

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121319\
 Data File : VN059590.D
 Acq On : 13 Dec 2019 17:50
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 13 23:20:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 23:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	260154	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	425449	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	373851	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	155591	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	192825	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
35) Dibromofluoromethane	7.57	113	131184	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
50) Toluene-d8	10.08	98	510437	48.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.86%	
62) 4-Bromofluorobenzene	12.40	95	173564	45.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.26%	

Target Compounds

						Qvalue
3) Chloromethane	2.04	50	1146	0.215	ug/l #	73
5) Bromomethane	2.54	94	1660	0.564	ug/l #	56
10) Methyl Iodide	3.93	142	1061	0.287	ug/l #	83
11) Tert butyl alcohol	4.75	59	207	0.298	ug/l #	72
13) Acrolein	3.58	56	1004	2.031	ug/l	100
14) Allyl chloride	4.30	41	1201	0.214	ug/l #	59
16) Acetone	3.79	43	2341	1.042	ug/l	91
17) Carbon Disulfide	4.03	76	10656	2.913	ug/l	96
21) trans-1,2-Dichloroethene	5.01	96	1188	0.391	ug/l #	91
23) Vinyl Acetate	5.88	43	2157	0.266	ug/l #	74
25) 2-Butanone	6.81	43	2697	1.003	ug/l	99
28) Bromochloromethane	7.17	49	127	0.521	ug/l #	74
29) Tetrahydrofuran	7.20	42	960	0.586	ug/l #	41
31) Cyclohexane	7.64	56	6160	1.114	ug/l #	1
36) 1,1-Dichloropropene	7.77	75	1047	0.236	ug/l #	60
38) Carbon Tetrachloride	7.64	117	25957	5.638	ug/l #	17
41) Methacrylonitrile	7.16	41	427	0.201	ug/l #	100
49) 1,4-Dioxane	9.19	88	503	9.649	ug/l #	70
51) 4-Methyl-2-Pentanone	9.97	43	2273	0.476	ug/l	91
53) t-1,3-Dichloropropene	10.38	75	1114	0.211	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.69	63	1429	0.968	ug/l	96
59) 2-Hexanone	10.75	43	3470	0.921	ug/l	87
64) Tetrachloroethene	10.63	164	889	0.255	ug/l	96
65) Chlorobenzene	11.43	112	2117	0.262	ug/l #	86
68) m/p-Xylenes	11.62	106	1969	0.365	ug/l	89
70) Styrene	11.96	104	2120	0.257	ug/l	97
74) N-amyl acetate	12.07	43	1903	0.340	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	12.50	83	831	0.214	ug/l #	88
76) 1,2,3-Trichloropropane	12.40	75	91799	23.833	ug/l #	100
77) Bromobenzene	12.53	156	1387	0.462	ug/l	87
78) n-propylbenzene	12.59	91	4369	0.303	ug/l	93
79) 2-Chlorotoluene	12.67	91	2814	0.322	ug/l	88
80) 1,3,5-Trimethylbenzene	12.73	105	2377	0.230	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	91799	58.865	ug/l #	11

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 ALS Vial : 9 Sample Multiplier: 1

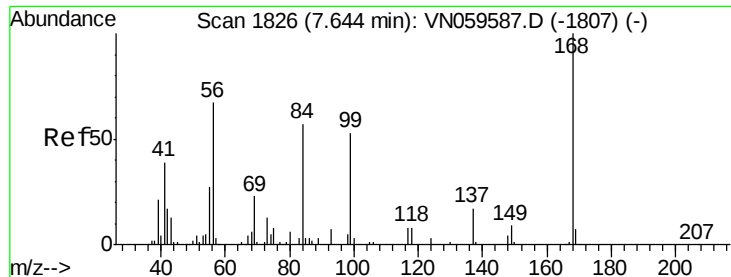
Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 13 23:20:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

82) 4-Chlorotoluene	12.78	91	4246	0.475	ug/l	86
83) tert-Butylbenzene	12.99	119	2271	0.259	ug/l	96
84) 1,2,4-Trimethylbenzene	13.04	105	2897	0.282	ug/l	99
85) sec-Butylbenzene	13.17	105	4684	0.402	ug/l	100
86) p-Isopropyltoluene	13.29	119	4565	0.433	ug/l	97
87) 1,3-Dichlorobenzene	13.28	146	3212	0.582	ug/l	95
88) 1,4-Dichlorobenzene	13.28	146	3212	0.577	ug/l	94
89) n-Butylbenzene	13.62	91	6685	0.676	ug/l	100
90) Hexachloroethane	13.87	117	693	0.348	ug/l	69
91) 1,2-Dichlorobenzene	13.65	146	3169	0.582	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	14.28	75	874	2.397	ug/l	88
93) 1,2,4-Trichlorobenzene	14.91	180	6778	1.927	ug/l	93
94) Hexachlorobutadiene	15.01	225	4114	3.713	ug/l	99
95) Naphthalene	15.13	128	29314	2.792	ug/l	100
96) 1,2,3-Trichlorobenzene	15.29	180	9292	2.612	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

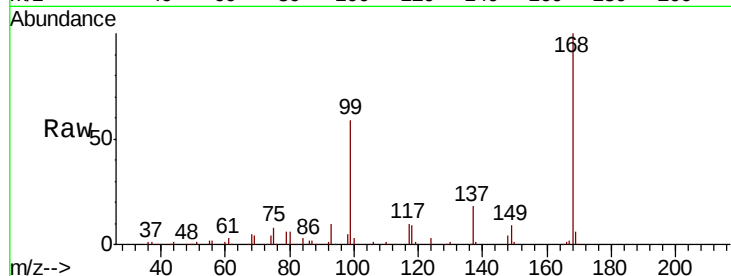
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 260154

Ion Ratio Lower Upper

168 100

99 59.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

120000

100000

80000

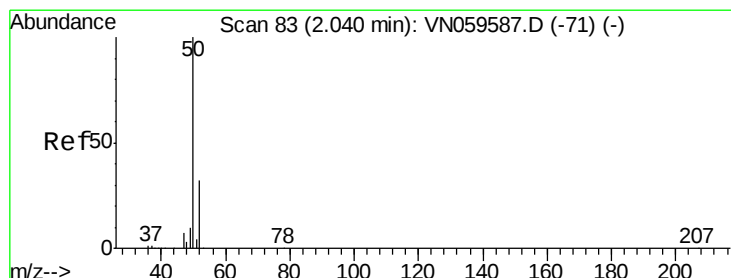
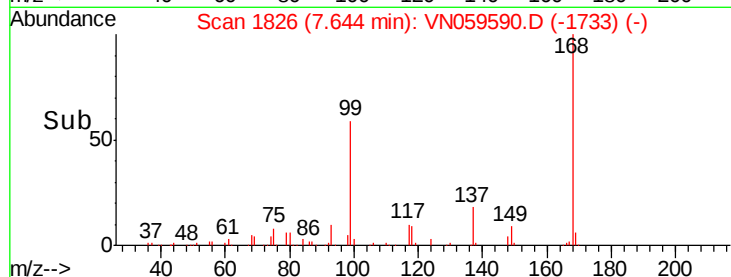
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.215 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059590.D

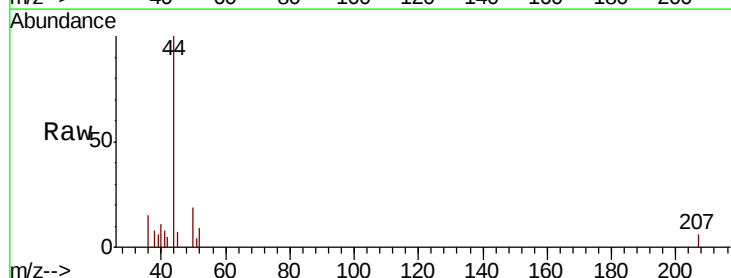
Acq: 13 Dec 2019 17:50

Tgt Ion: 50 Resp: 1146

Ion Ratio Lower Upper

50 100

52 47.3 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

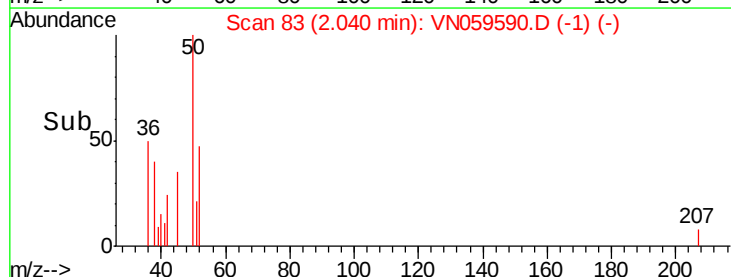
600

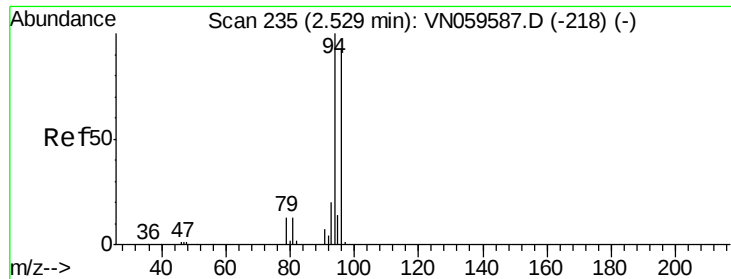
400

200

0

Time-->





#5

Bromomethane

Concen: 0.564 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.01 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

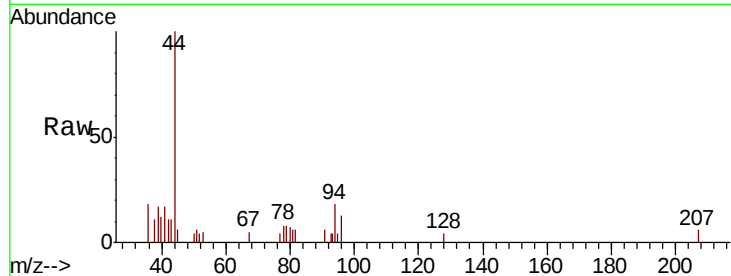
ClientSampleId :

Tot Ion: 94 Resp: 1660

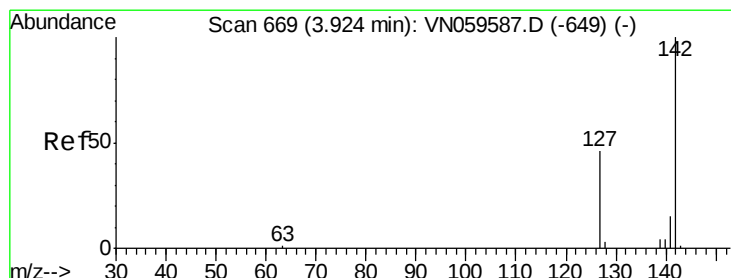
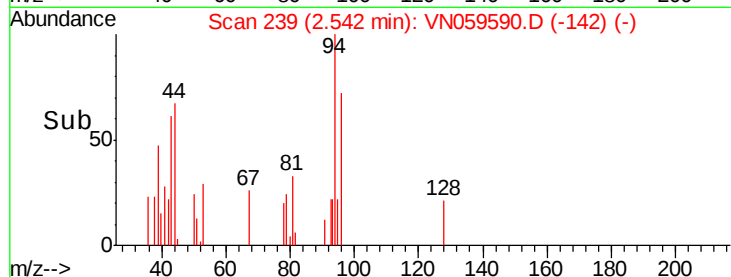
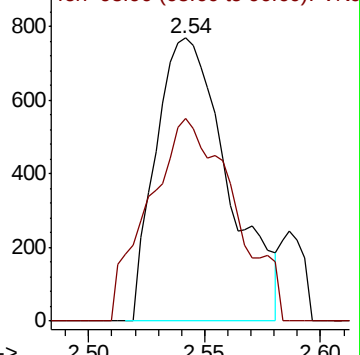
Ion Ratio Lower Upper

94 100

96 50.8 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VN059590.D (-142) (-)



#10

Methyl Iodide

Concen: 0.287 ug/l

RT: 3.93 min Scan# 671

Delta R.T. 0.01 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

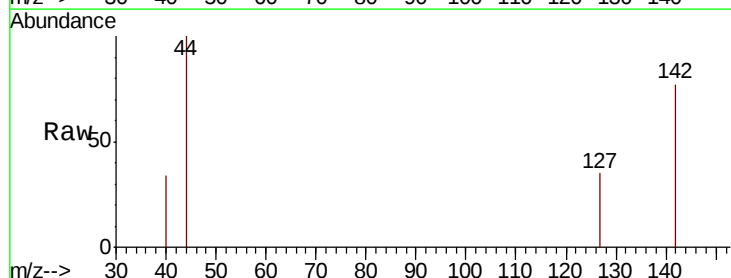
Tgt Ion: 142 Resp: 1061

Ion Ratio Lower Upper

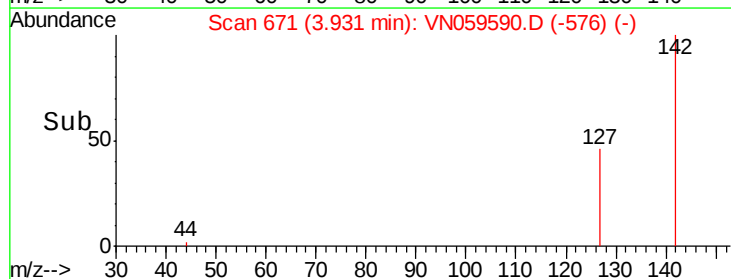
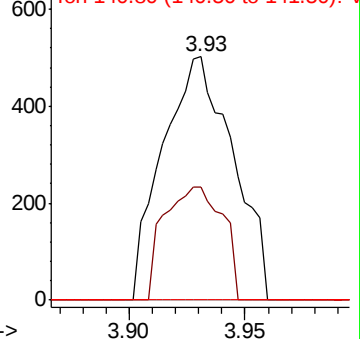
142 100

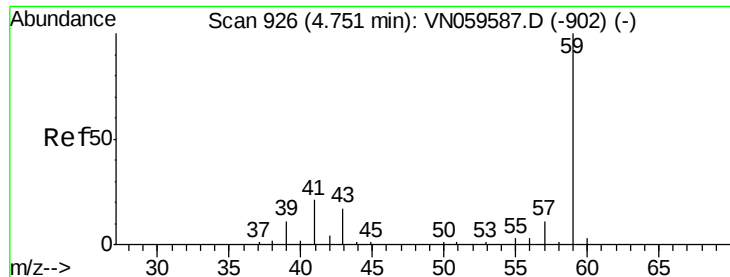
127 38.6 36.7 55.1

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): VN059590.D (-576) (-)

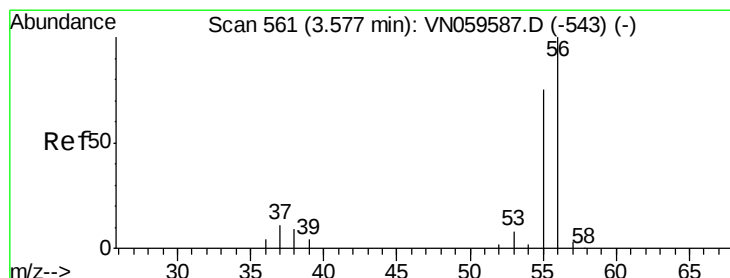
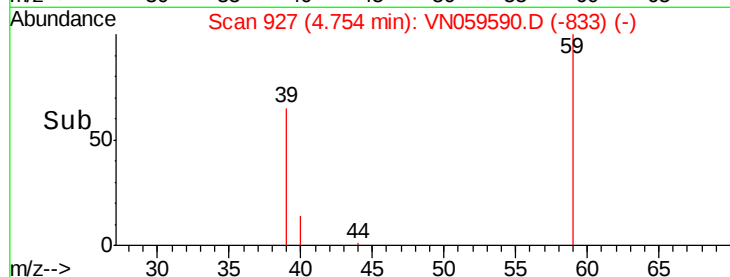
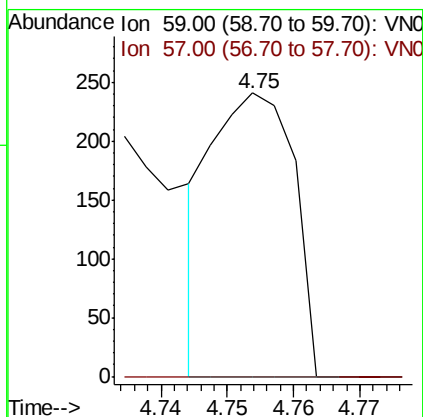
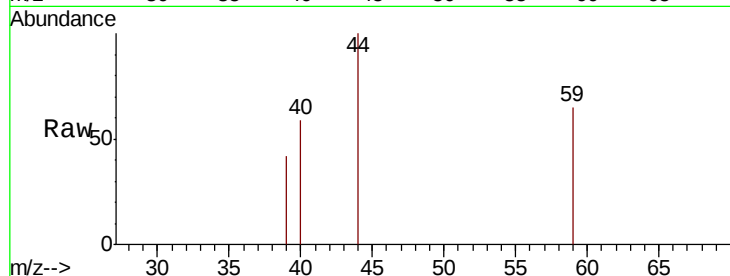




#11
Tert butyl alcohol
Concen: 0.298 ug/l
RT: 4.75 min Scan# 927
Delta R.T. 0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

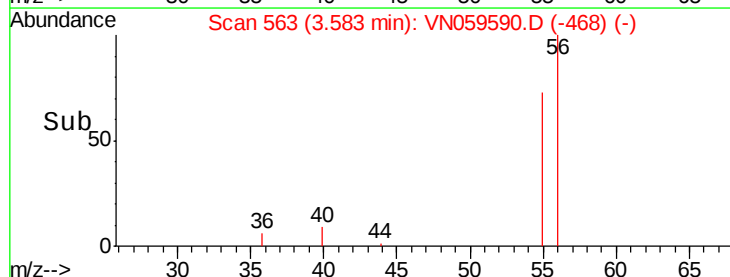
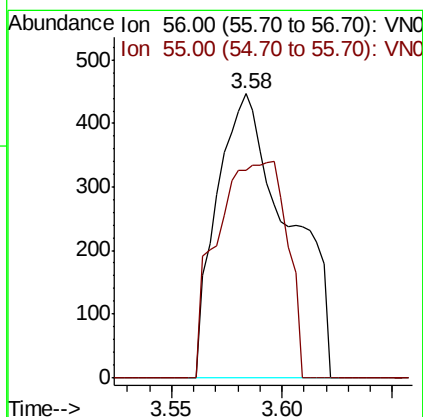
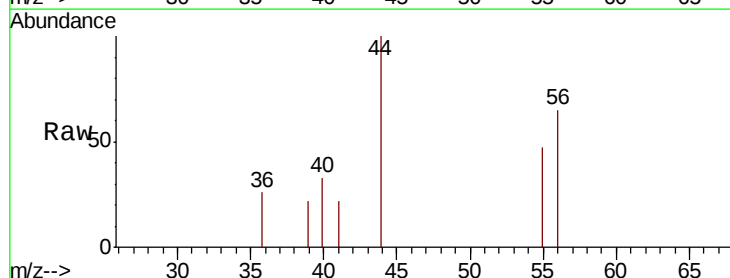
Instrument :
MSVOA_N
ClientSampled :

