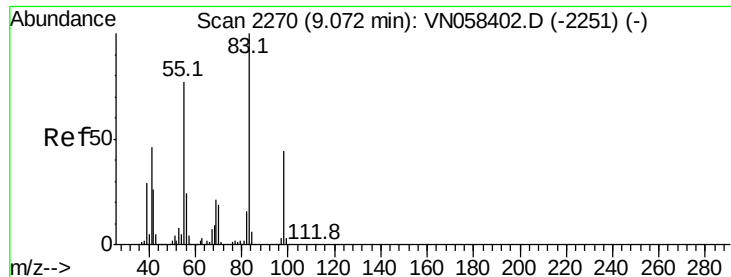
Tot Ion	75	Resp	41424
Ion Ratio	Lower	Upper	
75	100		
110	9.4	16.4	49.2#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 7.346 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058574.D
 Acq: 7 Oct 2019 18:15

Tgt Ion	117	Resp	50457
Ion Ratio	Lower	Upper	
117	100		
119	5.1	76.6	115.0#
121	0.0	24.7	37.1#





#39

Methvlcvclohexane

Concen: 0.214 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.25 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

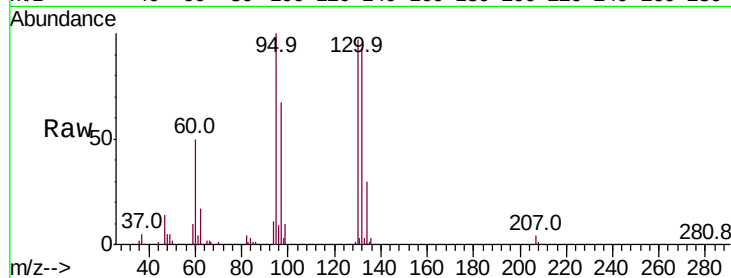
Tot Ion: 83 Resp: 1899

Ion Ratio Lower Upper

83 100

55 0.0 61.8 92.6#

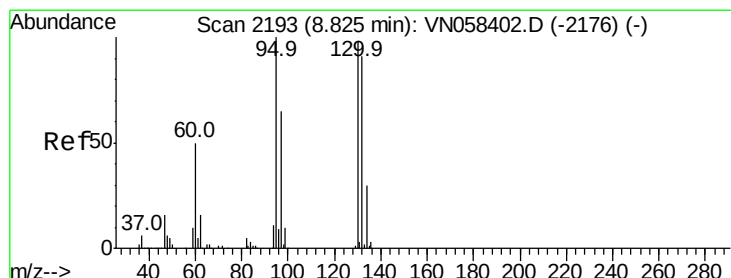
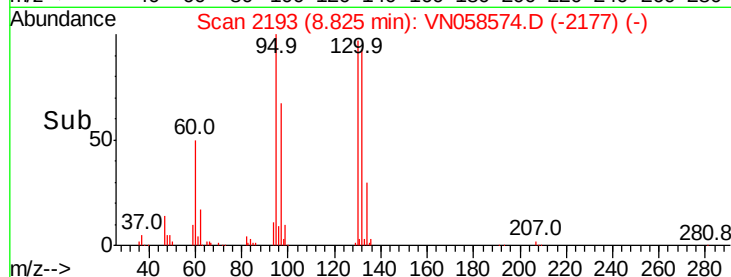
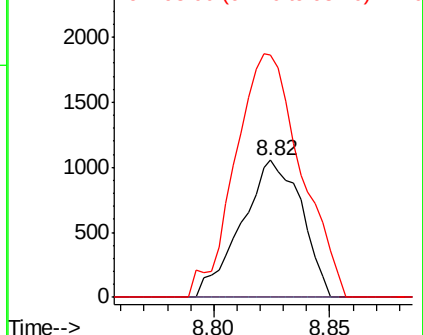
98 176.8 35.4 53.0#



