

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102919\
 Data File : VN059010.D
 Acq On : 29 Oct 2019 15:01
 Operator : JC/SP
 Sample : K5576-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 03:57:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	379068	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	599281	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	539228	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	181302	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	263441	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
35) Dibromofluoromethane	7.57	113	193508	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
50) Toluene-d8	10.08	98	768476	50.24	ug/l	0.00
Spiked Amount			Recovery	=	100.48%	
62) 4-Bromofluorobenzene	12.40	95	229895	40.93	ug/l	0.00
Spiked Amount			Recovery	=	81.86%	

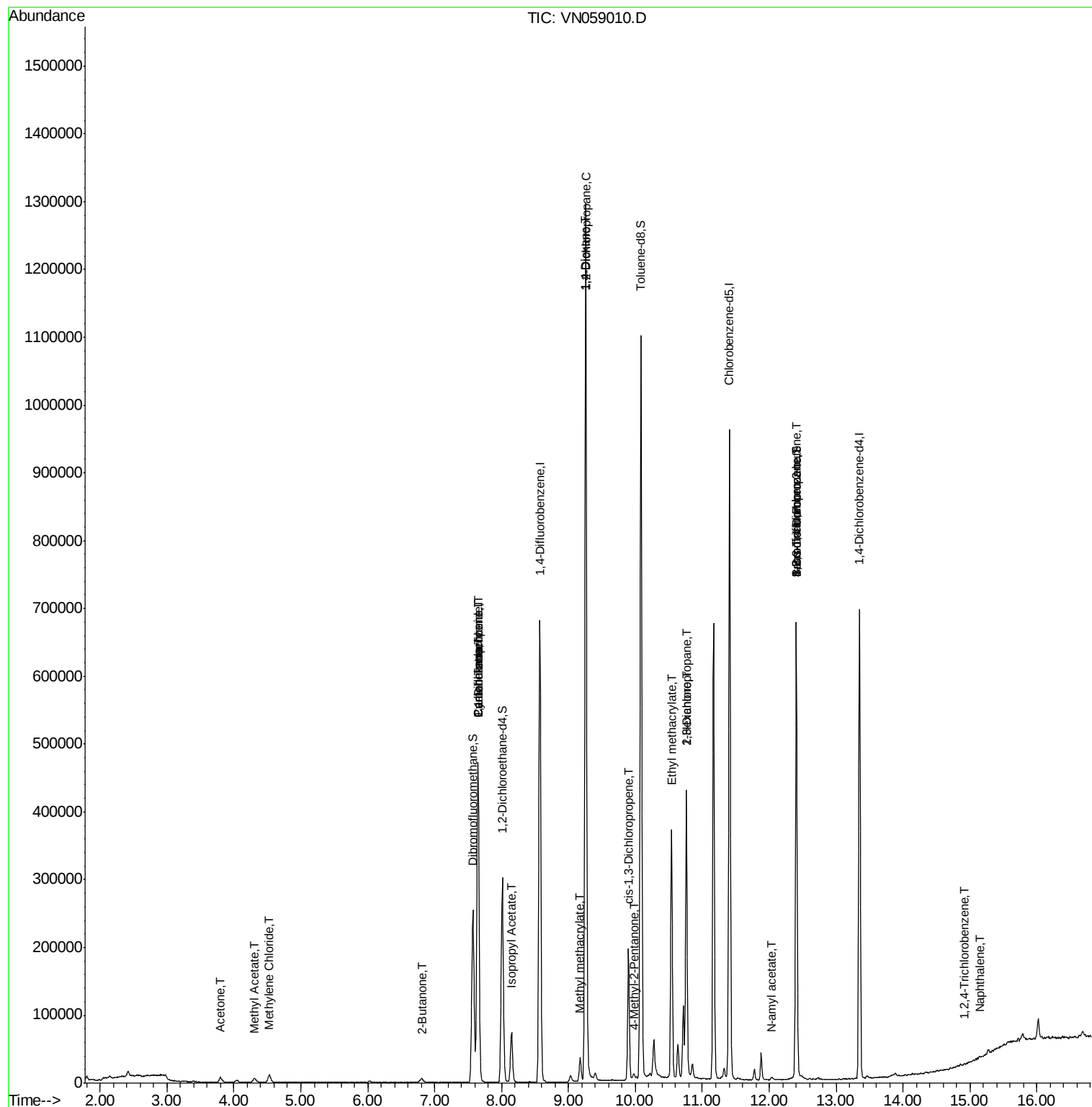
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	13412	4.882	ug/l	98
18) Methyl Acetate	4.30	43	9848	1.577	ug/l	97
20) Methylene Chloride	4.54	84	8388	1.788	ug/l #	84
25) 2-Butanone	6.82	43	1188	0.333	ug/l #	51
31) Cyclohexane	7.65	56	8215	1.028	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	31446	5.125	ug/l #	51
38) Carbon Tetrachloride	7.65	117	39341	6.224	ug/l #	16
43) Isopropyl Acetate	8.15	43	87920	8.200	ug/l #	92
45) 1,2-Dichloropropane	9.26	63	1573	0.318	ug/l #	44
48) Methyl methacrylate	9.17	41	5280	1.085	ug/l #	14
49) 1,4-Dioxane	9.25	88	65	0.814	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	6374	1.018	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	33773	4.436	ug/l #	68
56) Ethyl methacrylate	10.54	69	1602	2.305	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4436	0.574	ug/l #	43
59) 2-Hexanone	10.76	43	62632	12.943	ug/l #	55
71) Bromoform	12.41	173	1385	0.431	ug/l #	1
74) N-amyl acetate	12.03	43	3399	0.566	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	118790	28.271	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	118790	73.647	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.92	180	195	2.572	ug/l #	13
95) Naphthalene	15.13	128	494	2.271	ug/l #	70