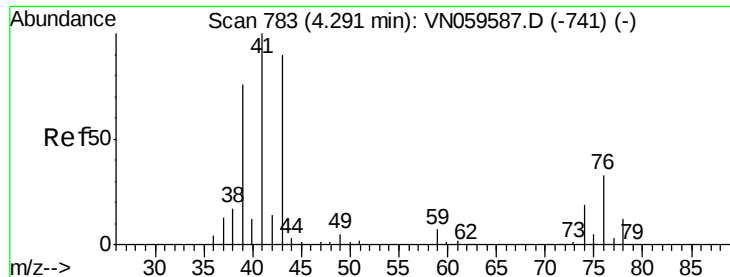
Tot Ion: 59 Resp: 207
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 2.031 ug/l
RT: 3.58 min Scan# 563
Delta R.T. 0.01 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion: 56 Resp: 1004
Ion Ratio Lower Upper
56 100
55 73.4 58.6 88.0





#14

Allvl chloride

Concen: 0.214 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

ClientSampled :

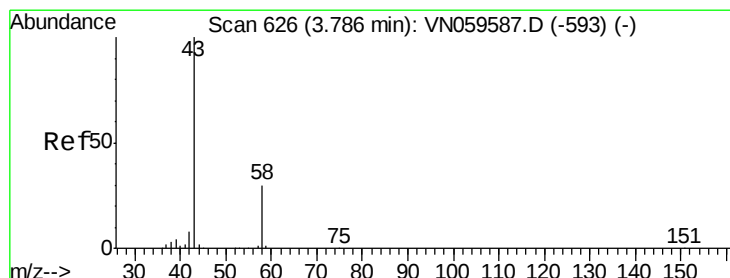
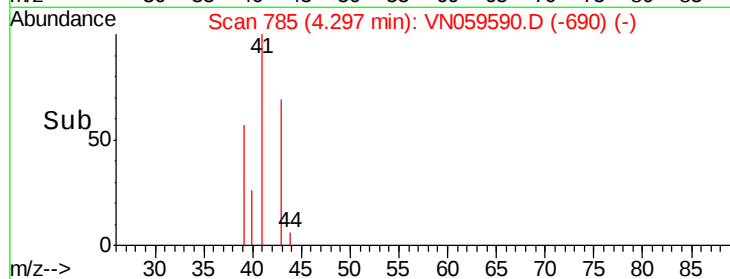
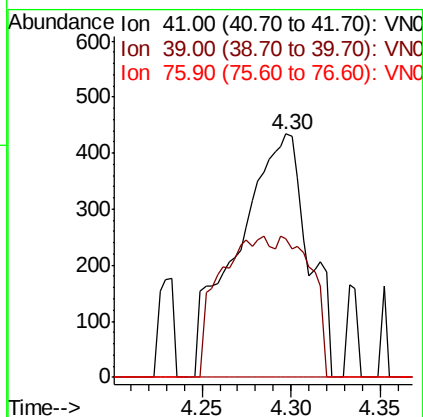
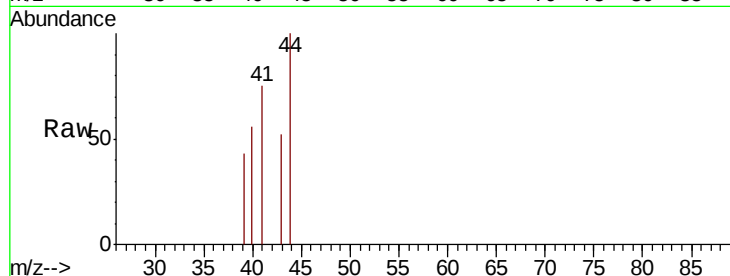
Tot Ion: 41 Resp: 1201

Ion Ratio Lower Upper

41 100

39 44.5 57.8 86.8#

76 0.0 25.4 38.0#



#16

Acetone

Concen: 1.042 ug/l

RT: 3.79 min Scan# 626

Delta R.T. -0.00 min

Lab File: VN059590.D

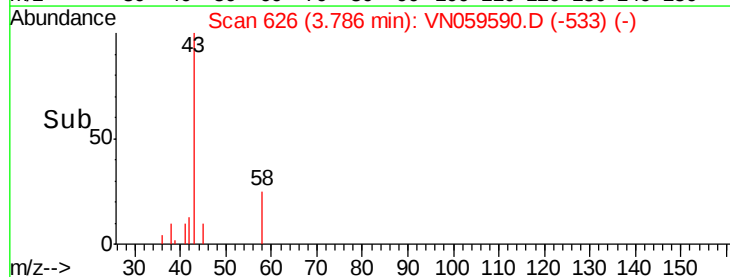
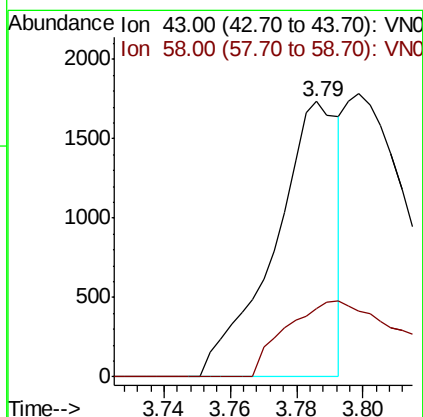
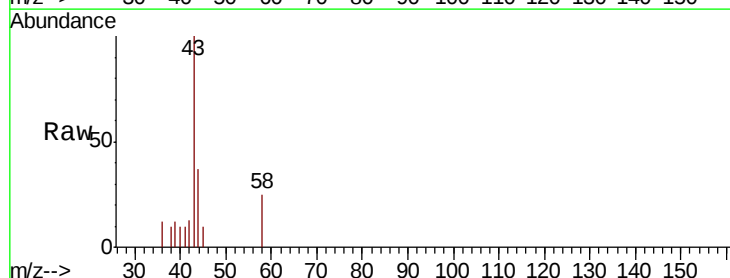
Acq: 13 Dec 2019 17:50

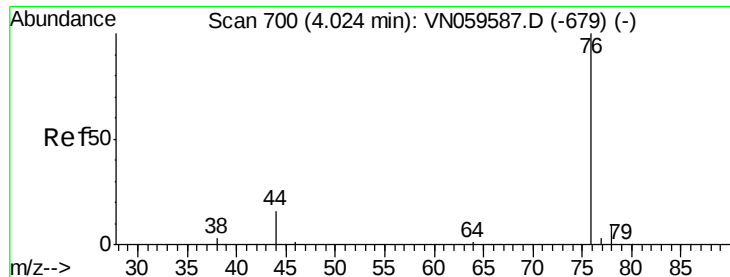
Tgt Ion: 43 Resp: 2341

Ion Ratio Lower Upper

43 100

58 24.7 23.6 35.4

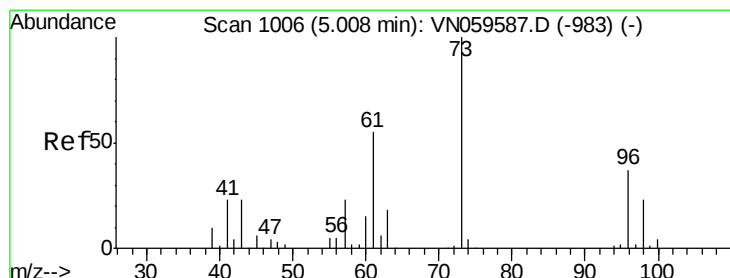
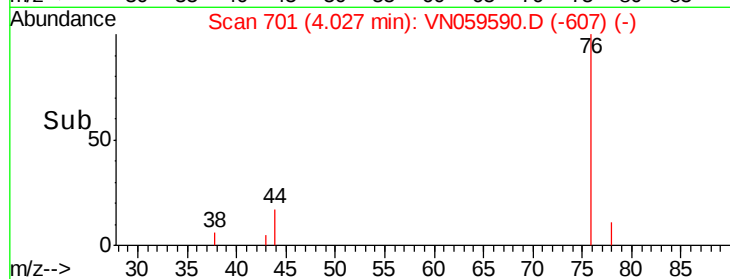
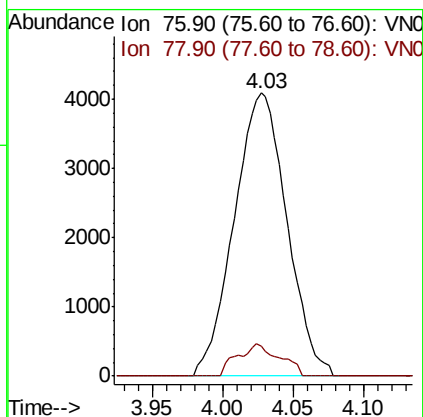
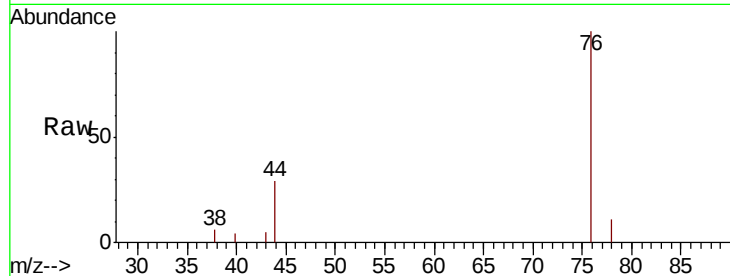




#17
 Carbon Disulfide
 Concen: 2.913 ug/l
 RT: 4.03 min Scan# 701
 Delta R.T. 0.00 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

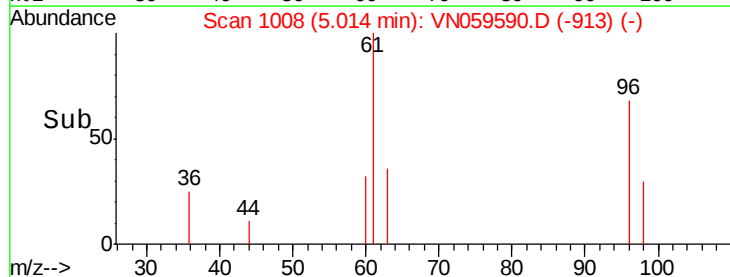
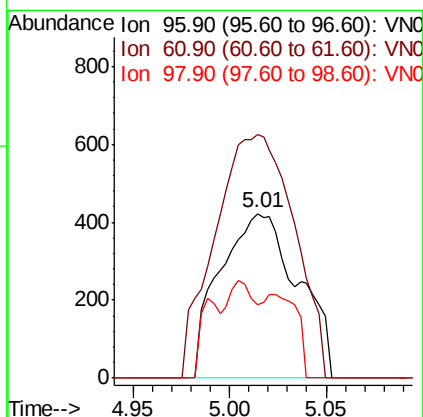
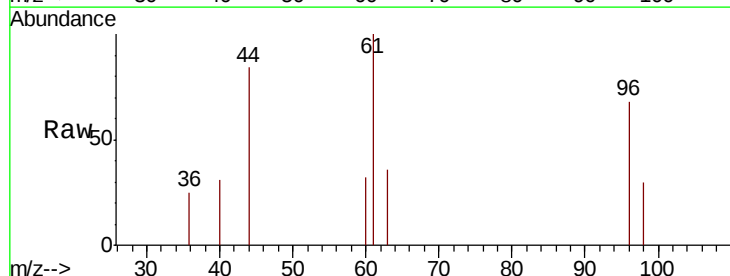
Instrument :
 MSVOA_N
 ClientSampled :

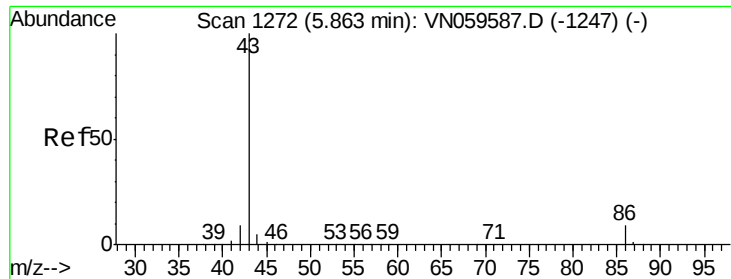
Tot Ion: 76 Resp: 10656
 Ion Ratio Lower Upper
 76 100
 78 10.6 7.4 11.0



#21
 trans-1,2-Dichloroethene
 Concen: 0.391 ug/l
 RT: 5.01 min Scan# 1008
 Delta R.T. 0.01 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

Tgt Ion: 96 Resp: 1188
 Ion Ratio Lower Upper
 96 100
 61 148.1 120.4 180.6
 98 44.3 50.6 75.8#





#23

Vinyl Acetate

Concen: 0.266 ug/l

RT: 5.88 min Scan# 1277

Delta R.T. 0.02 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

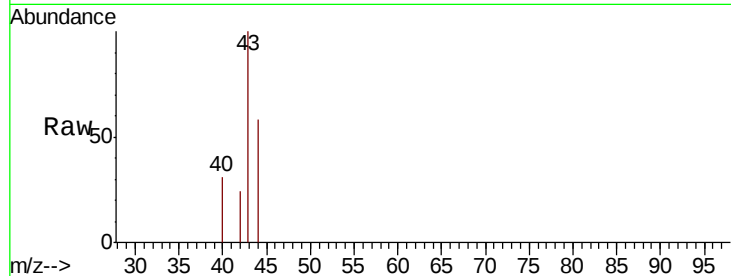
ClientSampled :

Tot Ion: 43 Resp: 2157

Ion Ratio Lower Upper

43 100

86 0.0 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

5.88

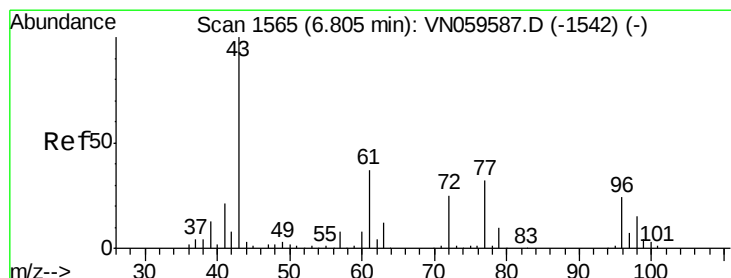
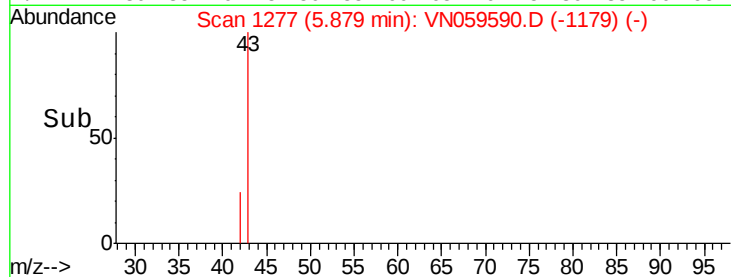
600

400

200

0

Time--> 5.80 5.85 5.90 5.95



#25

2-Butanone

Concen: 1.003 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VN059590.D

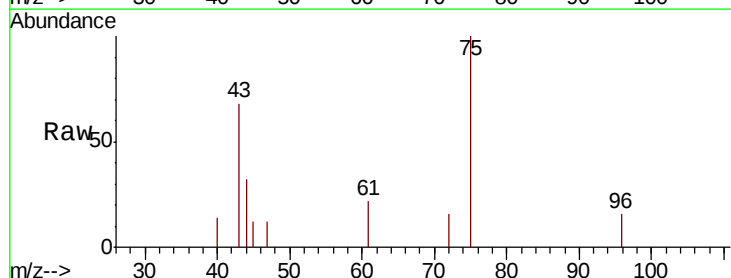
Acq: 13 Dec 2019 17:50

Tgt Ion: 43 Resp: 2697

Ion Ratio Lower Upper

43 100

72 24.2 19.9 29.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

1000

800

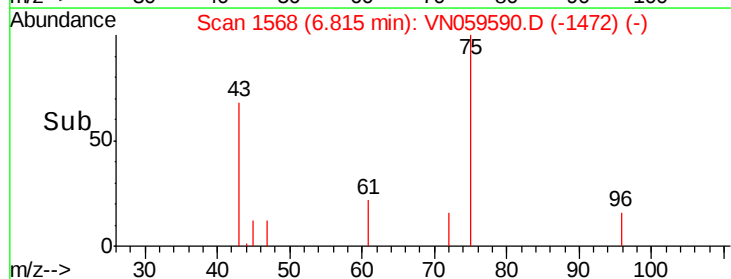
600

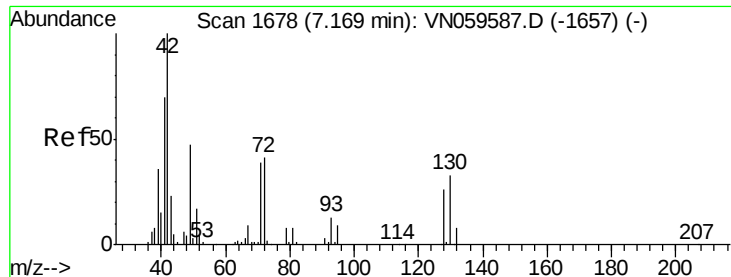
400

200

0

Time--> 6.75 6.80 6.85 6.90

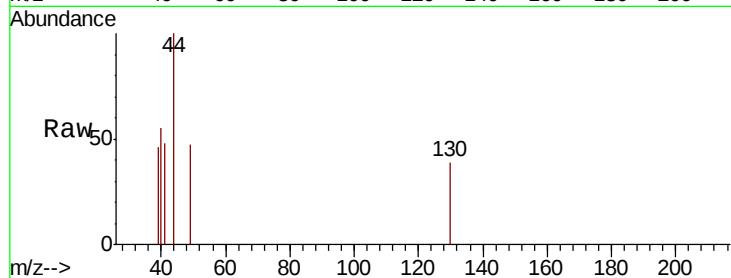




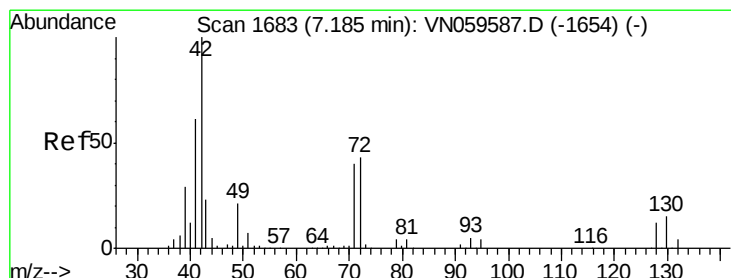
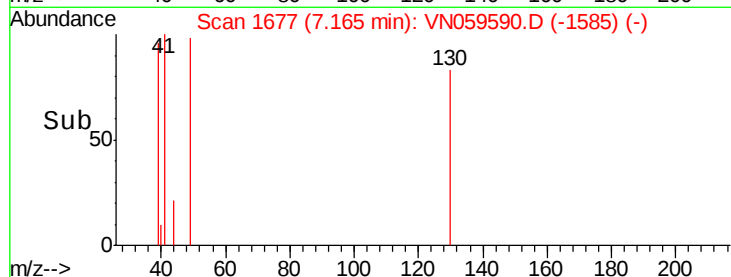
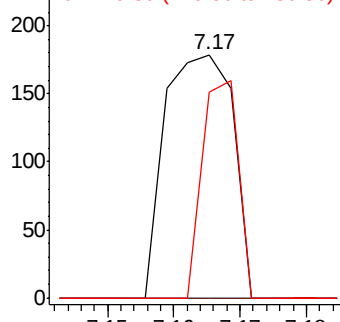
#28
Bromochloromethane
Concen: 0.521 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. -0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 49 Resp: 127
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.4
130 47.2 54.7 82.1#