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0



#44

Trichloroethene

Concen: 26.667 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058574.D

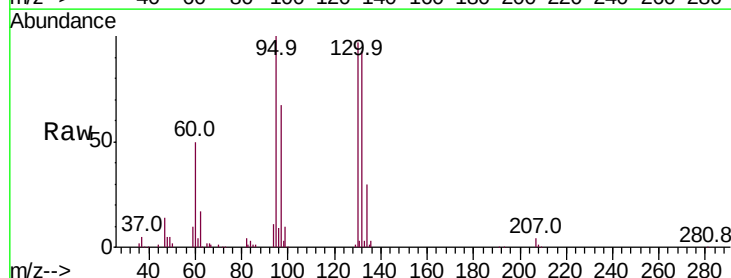
Acq: 7 Oct 2019 18:15

Tgt Ion:130 Resp: 144016

Ion Ratio Lower Upper

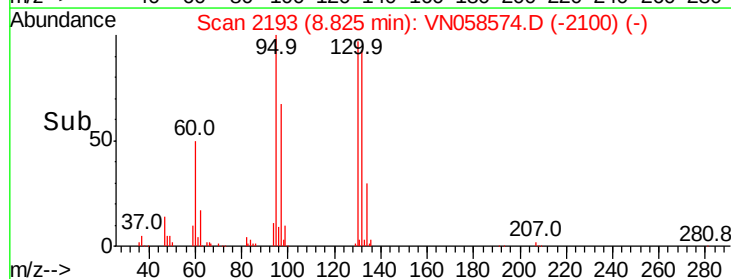
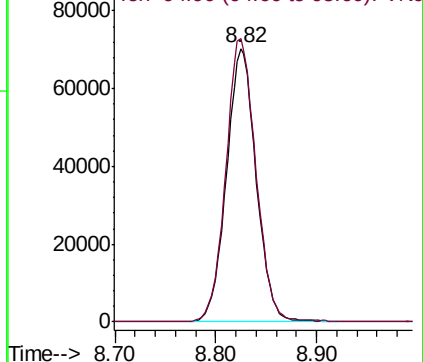
130 100

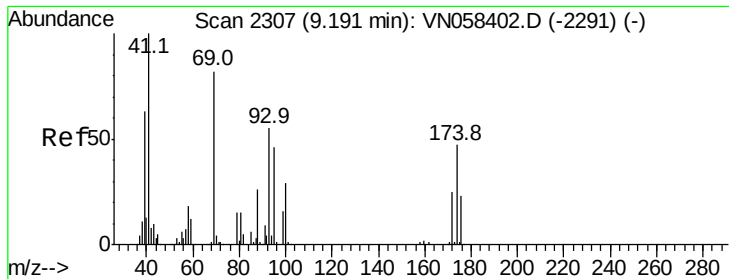
95 103.5 0.0 204.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#49

1,4-Dioxane

Concen: 13.038 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Instrument :
MSVOA_N
ClientSampled :