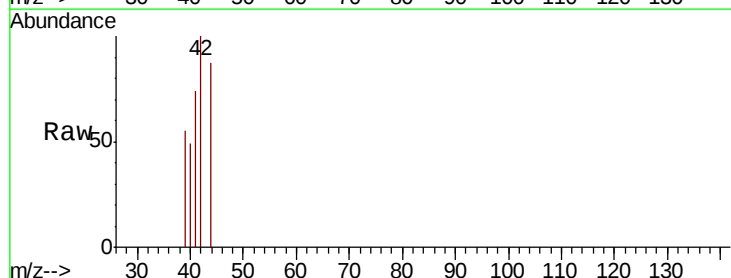


Abundance Ion 48.90 (48.60 to 49.60): VNO
Ion 128.80 (128.50 to 129.50): VNO
Ion 129.80 (129.50 to 130.50): VNO

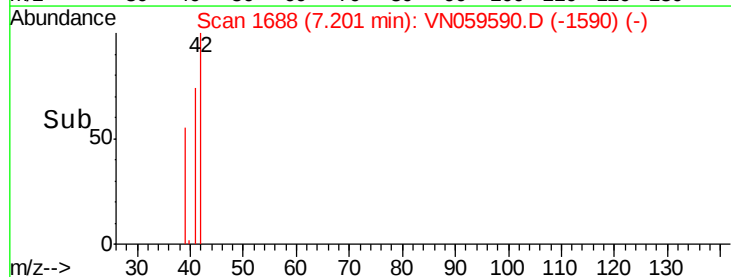
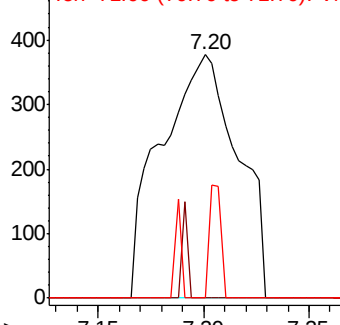


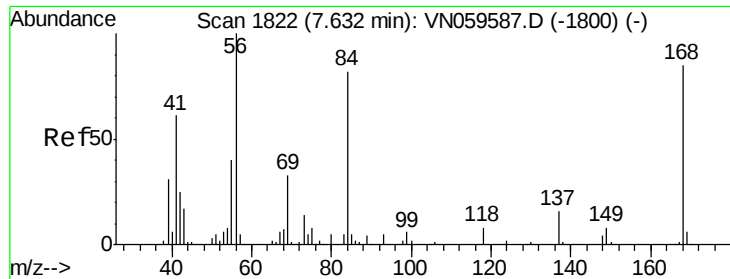
#29
Tetrahydrofuran
Concen: 0.586 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.02 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion: 42 Resp: 960
Ion Ratio Lower Upper
42 100
72 0.0 33.1 49.7#
71 7.0 31.4 47.0#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO

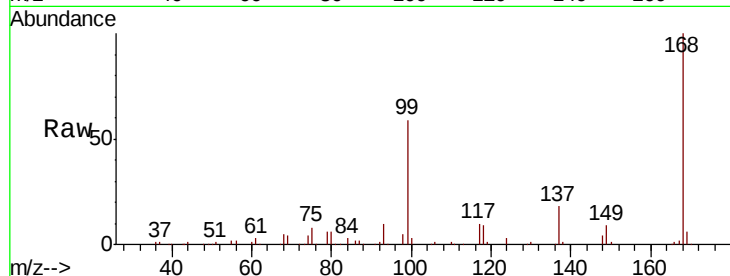




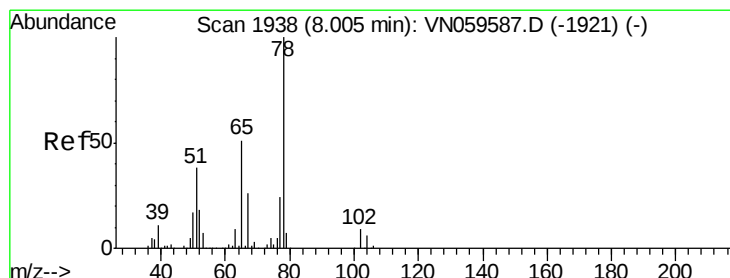
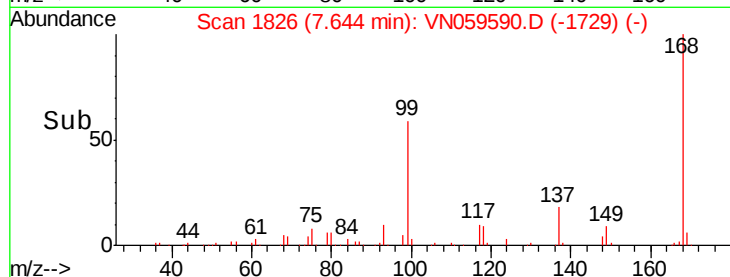
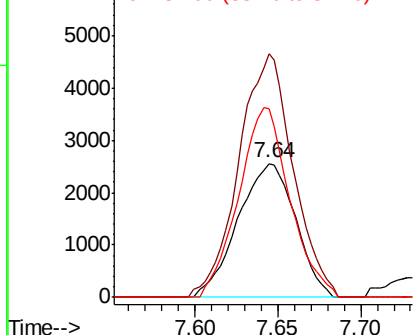
#31
Cyclohexane
Concen: 1.114 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 6160
Ion Ratio Lower Upper
56 100
69 181.9 26.5 39.7#
84 140.6 65.3 97.9#

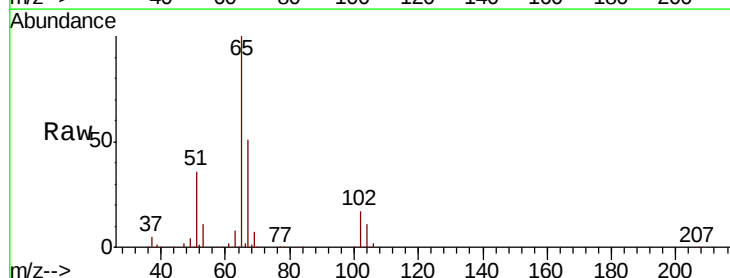


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

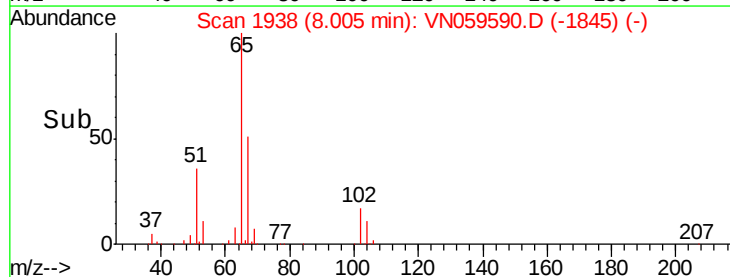
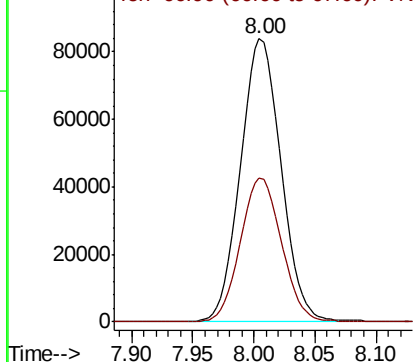


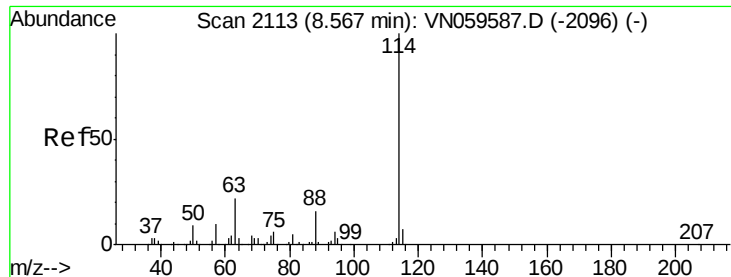
#33
1,2-Dichloroethane-d4
Concen: 50.936 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion: 65 Resp: 192825
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

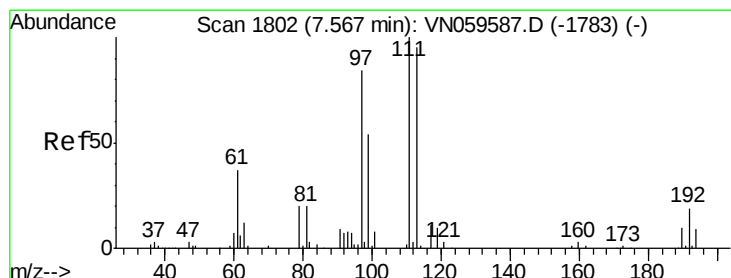
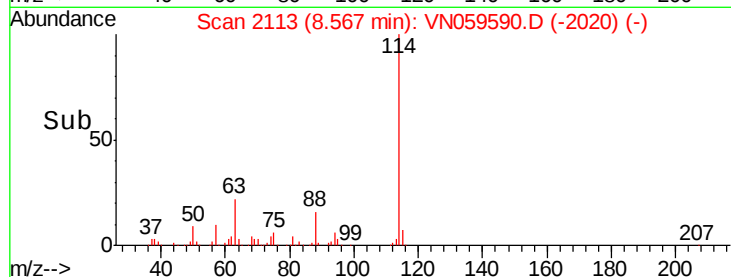
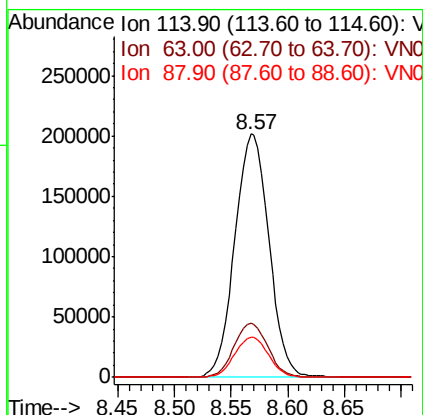
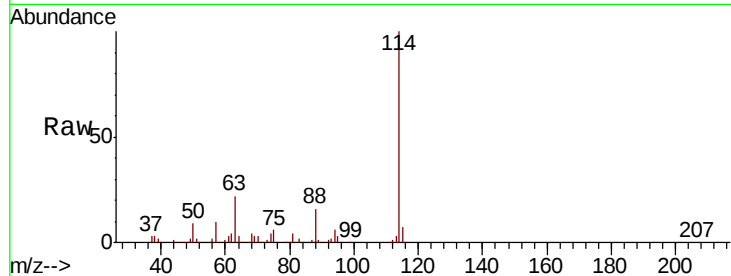




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

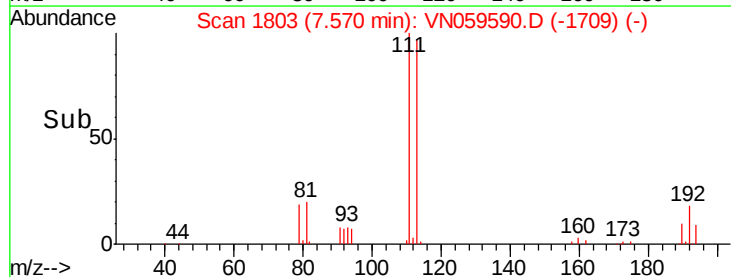
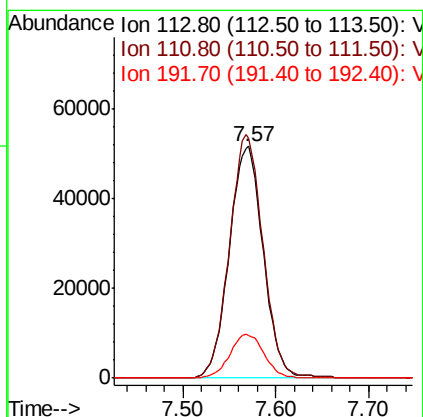
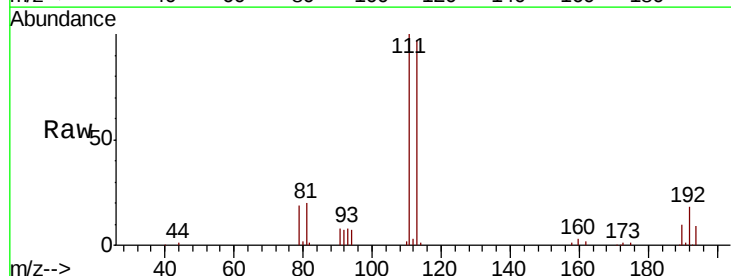
Instrument :
 MSVOA_N
 ClientSampled :

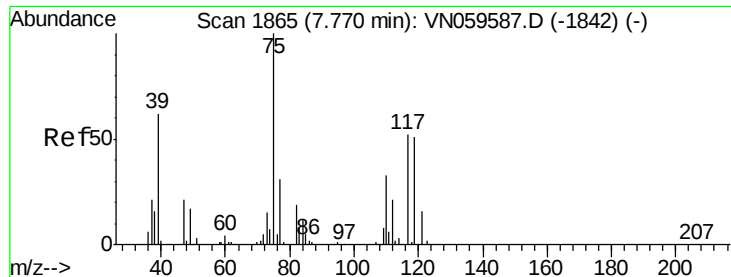
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	43.6
88	16.4	0.0	31.4



#35
 Dibromofluoromethane
 Concen: 49.281 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.5	125.3
192	19.0	15.4	23.2

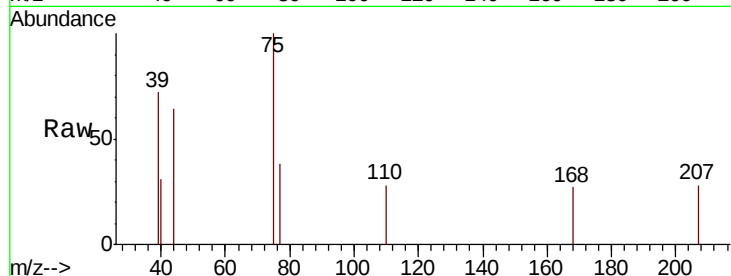




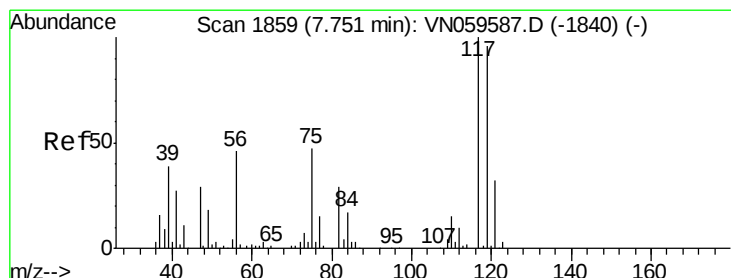
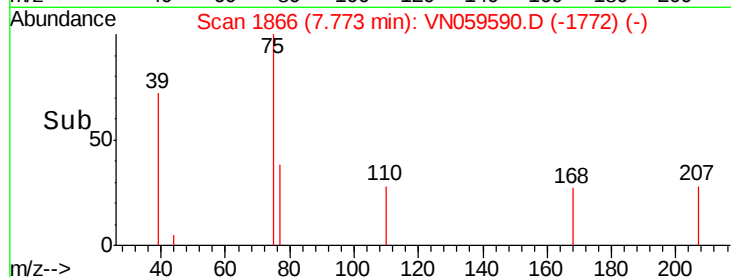
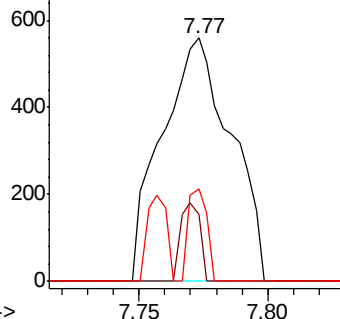
#36
 1,1-Dichloropropene
 Concen: 0.236 ug/l
 RT: 7.77 min Scan# 1866
 Delta R.T. 0.00 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 1047
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.6 49.7#
 77 10.4 25.1 37.7#

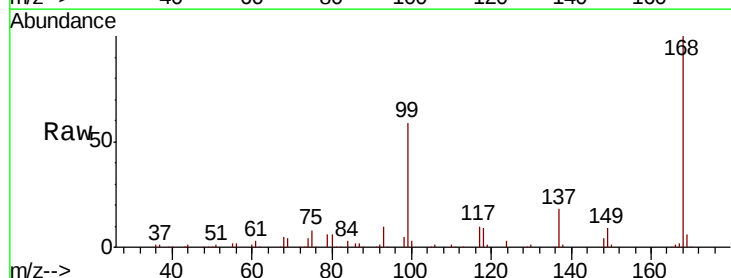


Abundance Ion 74.90 (74.60 to 75.60): VN059587.D (-1842) (-)
 Ion 109.90 (109.60 to 110.60): VN059587.D (-1842) (-)
 Ion 76.90 (76.60 to 77.60): VN059587.D (-1842) (-)

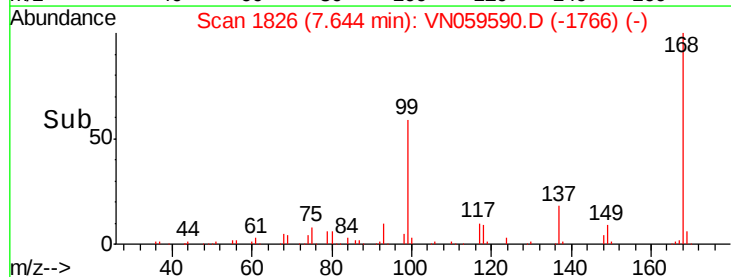
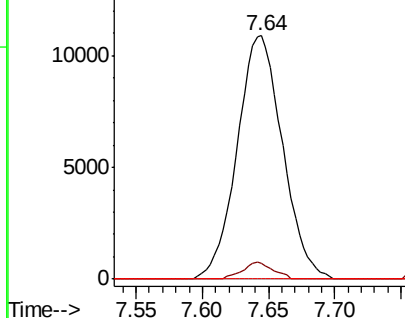


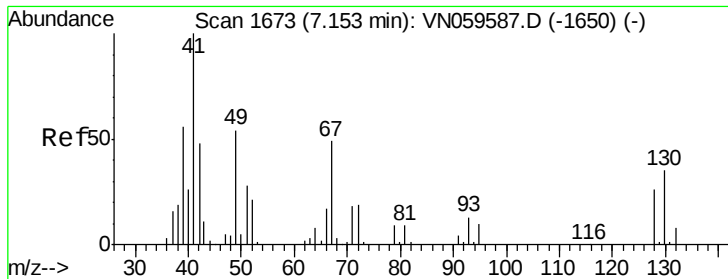
#38
 Carbon Tetrachloride
 Concen: 5.638 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

Tgt Ion: 117 Resp: 25957
 Ion Ratio Lower Upper
 117 100
 119 6.4 76.5 114.7#
 121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN059587.D (-1840) (-)
 Ion 118.80 (118.50 to 119.50): VN059587.D (-1840) (-)
 Ion 120.80 (120.50 to 121.50): VN059587.D (-1840) (-)

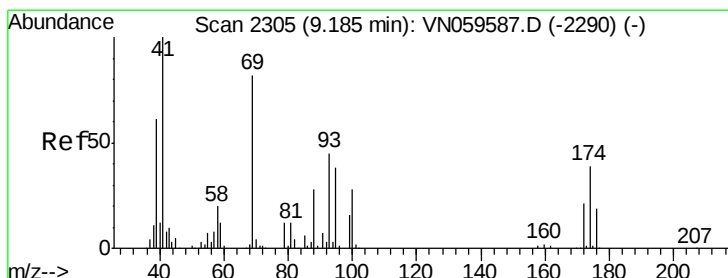
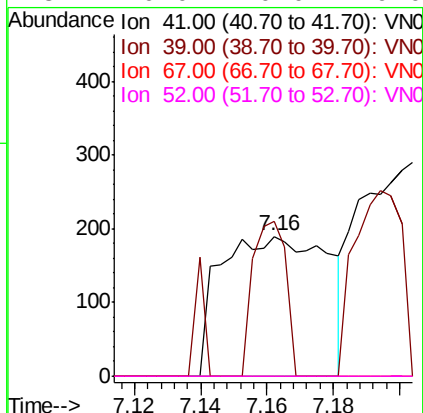
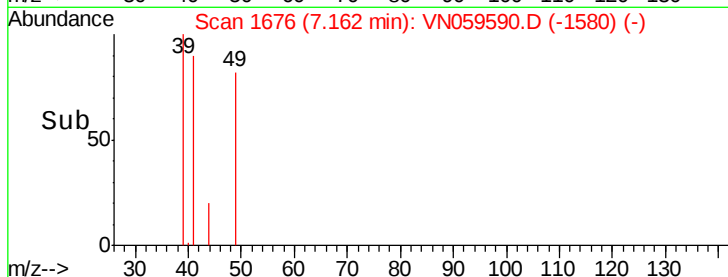
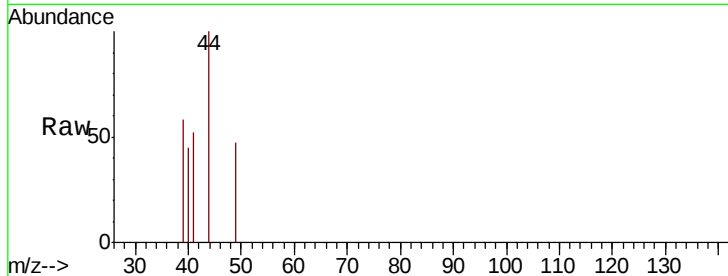




#41
Methacrylonitrile
Concen: 0.201 ug/l
RT: 7.16 min Scan# 1676
Delta R.T. 0.01 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

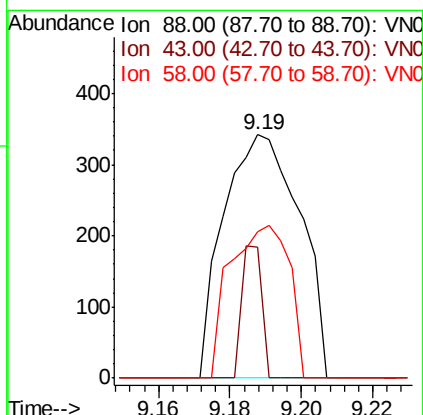
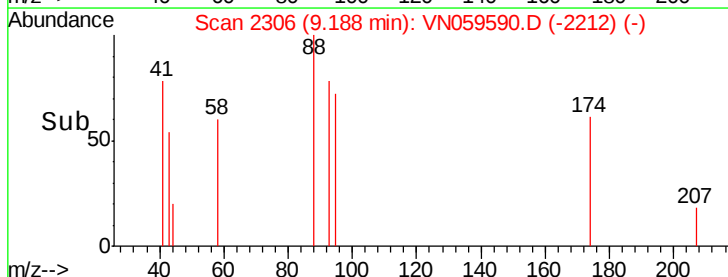
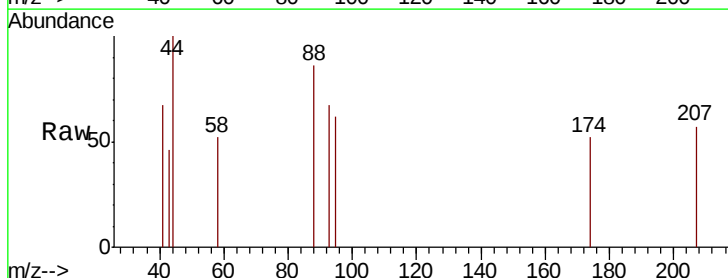
Instrument :
MSVOA_N
ClientSampled :

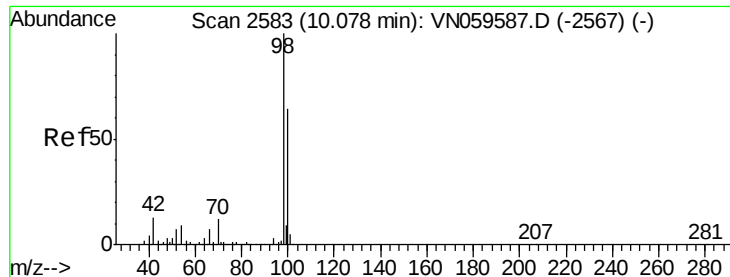
Tot Ion:	41	Resp:	427
Ion	Ratio	Lower	Upper
41	100		
39	33.7	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#49
1,4-Dioxane
Concen: 9.649 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. 0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion:	88	Resp:	503
Ion	Ratio	Lower	Upper
88	100		
43	14.3	29.7	44.5#
58	49.1	56.6	85.0#

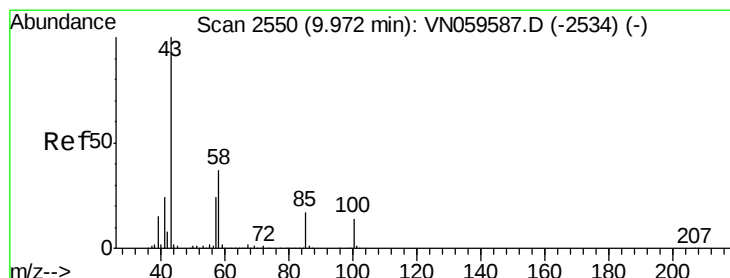
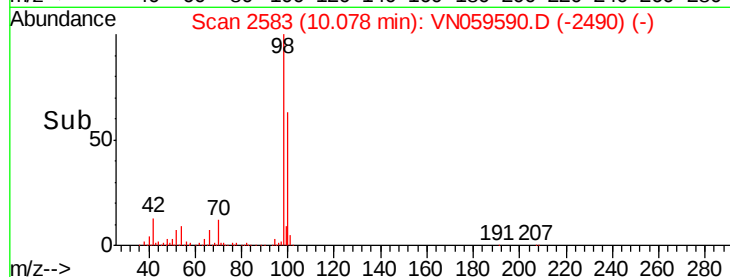
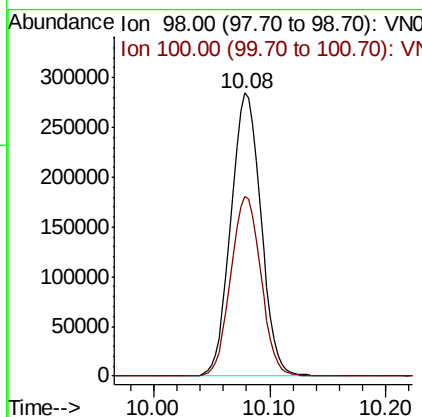
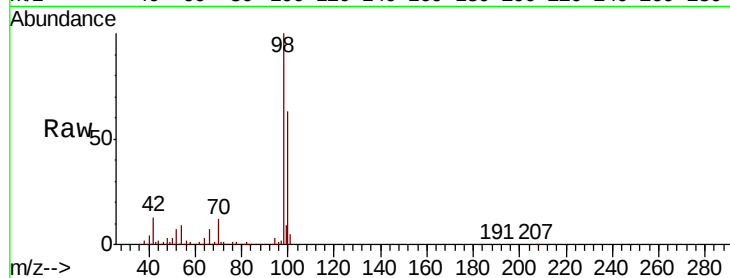




#50
Toluene-d8
Concen: 48.432 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

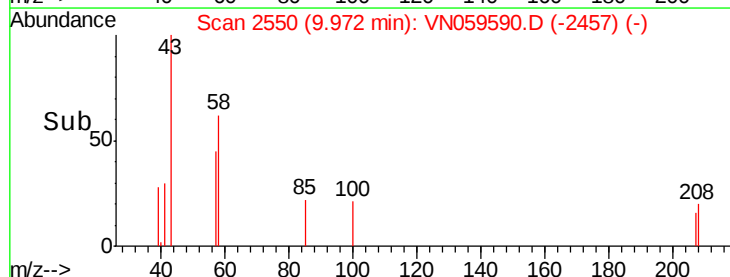
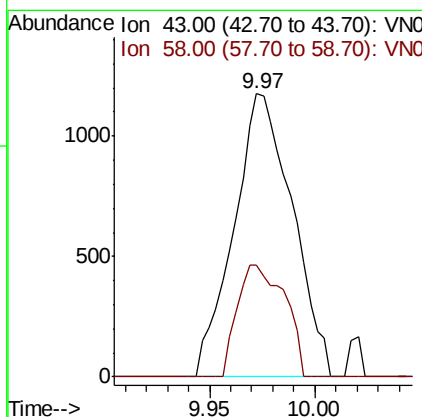
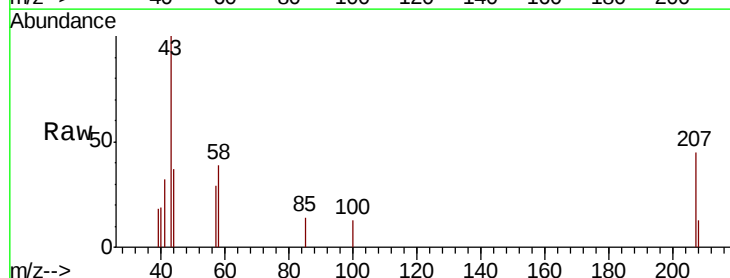
Instrument :
MSVOA_N
ClientSampleId :

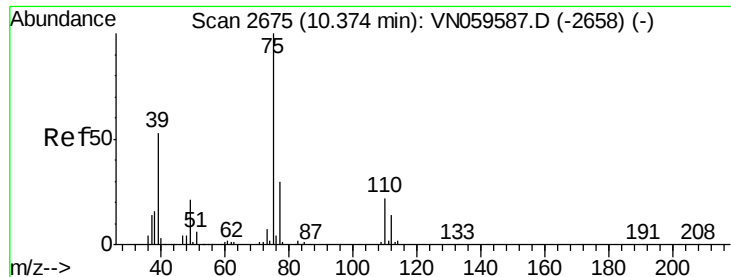
Tot Ion: 98 Resp: 510437
Ion Ratio Lower Upper
98 100
100 63.6 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.476 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion: 43 Resp: 2273
Ion Ratio Lower Upper
43 100
58 31.9 29.8 44.8





#53

t-1,3-Dichloropropene

Concen: 0.211 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

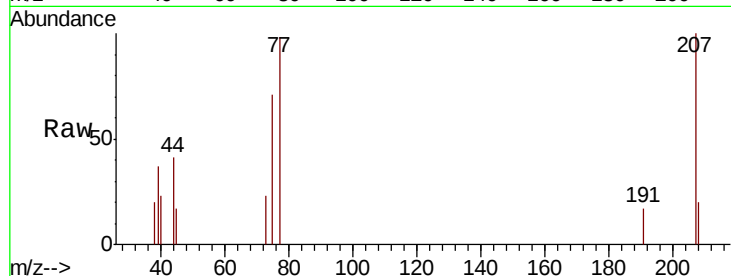
ClientSampled :

Tot Ion: 75 Resp: 1114

Ion Ratio Lower Upper

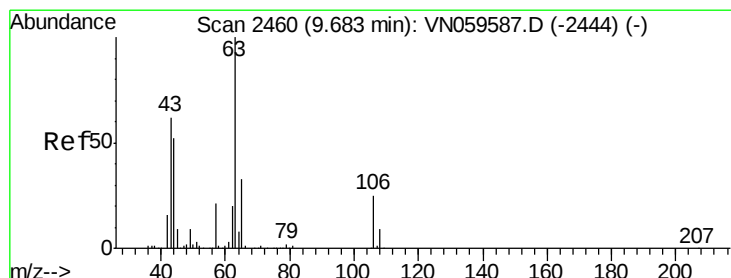
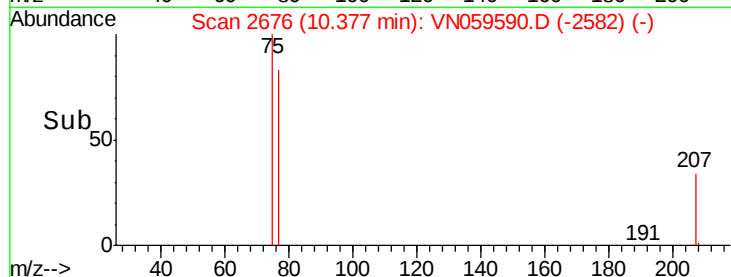
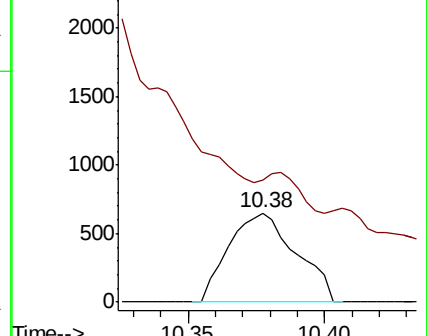
75 100

77 32.5 25.4 38.2



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 0.968 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN059590.D

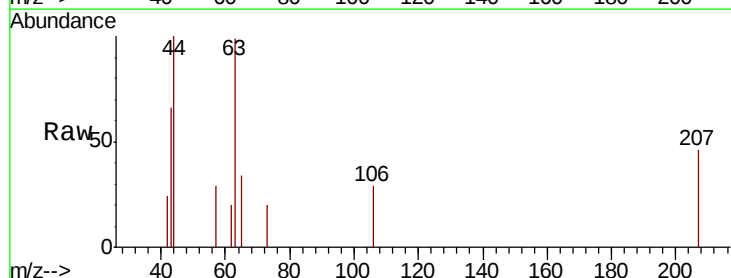
Acq: 13 Dec 2019 17:50

Tgt Ion: 63 Resp: 1429

Ion Ratio Lower Upper

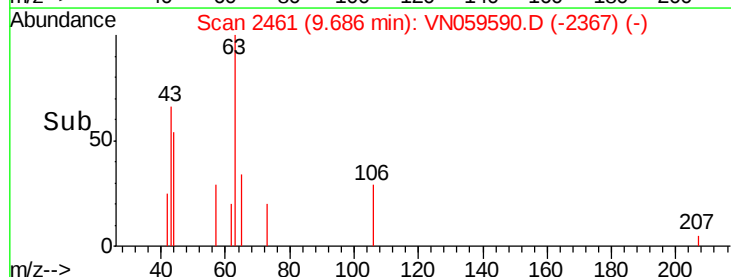
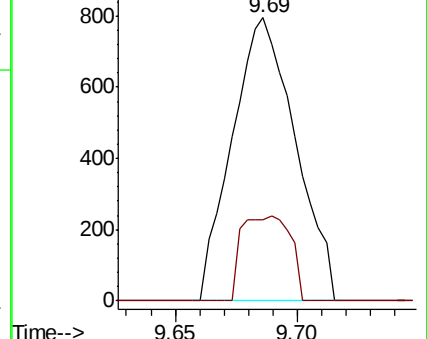
63 100

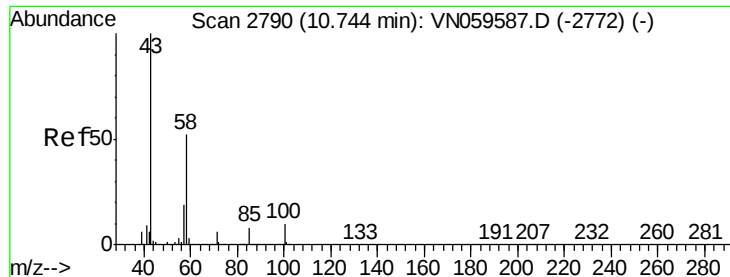
106 23.2 20.2 30.2



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

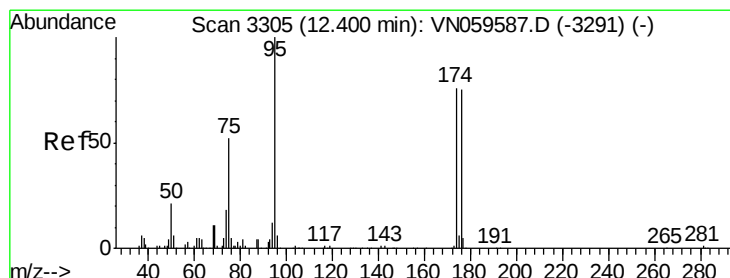
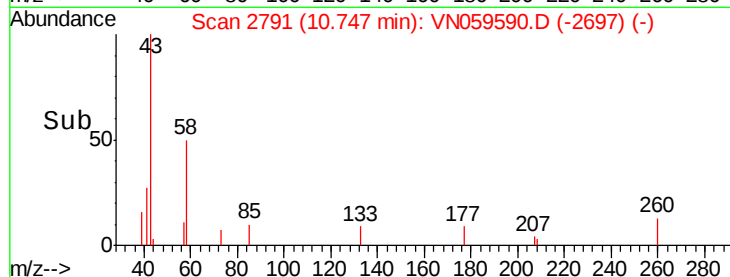
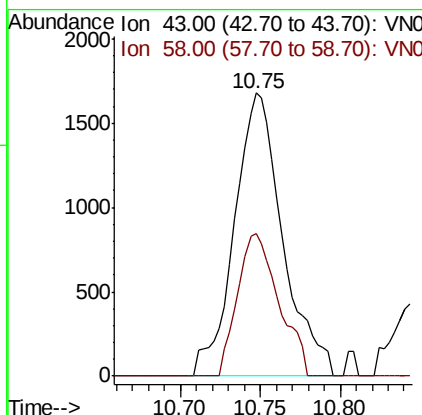
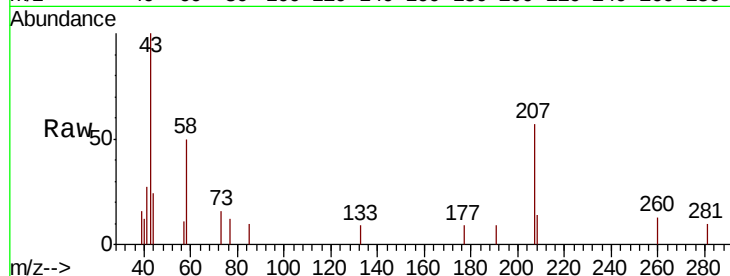




#59
2-Hexanone
Concen: 0.921 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

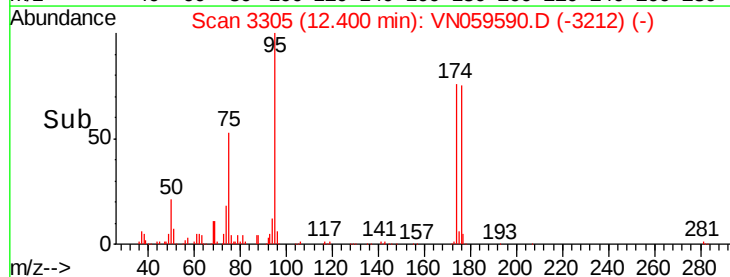
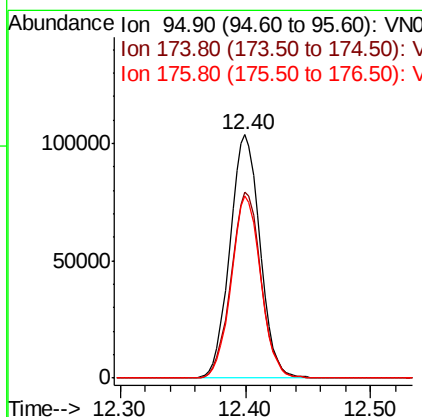
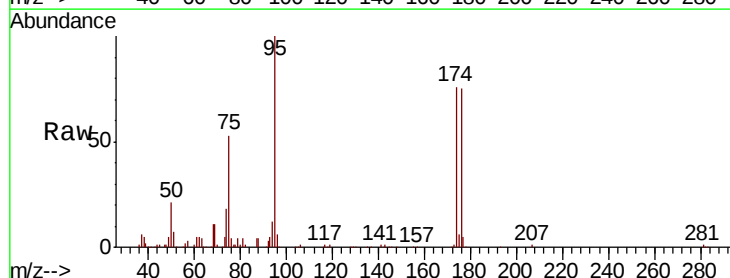
Instrument :
MSVOA_N
ClientSampled :