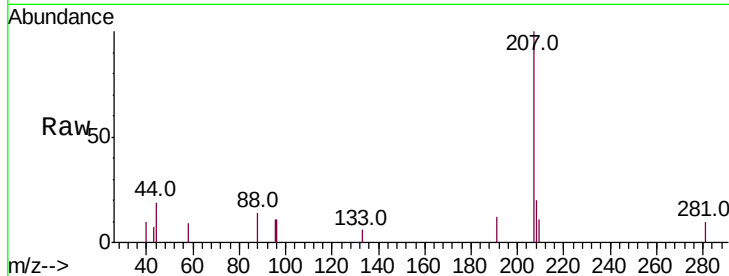
Tot Ion: 88 Resp: 963

Ion Ratio Lower Upper

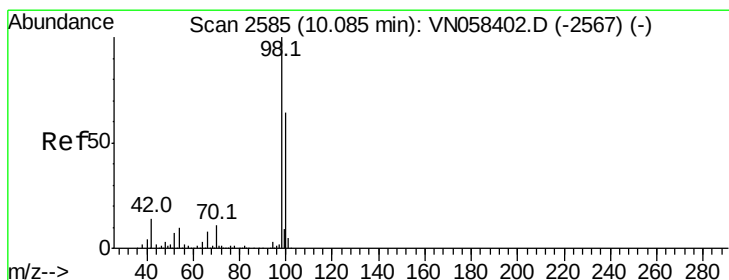
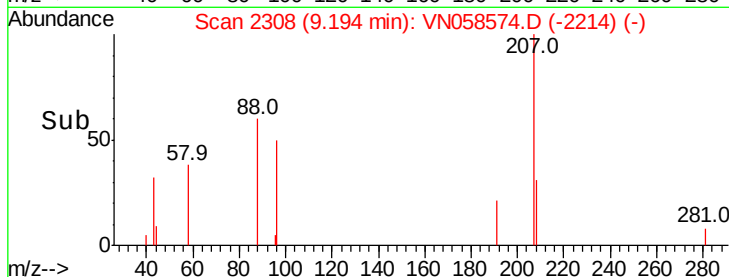
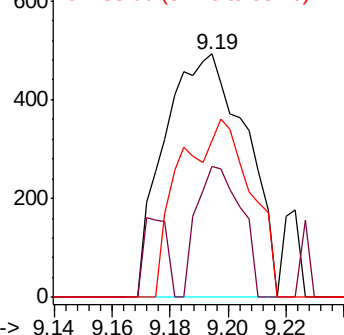
88 100

43 29.4 31.1 46.7#

58 63.1 58.1 87.1



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



#50

Toluene-d8

Concen: 51.890 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058574.D

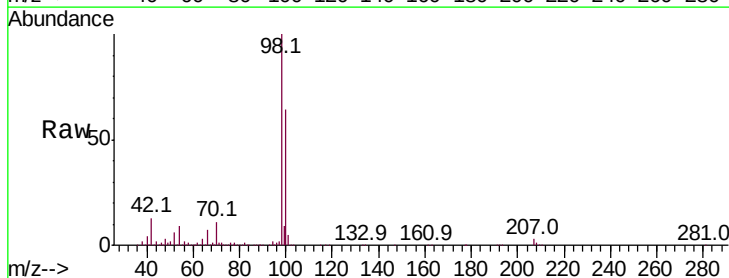
Acq: 7 Oct 2019 18:15

Tgt Ion: 98 Resp: 991402

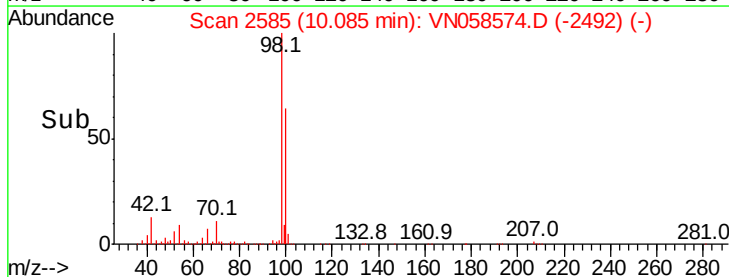
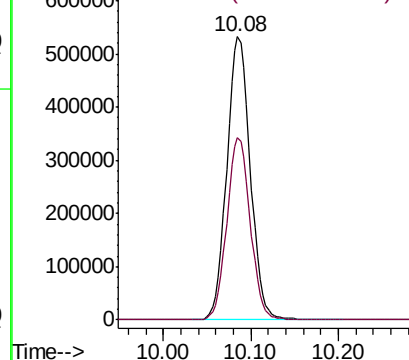
Ion Ratio Lower Upper

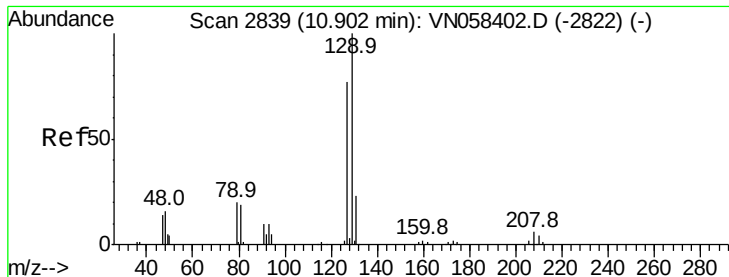
98 100

100 64.1 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#60

Dibromochloromethane

Concen: 1.066 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.28 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Instrument :

MSVOA_N

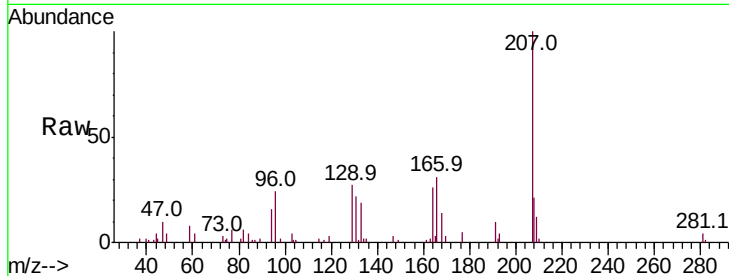
ClientSampled :

Tot Ion:129 Resp: 8342

Ion Ratio Lower Upper

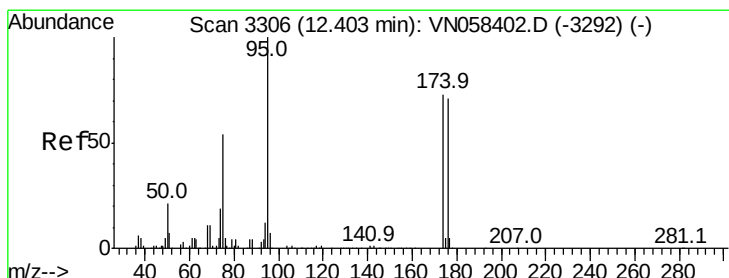
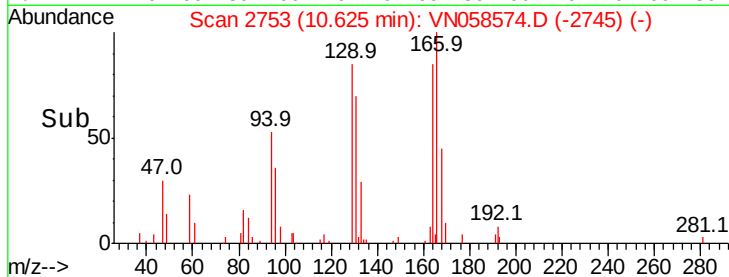
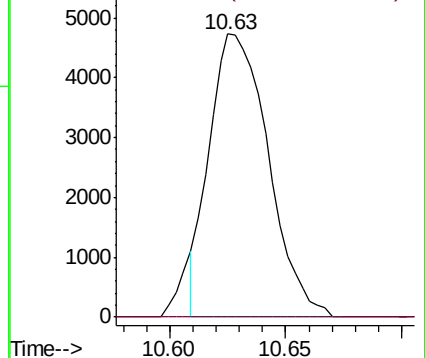
129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.963 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

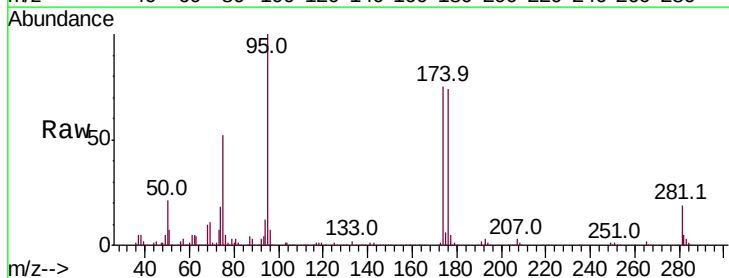
Tgt Ion: 95 Resp: 338250

Ion Ratio Lower Upper

95 100

174 75.2 0.0 150.6

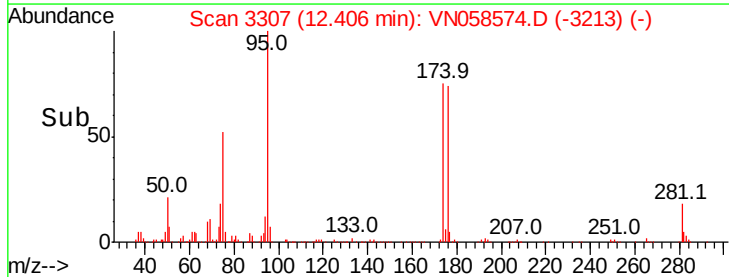
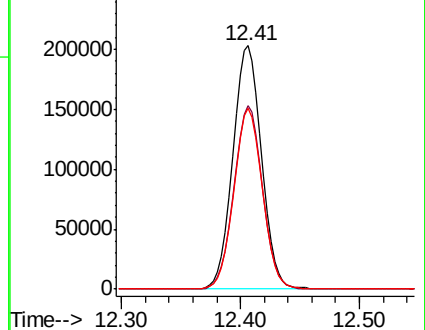
176 73.6 0.0 146.2