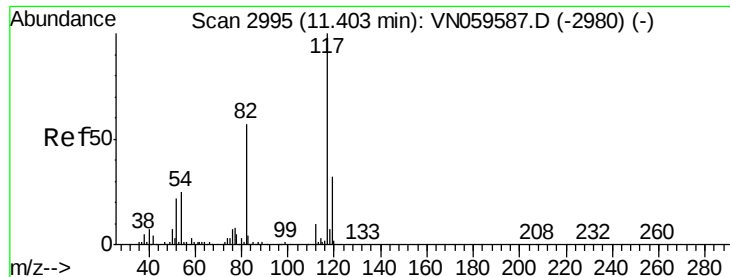
Tot Ion: 43 Resp: 3470
Ion Ratio Lower Upper
43 100
58 42.7 25.8 77.3



#62
4-Bromofluorobenzene
Concen: 45.133 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion: 95 Resp: 173564
Ion Ratio Lower Upper
95 100
174 75.9 0.0 151.4
176 73.2 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

ClientSampled :

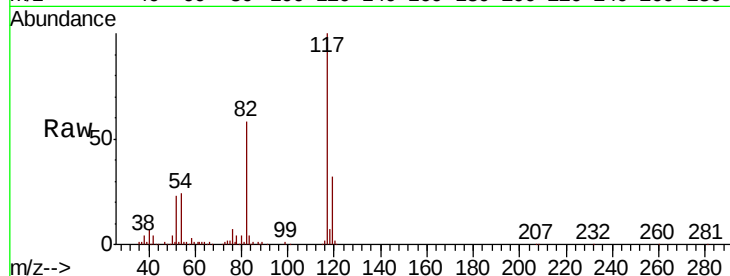
Tot Ion:117 Resp: 373851

Ion Ratio Lower Upper

117 100

82 57.9 45.9 68.9

119 32.1 25.5 38.3

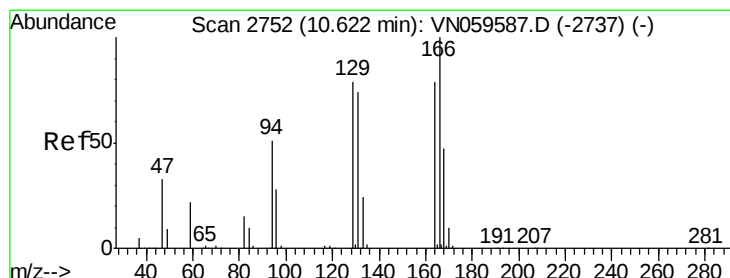
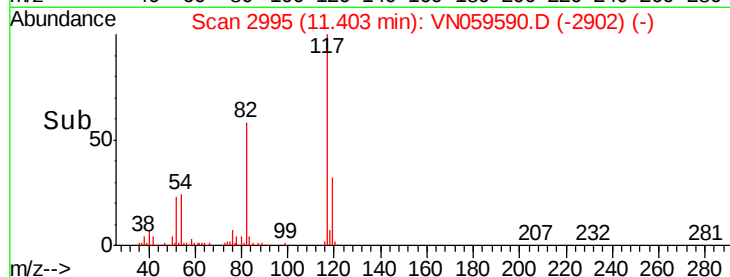
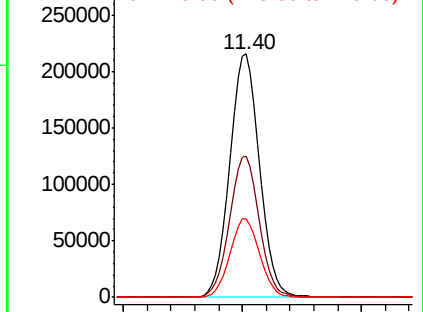


Abundance

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: 0.255 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.01 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Tgt Ion:164 Resp: 889

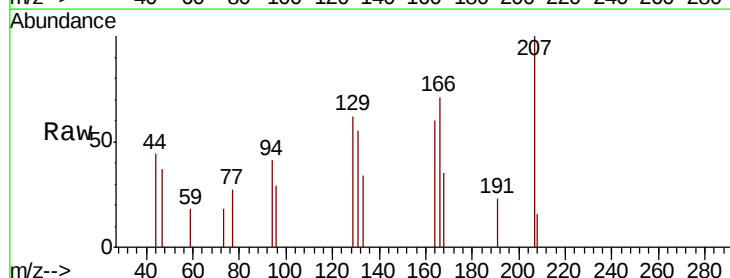
Ion Ratio Lower Upper

164 100

166 118.4 101.4 152.0

129 102.7 80.2 120.4

131 91.4 75.0 112.4



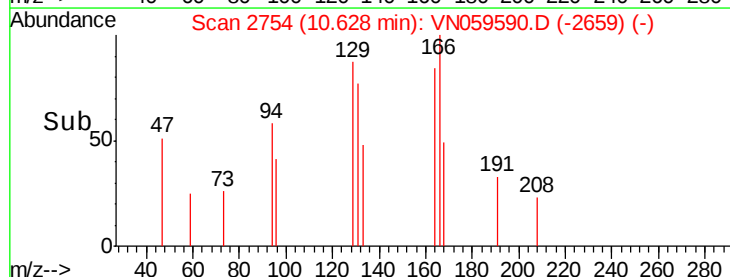
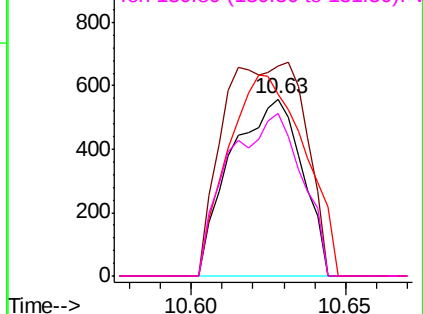
Abundance

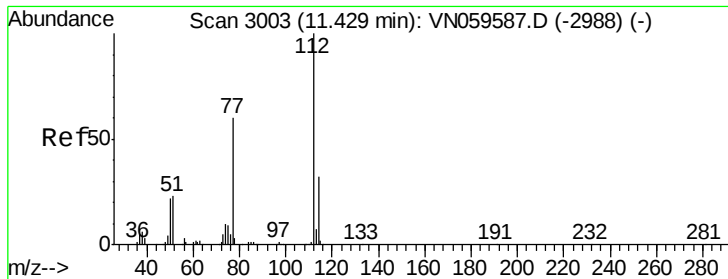
Ion 163.80 (163.50 to 164.50): V

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





#65

Chlorobenzene

Concen: 0.262 ug/l

RT: 11.43 min Scan# 3002

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

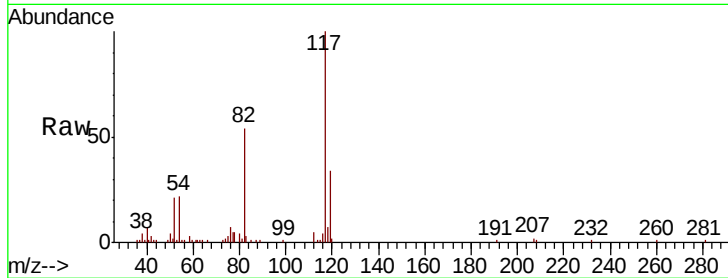
ClientSampled :

Tot Ion:112 Resp: 2117

Ion Ratio Lower Upper

112 100

114 24.7 25.8 38.8#



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.43

1500

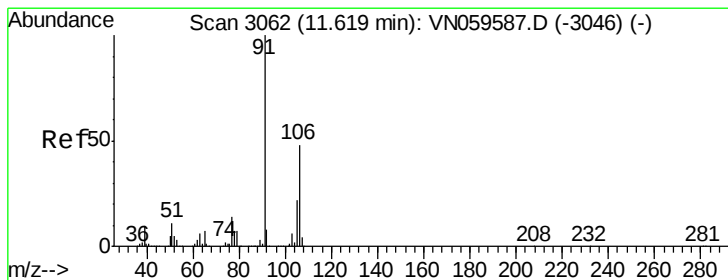
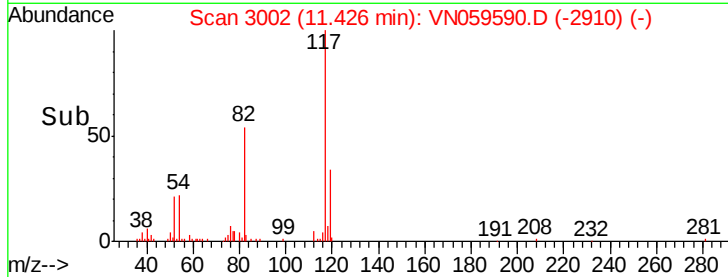
1000

500

0

Time-->

11.40 11.45



#68

m/p-Xylenes

Concen: 0.365 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN059590.D

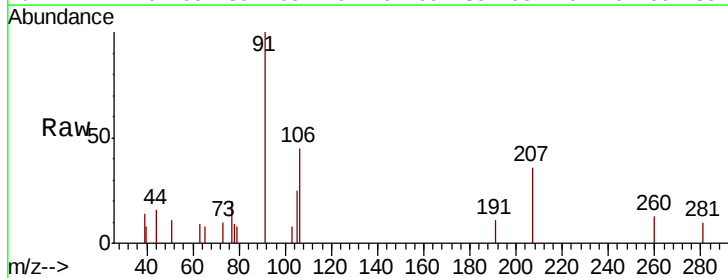
Acq: 13 Dec 2019 17:50

Tgt Ion:106 Resp: 1969

Ion Ratio Lower Upper

106 100

91 227.4 167.9 251.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

2500

2000

1500

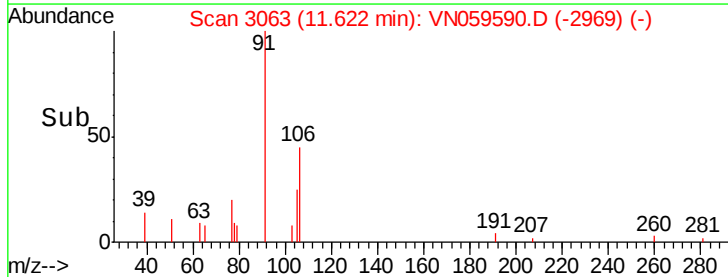
1000

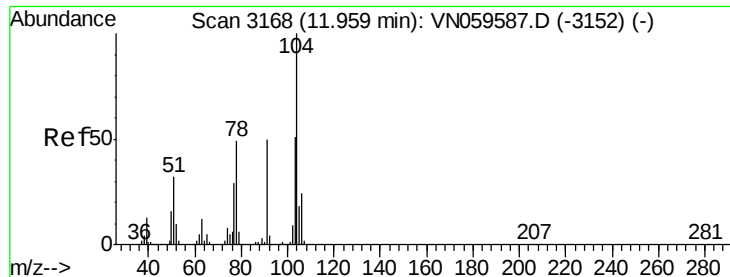
500

0

Time-->

11.60 11.65

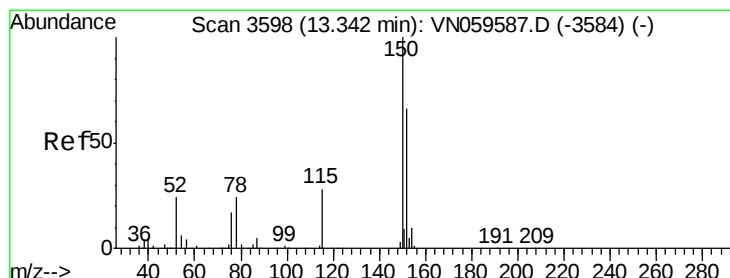
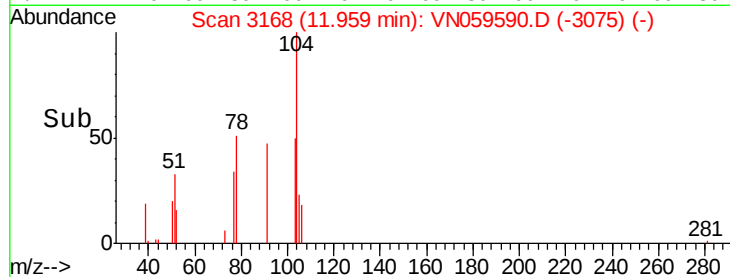
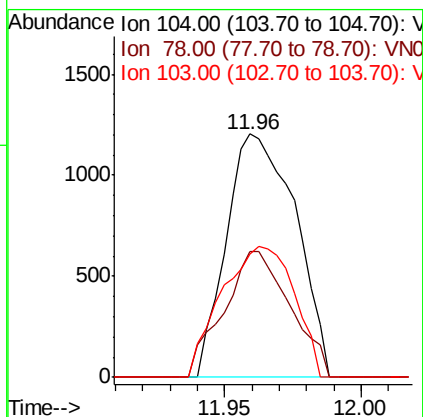
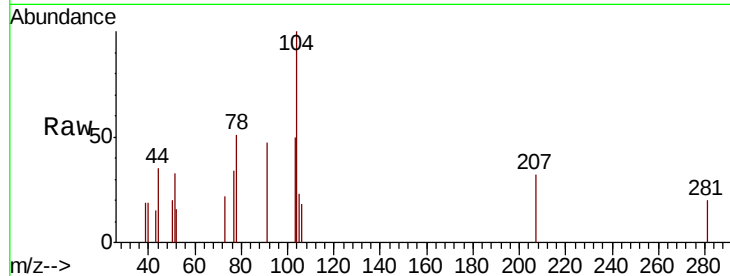




#70
Stvrene
Concen: 0.257 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

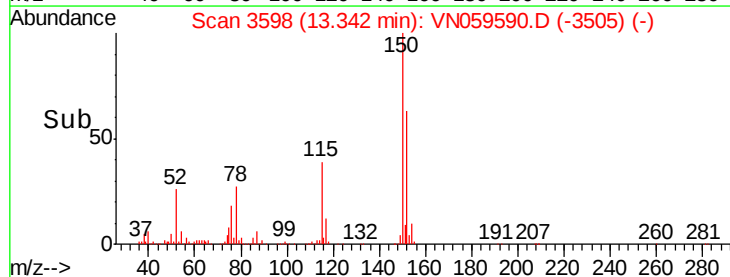
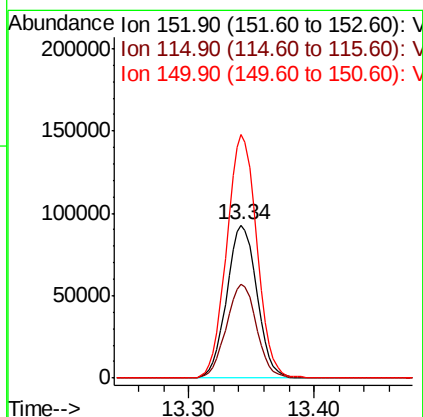
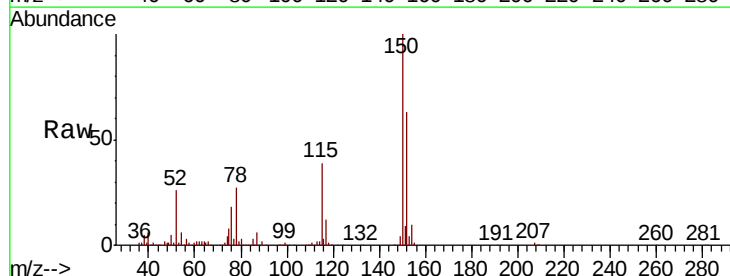
Instrument :
MSVOA_N
ClientSampleId :

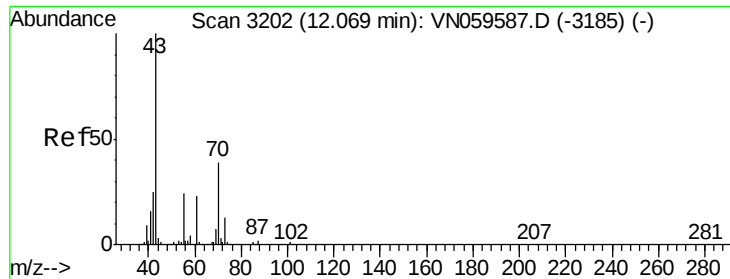
Tot Ion:104 Resp: 2120
Ion Ratio Lower Upper
104 100
78 49.7 42.4 63.6
103 56.6 43.9 65.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion:152 Resp: 155591
Ion Ratio Lower Upper
152 100
115 60.8 30.3 90.9
150 158.4 0.0 345.2





#74

N-amvl acetate

Concen: 0.340 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 1903

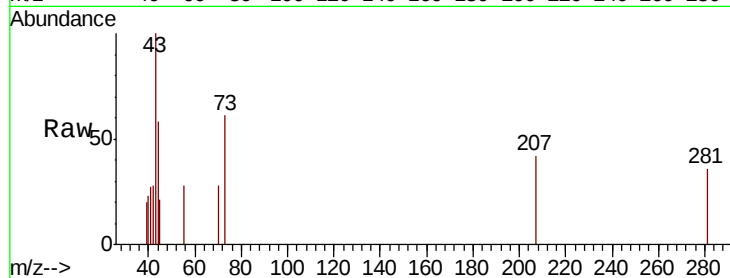
Ion Ratio Lower Upper

43 100

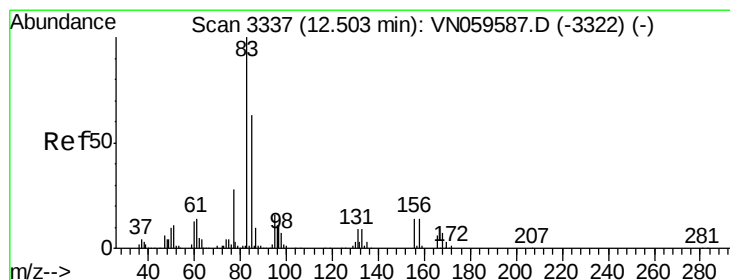
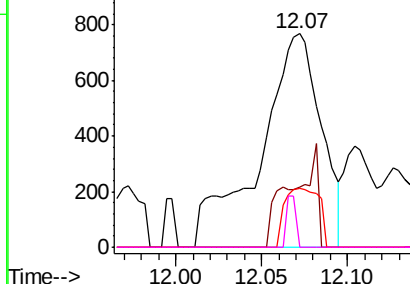
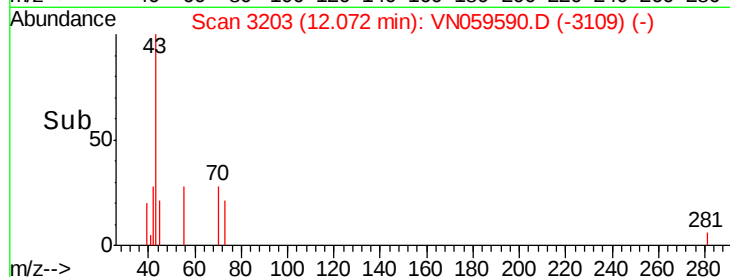
70 7.9 31.3 46.9#