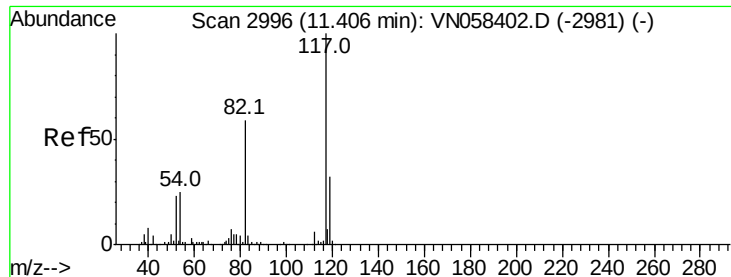


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Instrument :

MSVOA_N

ClientSampleId :

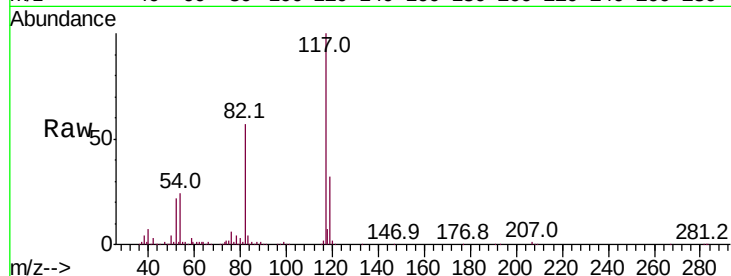
Tot Ion:117 Resp: 703294

Ion Ratio Lower Upper

117 100

82 57.2 47.4 71.0

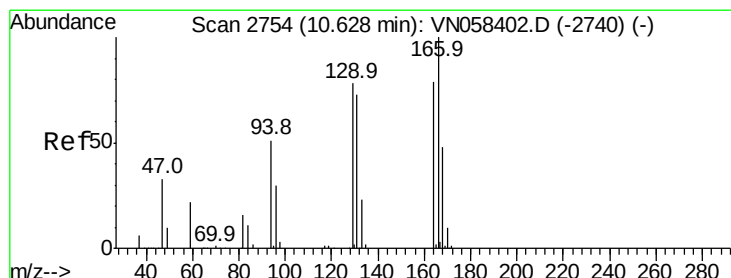
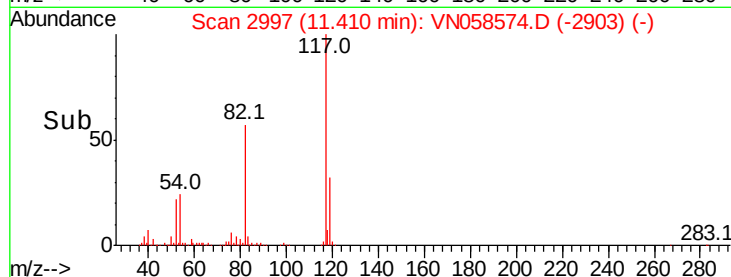
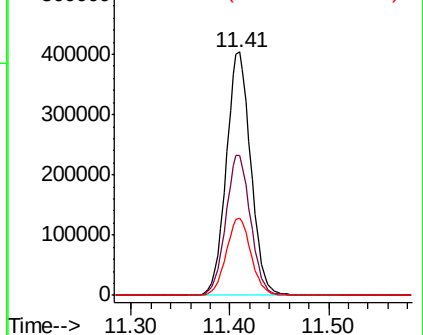
119 31.8 25.5 38.3



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



#64

Tetrachloroethene

Concen: 2.001 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Tgt Ion:164 Resp: 8943