55 15.6 19.8 29.6#

61 3.7 18.3 27.5#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 70.00 (69.70 to 70.70): VNO
Ion 55.00 (54.70 to 55.70): VNO
Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: 0.214 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

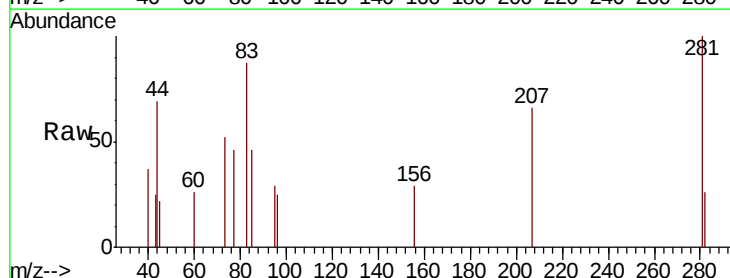
Tgt Ion: 83 Resp: 831

Ion Ratio Lower Upper

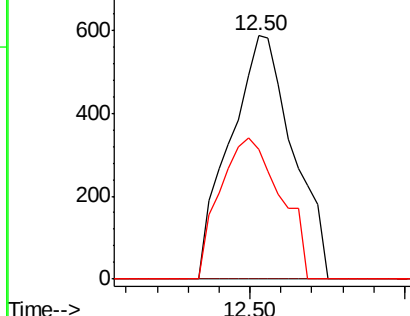
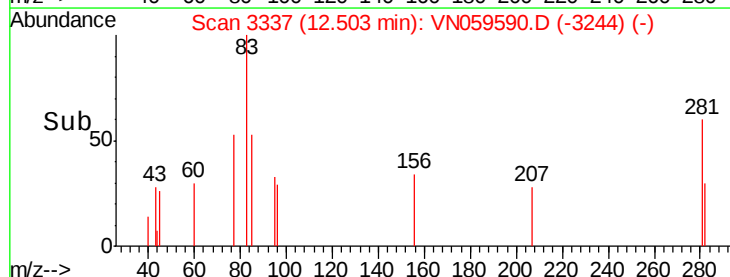
83 100

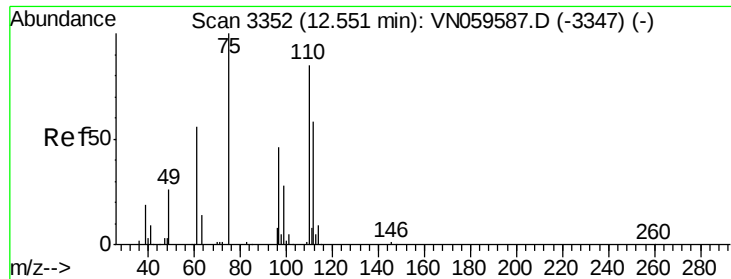
131 0.0 5.0 14.9#

85 56.1 31.9 95.5



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO

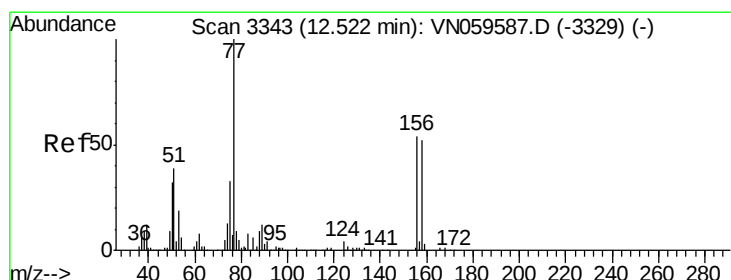
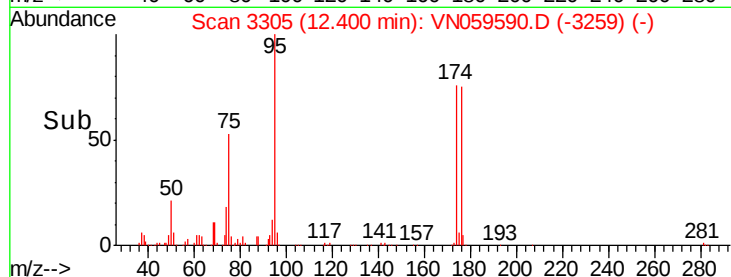
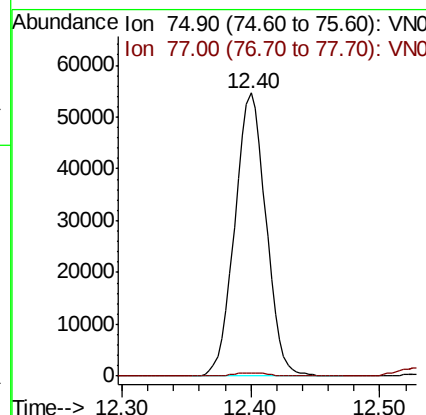
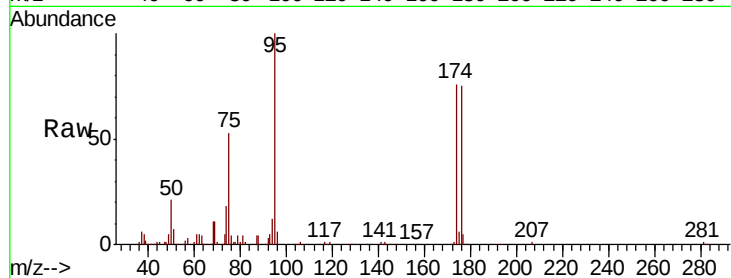




#76
 1,2,3-Trichloropropane
 Concen: 23.833 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

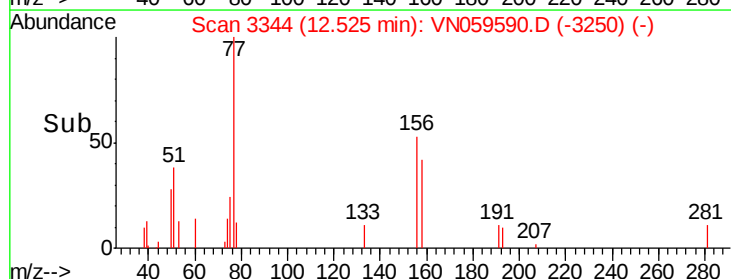
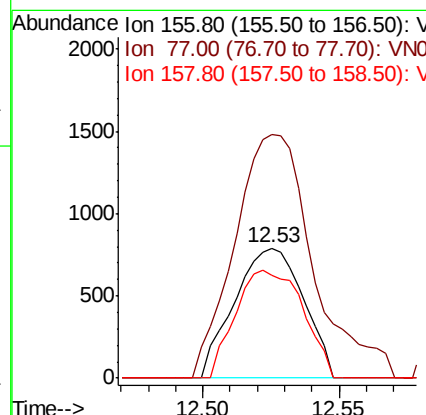
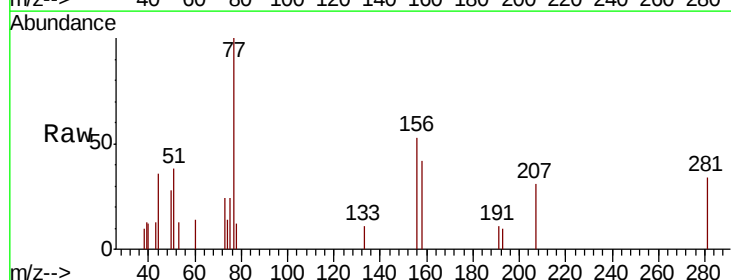
Instrument :
 MSVOA_N
 ClientSampleId :

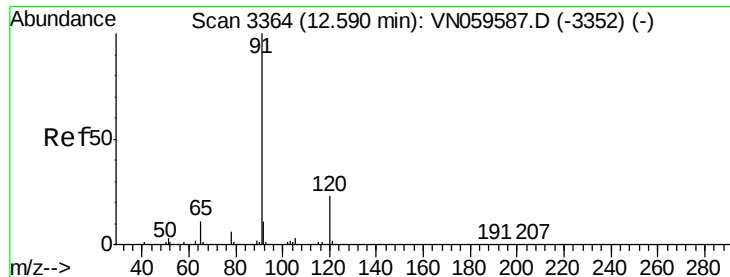
Tot Ion: 75 Resp: 91799
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#77
 Bromobenzene
 Concen: 0.462 ug/l
 RT: 12.53 min Scan# 3344
 Delta R.T. 0.00 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

Tgt Ion: 156 Resp: 1387
 Ion Ratio Lower Upper
 156 100
 77 213.8 115.8 347.4
 158 81.3 49.2 147.6





#78

n-propylbenzene

Concen: 0.303 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

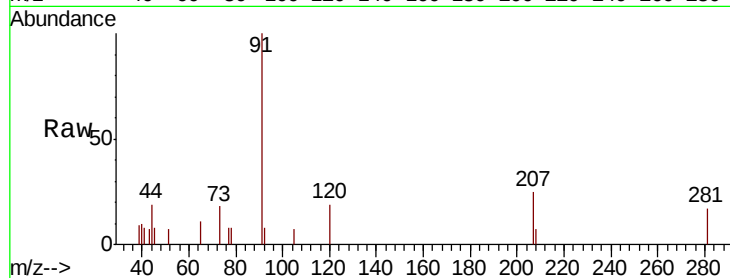
ClientSampled :

Tot Ion: 91 Resp: 4369

Ion Ratio Lower Upper

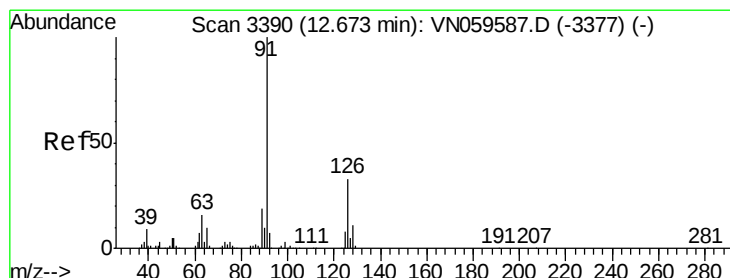
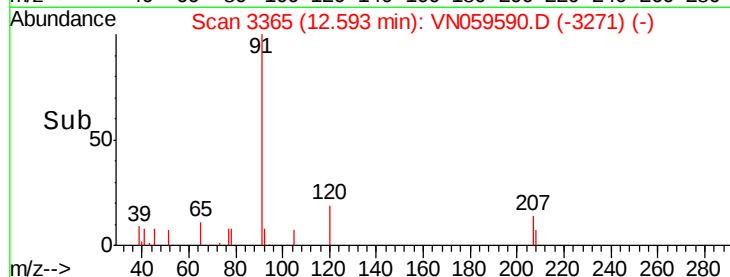
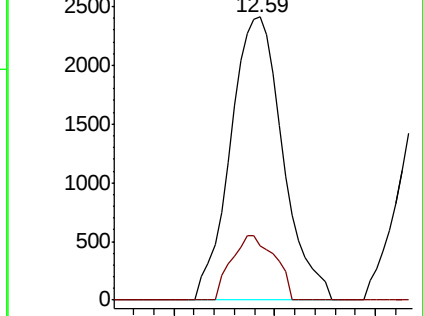
91 100

120 19.0 11.1 33.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.322 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN059590.D

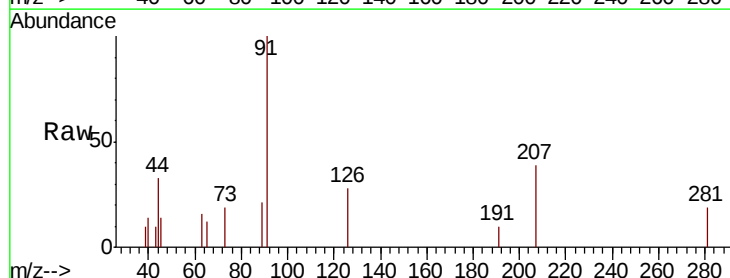
Acq: 13 Dec 2019 17:50

Tgt Ion: 91 Resp: 2814

Ion Ratio Lower Upper

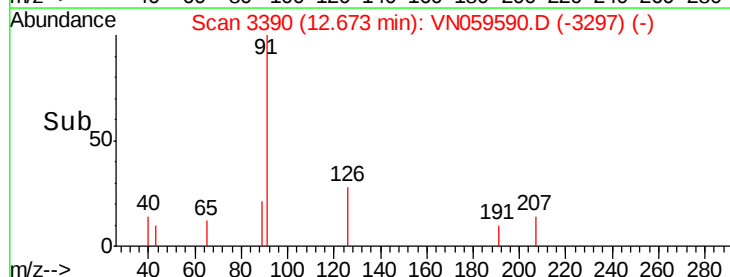
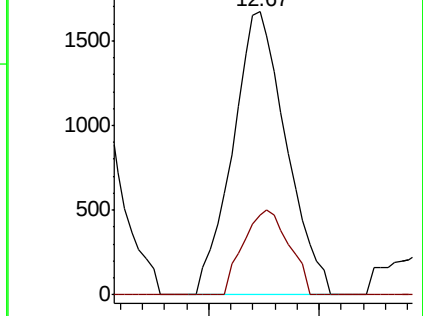
91 100

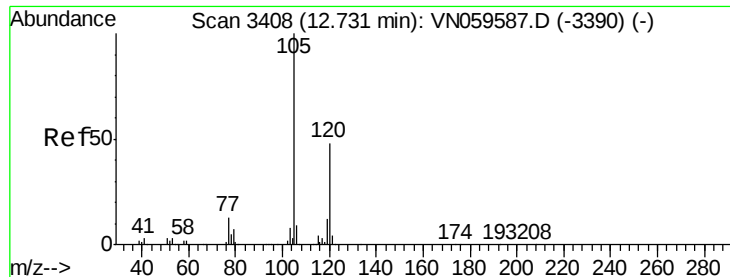
126 25.6 16.3 48.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#80

1,3,5-Trimethylbenzene

Concen: 0.230 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

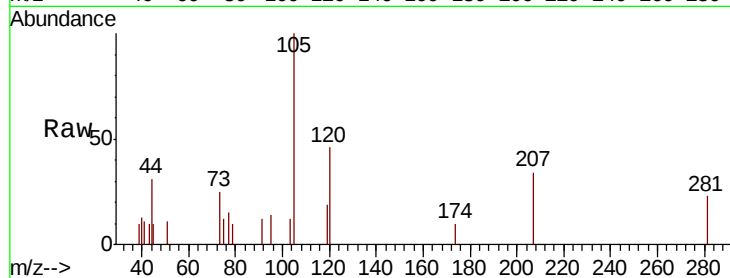
ClientSampleId :

Tot Ion:105 Resp: 2377

Ion Ratio Lower Upper

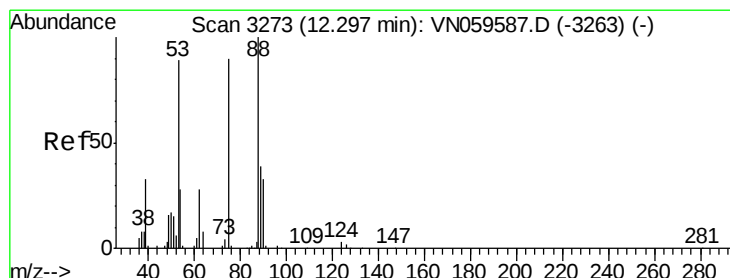
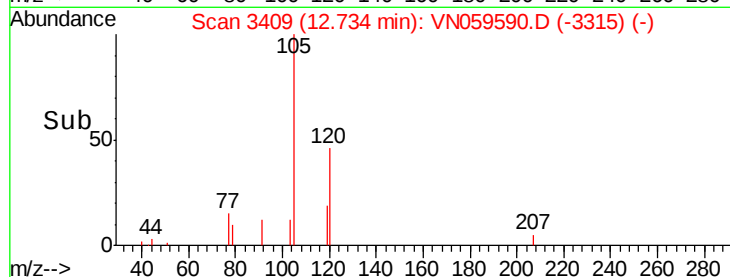
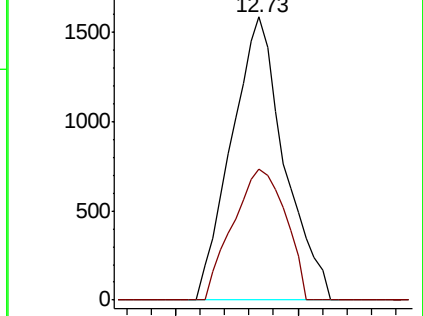
105 100

120 46.4 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 58.865 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

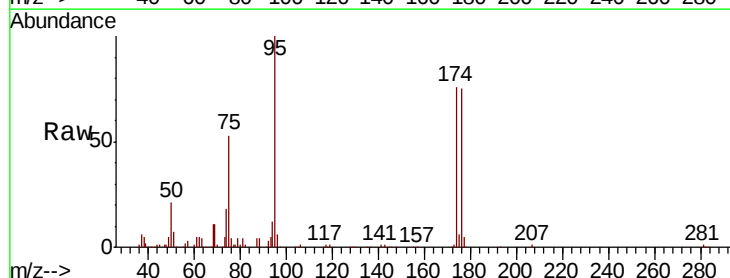
Tgt Ion: 75 Resp: 91799

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

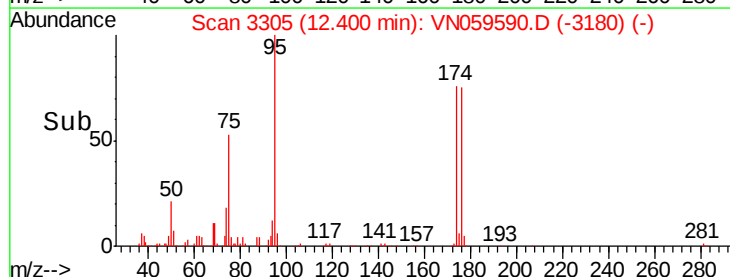
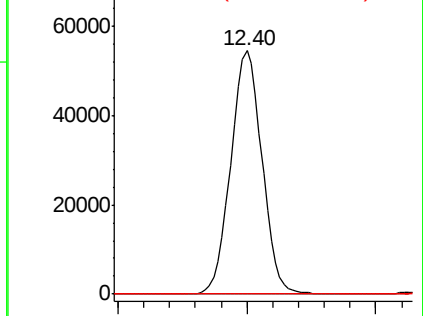
89 0.0 35.4 53.2#