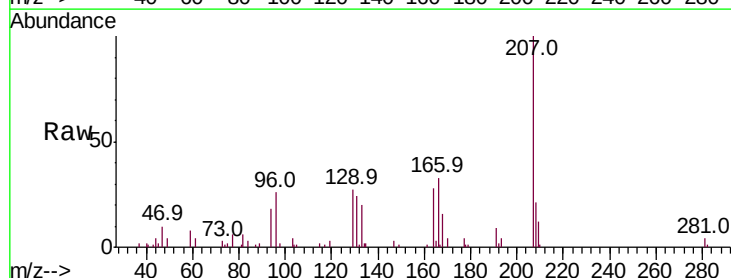
Ion Ratio Lower Upper

164 100

166 119.8 101.1 151.7

129 97.4 79.2 118.8

131 87.1 74.1 111.1

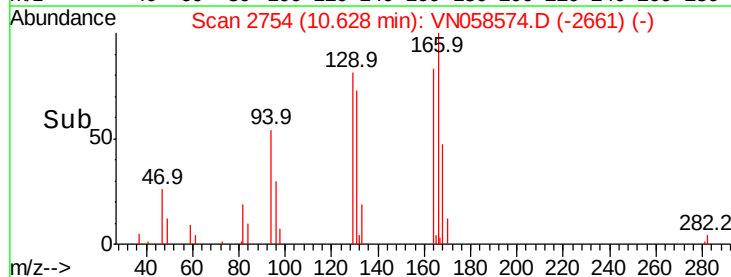
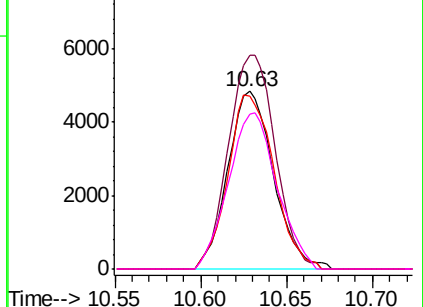


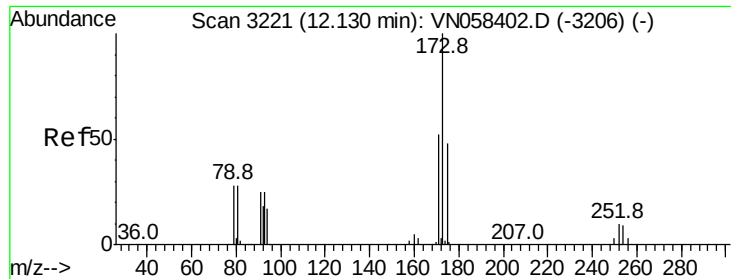
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 1.072 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Instrument :

MSVOA_N

ClientSampled :

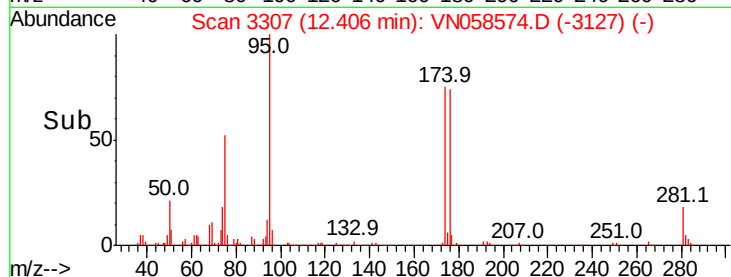
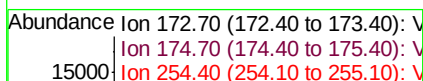
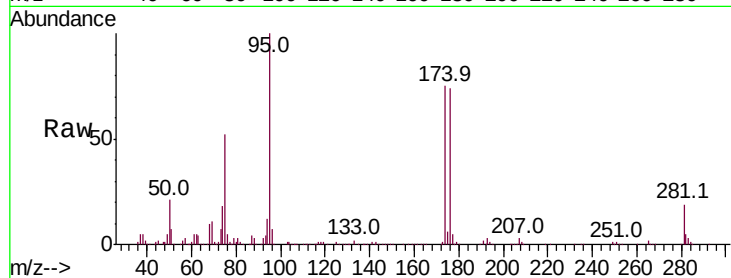
Tot Ion:173 Resp: 1246

Ion Ratio Lower Upper

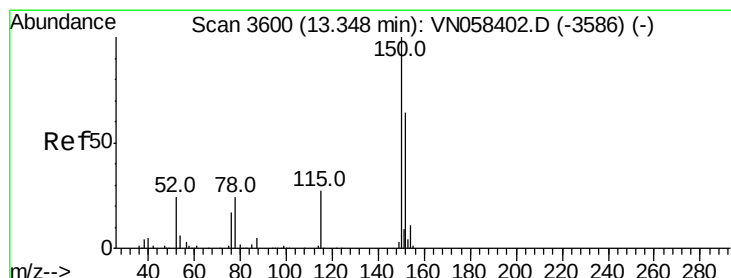
173 100

175 1330.4 24.3 73.0#

254 0.0 0.1 0.1#



Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

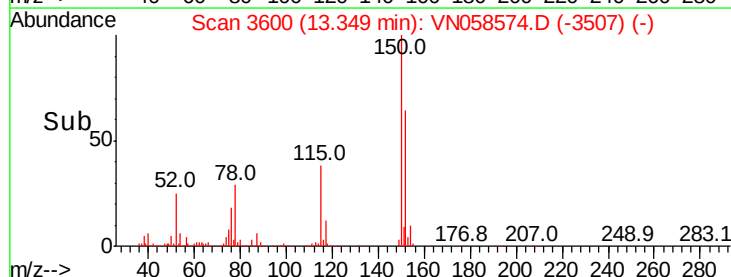
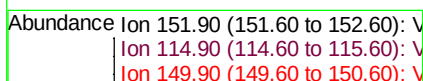
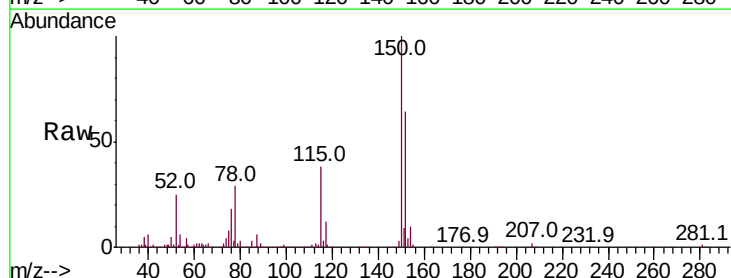
Tgt Ion:152 Resp: 288051

Ion Ratio Lower Upper

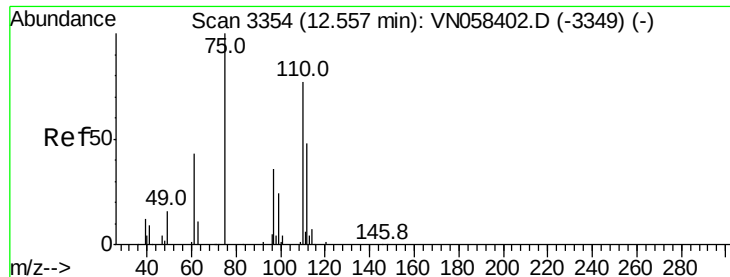
152 100

115 61.1 30.0 90.0

150 158.9 0.0 348.2



Time-->



#76

1,2,3-Trichloropropane

Concen: 33.488 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

Instrument :

MSVOA_N

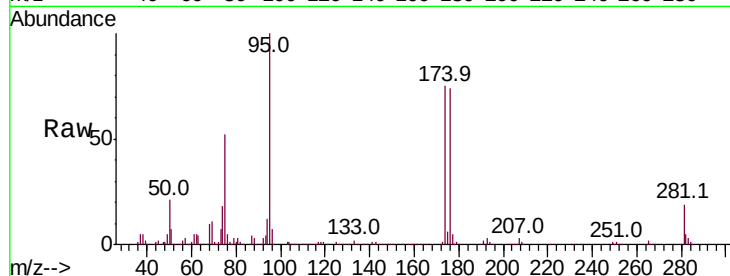
ClientSampleId :