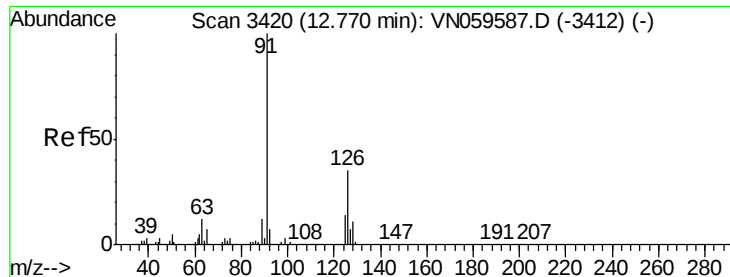


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#82

4-Chlorotoluene

Concen: 0.475 ug/l

RT: 12.78 min Scan# 3422

Delta R.T. 0.01 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

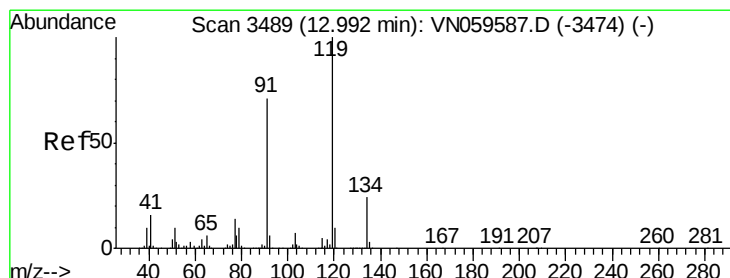
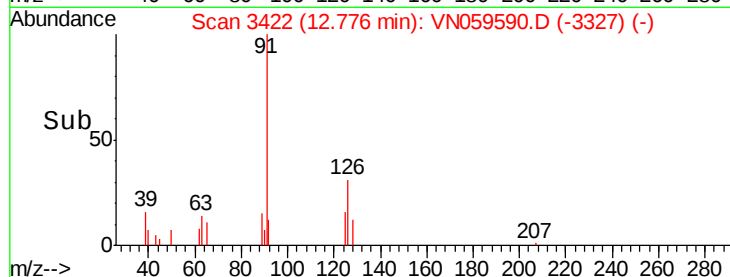
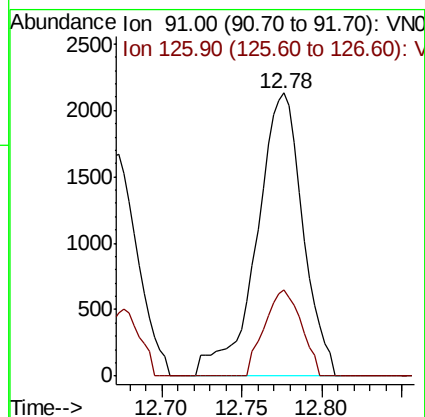
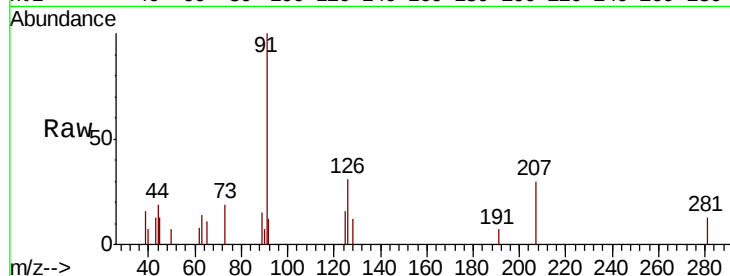
ClientSampled :

Tot Ion: 91 Resp: 4246

Ion Ratio Lower Upper

91 100

126 24.4 16.3 48.8



#83

tert-Butylbenzene

Concen: 0.259 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

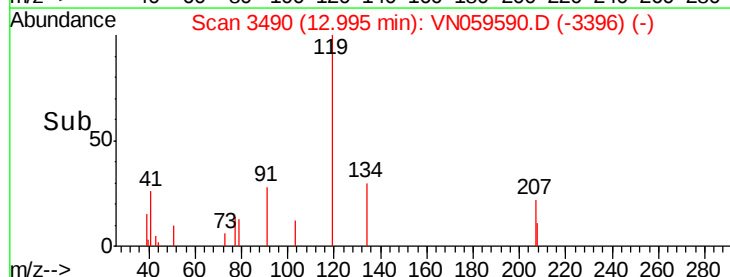
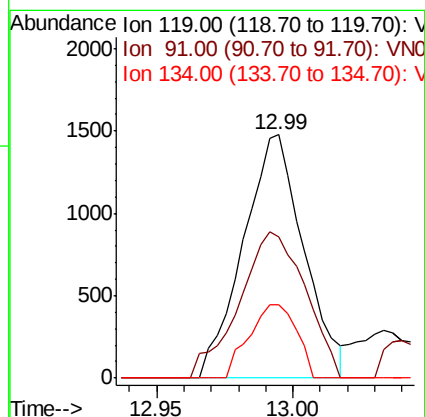
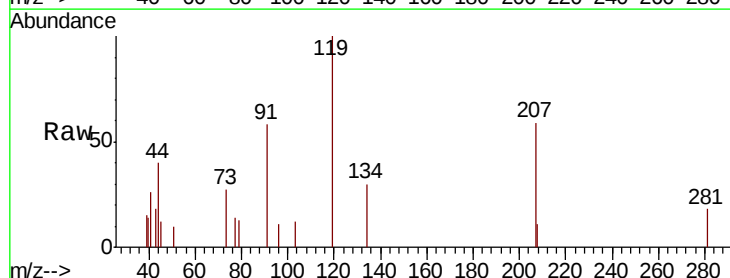
Tgt Ion: 119 Resp: 2271

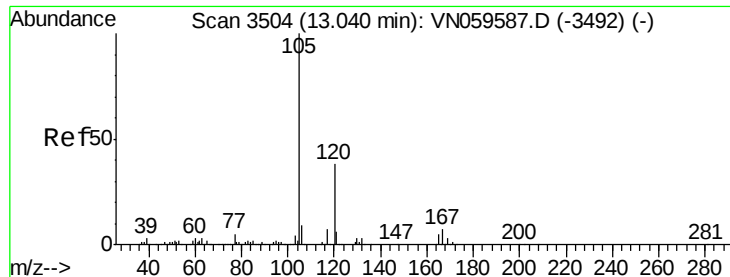
Ion Ratio Lower Upper

119 100

91 65.7 34.8 104.4

134 23.6 12.3 36.9





#84

1,2,4-Trimethylbenzene

Concen: 0.282 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

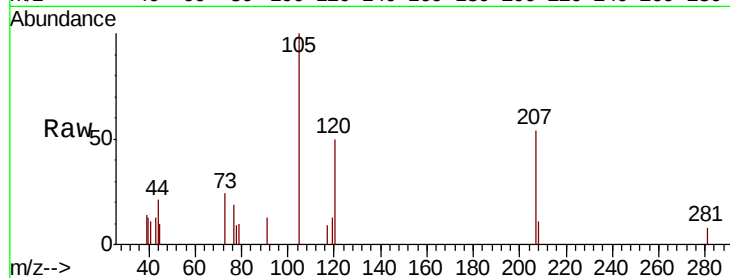
ClientSampled :

Tot Ion:105 Resp: 2897

Ion Ratio Lower Upper

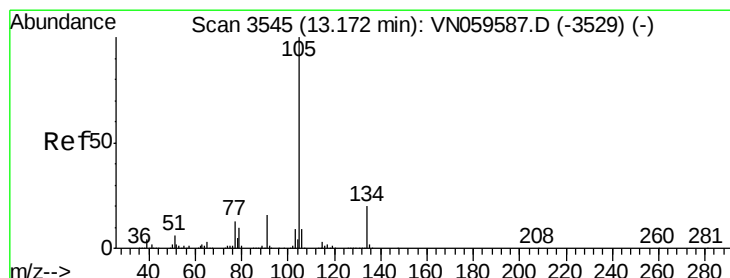
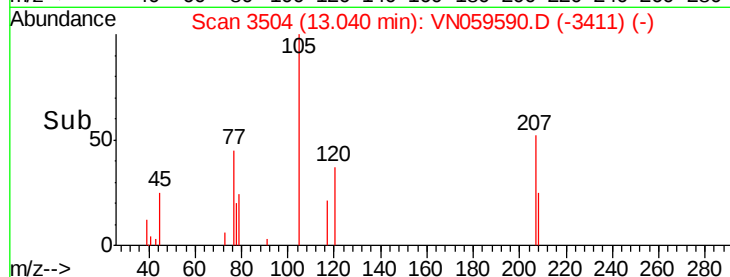
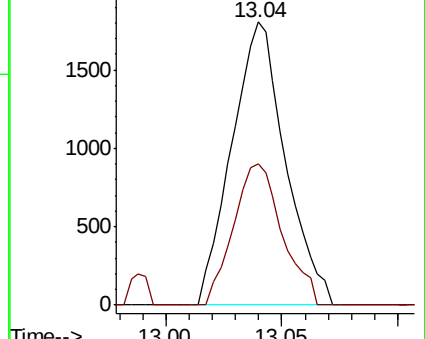
105 100

120 45.6 22.3 66.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 0.402 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN059590.D

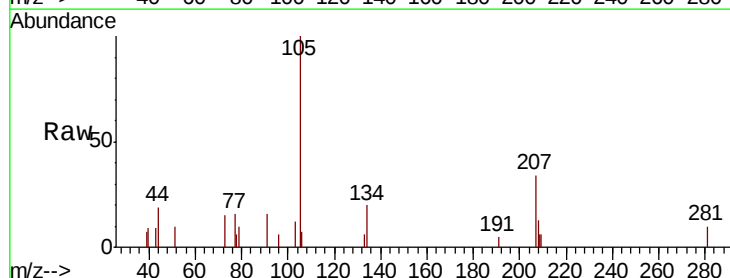
Acq: 13 Dec 2019 17:50

Tgt Ion:105 Resp: 4684

Ion Ratio Lower Upper

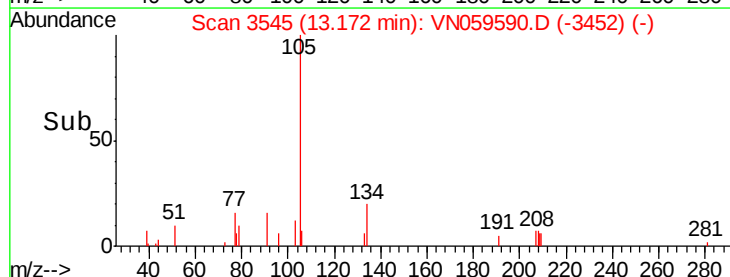
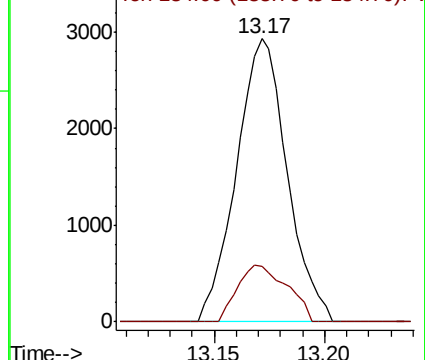
105 100

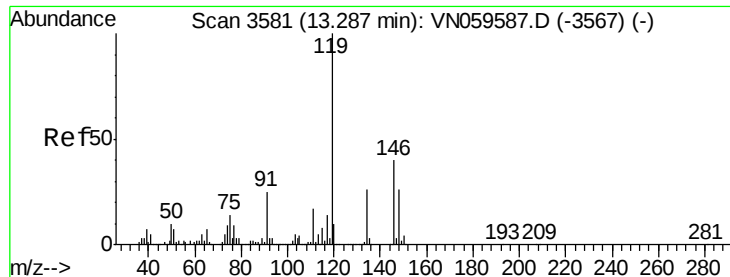
134 19.6 9.8 29.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

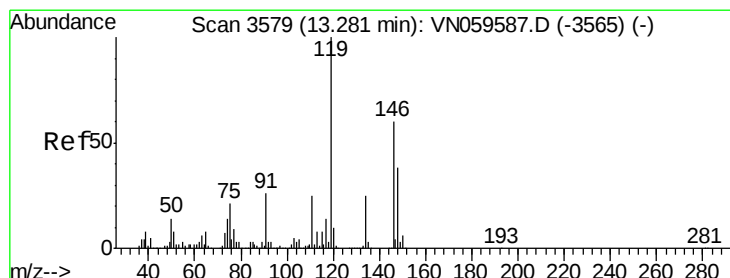
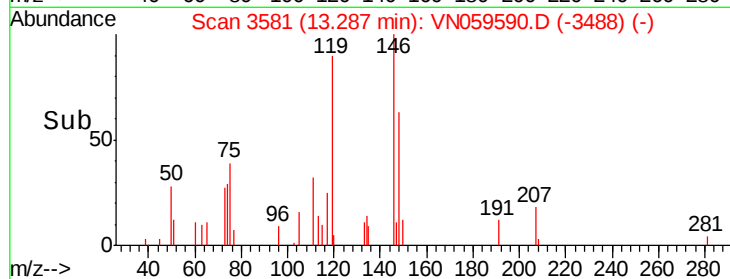
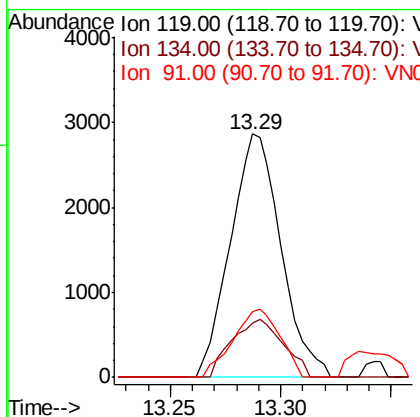
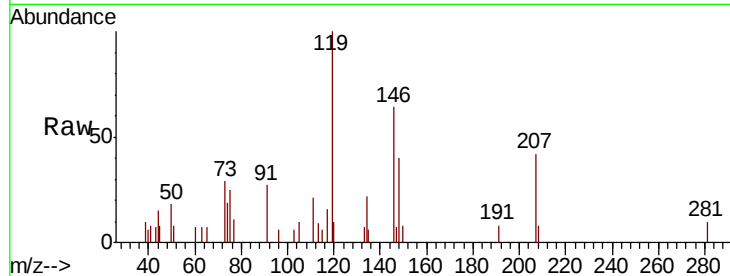




#86
p-Isopropyltoluene
Concen: 0.433 ug/l
RT: 13.29 min Scan# 3581
Delta R.T. -0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

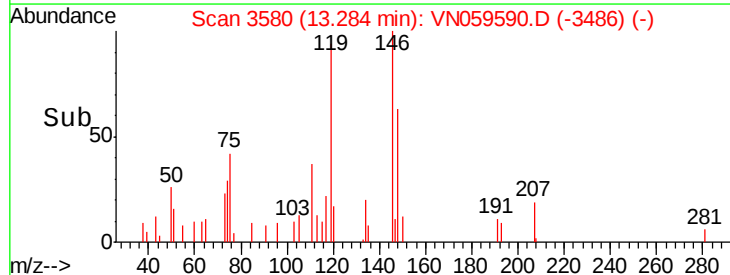
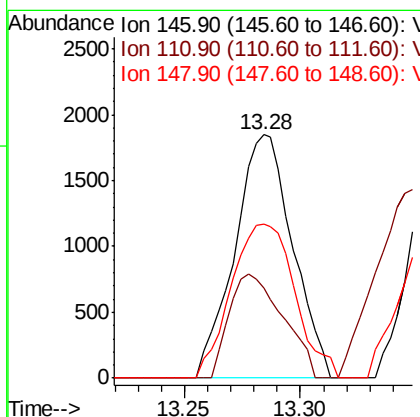
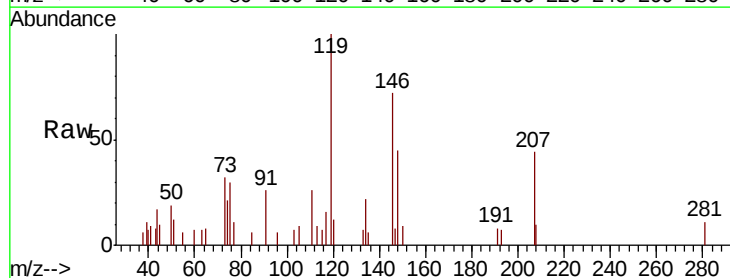
Instrument :
MSVOA_N
ClientSampled :

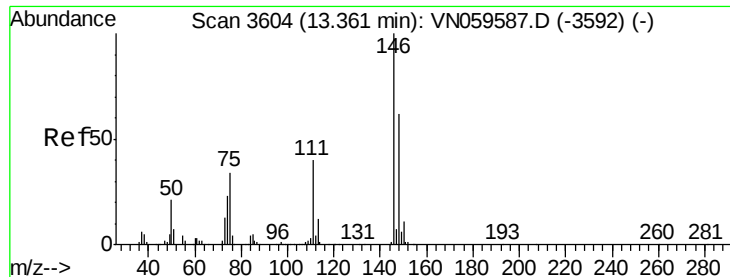
Tot Ion	Ratio	Lower	Upper
119	100		
134	24.1	12.9	38.7
91	26.0	12.4	37.4



#87
1,3-Dichlorobenzene
Concen: 0.582 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.8	62.2
148	69.5	32.0	96.0





#88

1,4-Dichlorobenzene

Concen: 0.577 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. -0.08 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

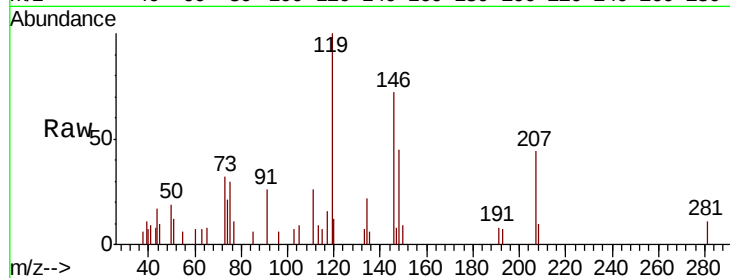
Tot Ion:146 Resp: 3212

Ion Ratio Lower Upper

146 100

111 39.7 20.8 62.2

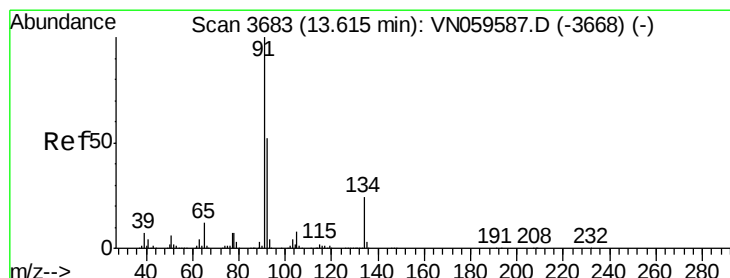
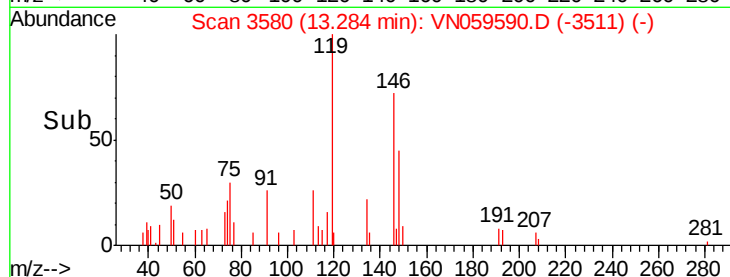
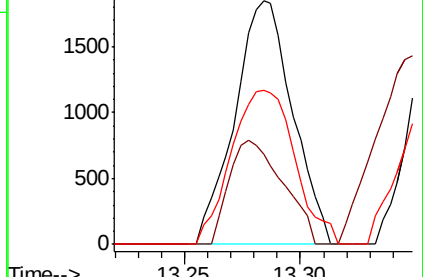
148 69.5 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 0.676 ug/l