Tot Ion: 75 Resp: 176187

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

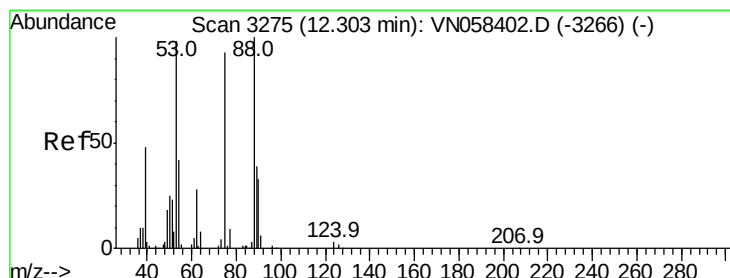
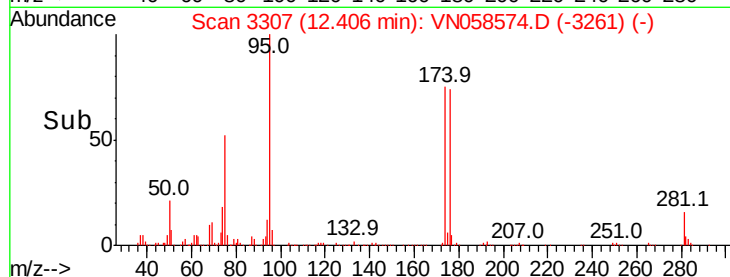
40000

20000

0

12.35 12.40 12.45 12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 101.706 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058574.D

Acq: 7 Oct 2019 18:15

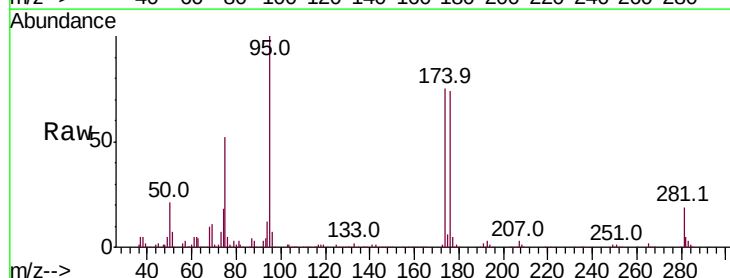
Tgt Ion: 75 Resp: 176187

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

89 0.3 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

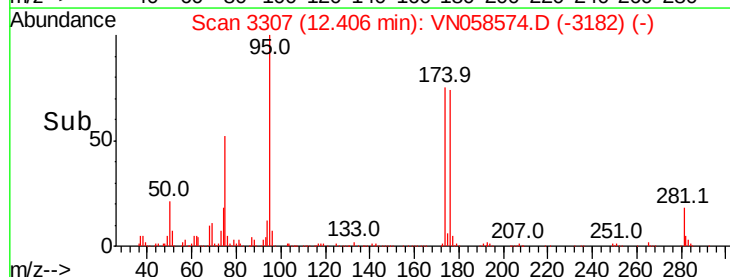
100000

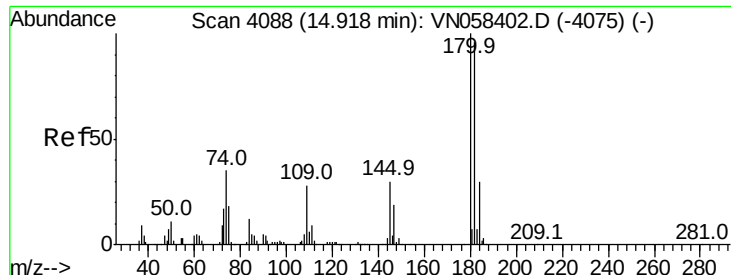
50000

0

12.35 12.40 12.45 12.50

Time-->





#93
 1,2,4-Trichlorobenzene
 Concen: 0.236 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058574.D
 Acq: 7 Oct 2019 18:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 1132
 Ion Ratio Lower Upper
 180 100
 182 69.4 47.4 142.3
 145 12.4 15.3 45.9#