RT: 13.62 min Scan# 3683

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

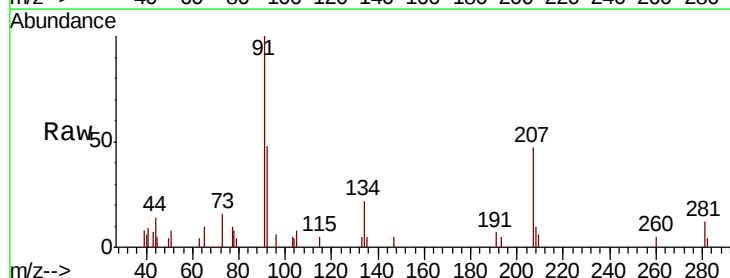
Tgt Ion: 91 Resp: 6685

Ion Ratio Lower Upper

91 100

92 51.7 25.9 77.7

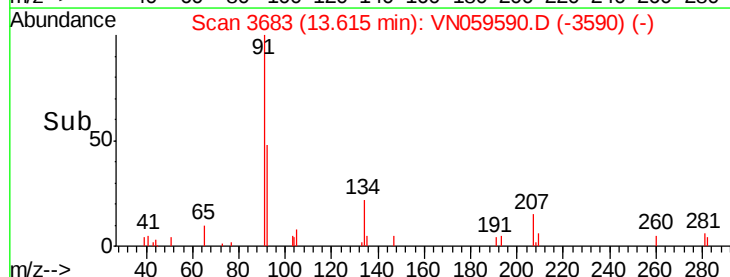
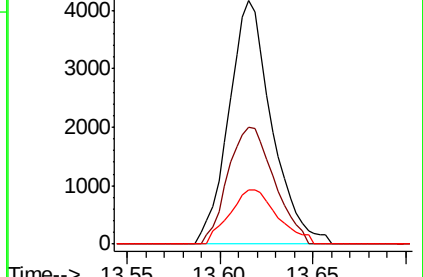
134 25.1 12.3 36.8

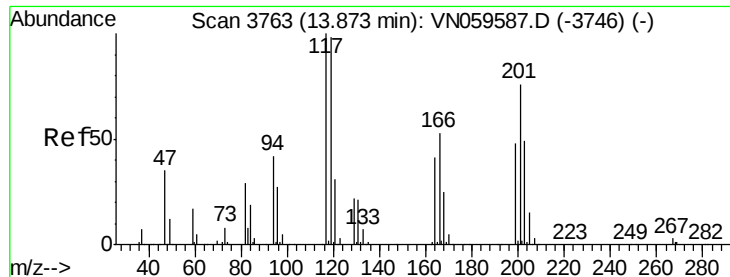


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.348 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

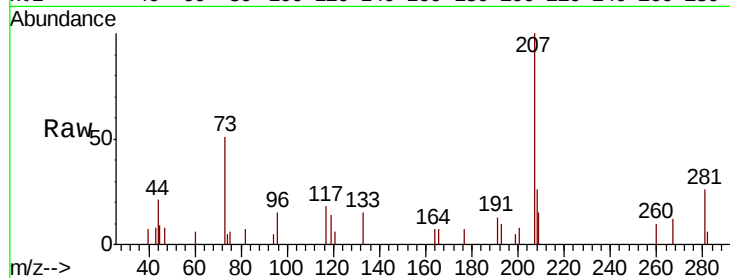
ClientSampleId :

Tot Ion:117 Resp: 693

Ion Ratio Lower Upper

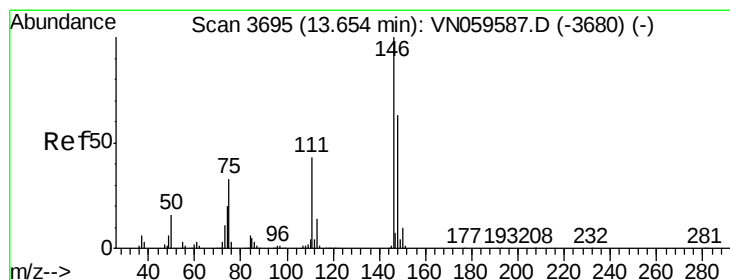
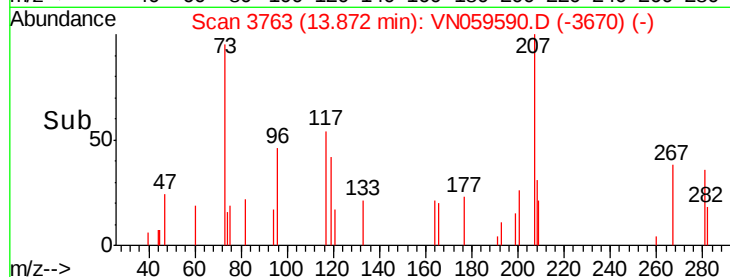
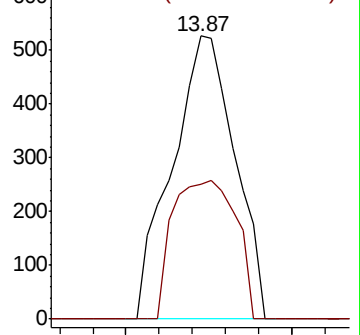
117 100

201 49.5 37.8 113.4



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.582 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

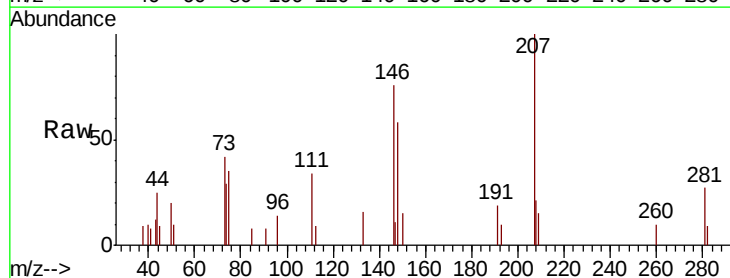
Tgt Ion:146 Resp: 3169

Ion Ratio Lower Upper

146 100

111 41.1 21.6 64.8

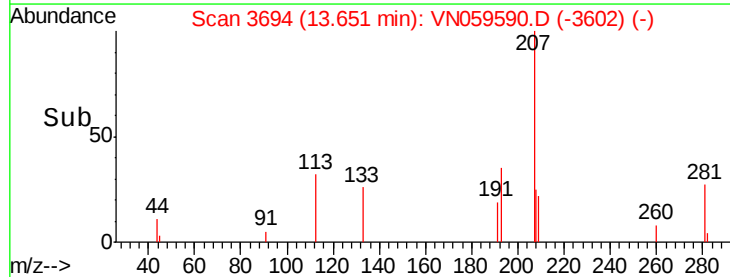
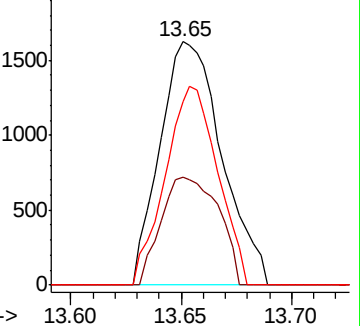
148 69.1 31.6 95.0

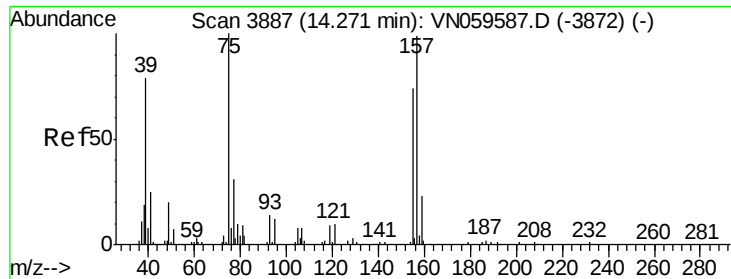


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.397 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

Instrument :

MSVOA_N

ClientSampled :

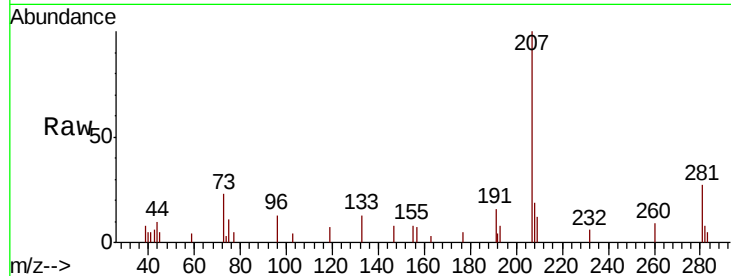
Tot Ion: 75 Resp: 874

Ion Ratio Lower Upper

75 100

155 72.7 37.0 110.9

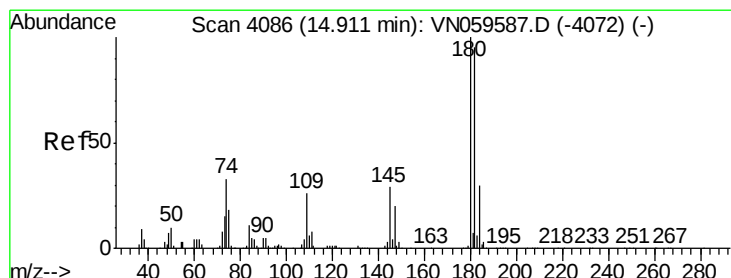
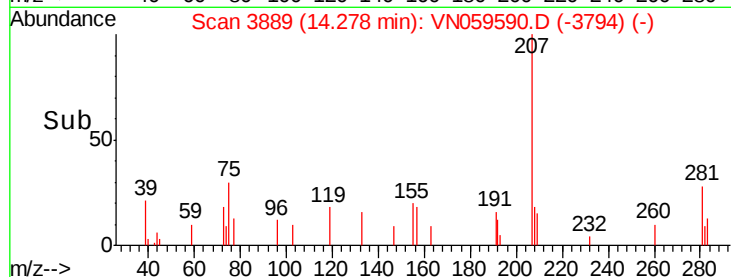
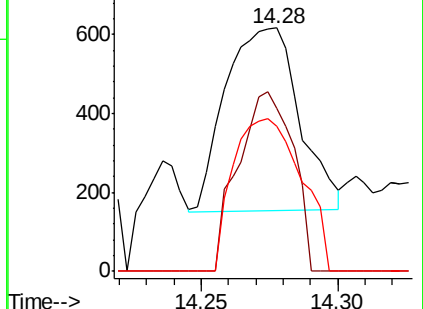
157 77.1 48.4 145.2



Abundance Ion 74.90 (74.60 to 75.60): VN059590.D (-3889) (-)

Ion 154.80 (154.50 to 155.50): VN059590.D (-3889) (-)

Ion 156.80 (156.50 to 157.50): VN059590.D (-3889) (-)



#93

1,2,4-Trichlorobenzene

Concen: 1.927 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. -0.00 min

Lab File: VN059590.D

Acq: 13 Dec 2019 17:50

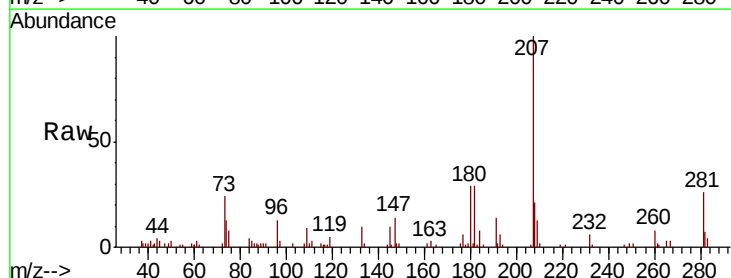
Tgt Ion: 180 Resp: 6778

Ion Ratio Lower Upper

180 100

182 99.7 46.9 140.7

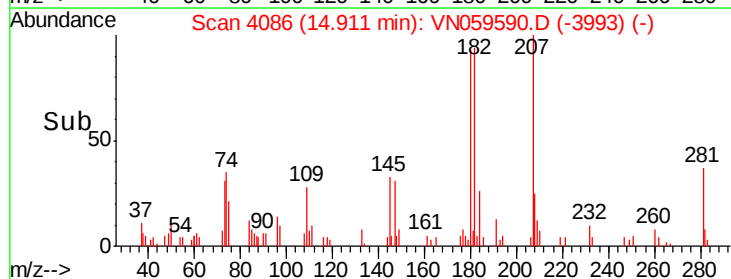
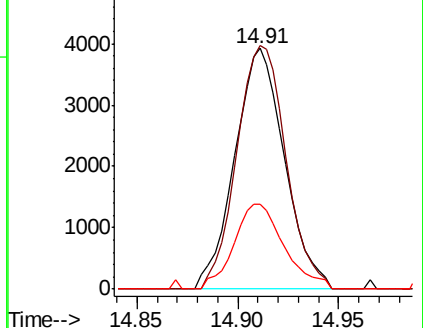
145 35.5 15.0 45.1

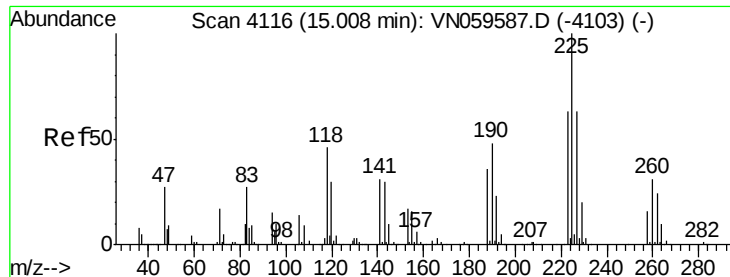


Abundance Ion 179.80 (179.50 to 180.50): VN059590.D (-4086) (-)

Ion 181.80 (181.50 to 182.50): VN059590.D (-4086) (-)

Ion 144.80 (144.50 to 145.50): VN059590.D (-4086) (-)

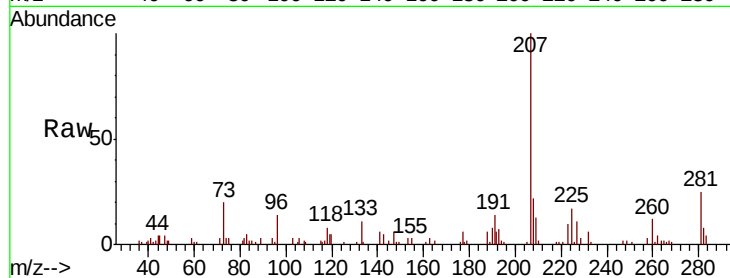




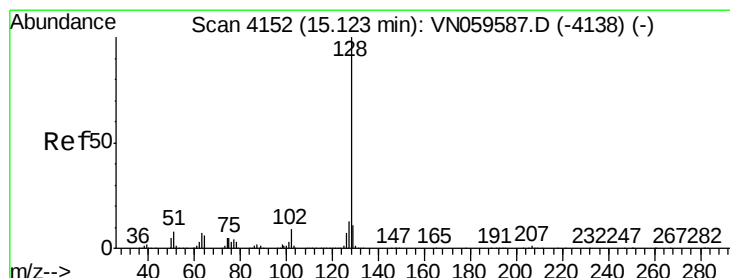
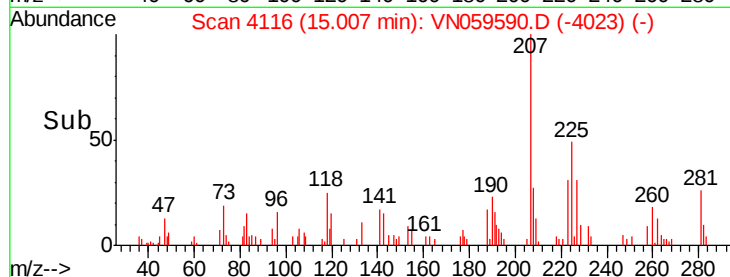
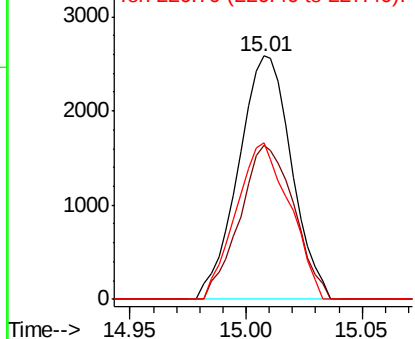
#94
Hexachlorobutadiene
Concen: 3.713 ug/l
RT: 15.01 min Scan# 4116
Delta R.T. 0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:225 Resp: 4114
Ion Ratio Lower Upper
225 100
223 64.2 31.8 95.3
227 65.2 32.1 96.5

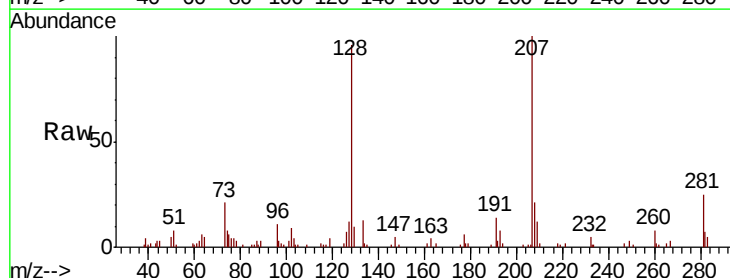


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V

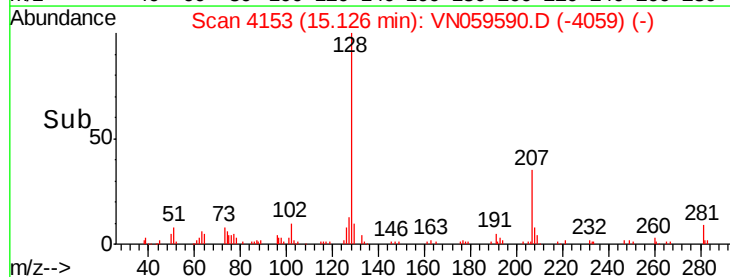
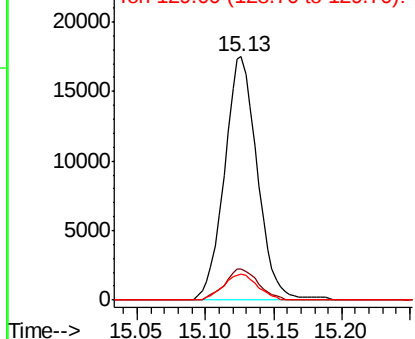


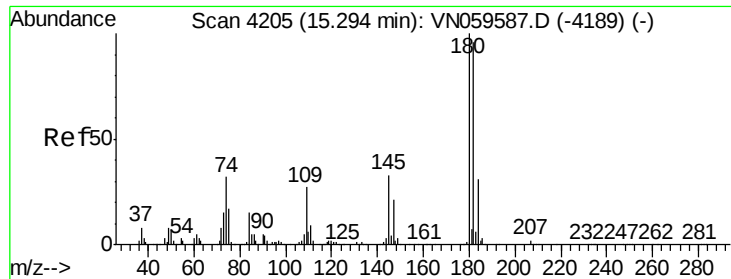
#95
Naphthalene
Concen: 2.792 ug/l
RT: 15.13 min Scan# 4153
Delta R.T. 0.00 min
Lab File: VN059590.D
Acq: 13 Dec 2019 17:50

Tgt Ion:128 Resp: 29314
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 10.8 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

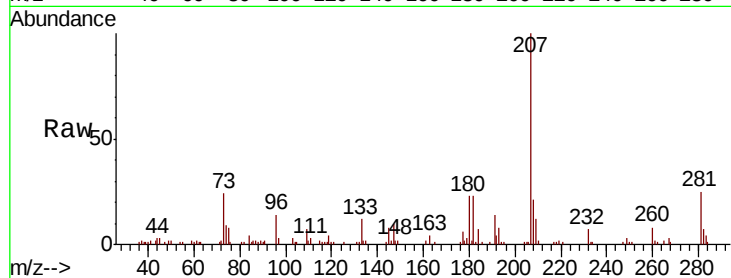




#96
 1,2,3-Trichlorobenzene
 Concen: 2.612 ug/l
 RT: 15.29 min Scan# 4205
 Delta R.T. -0.00 min
 Lab File: VN059590.D
 Acq: 13 Dec 2019 17:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.4	142.3
145	35.9	16.3	48.9



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