(#) = 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# 1827

Delta R.T. 0.00 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

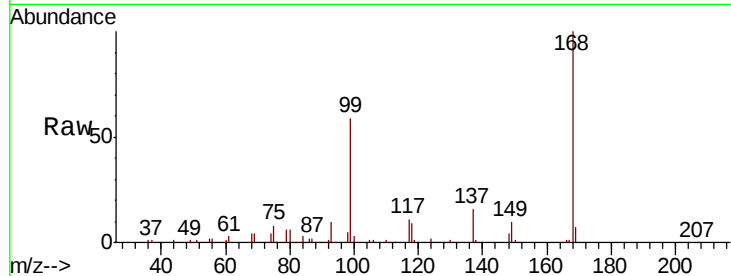
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 379068

Ion Ratio Lower Upper

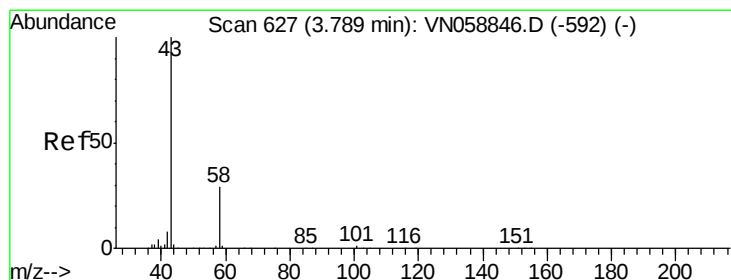
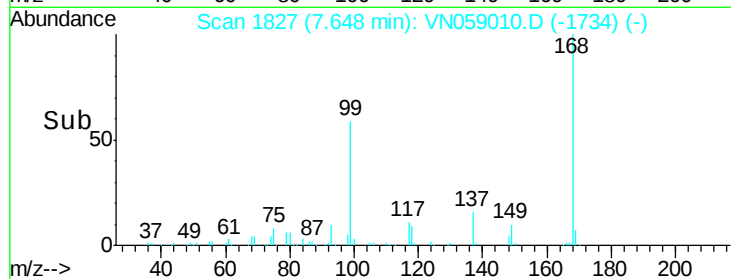
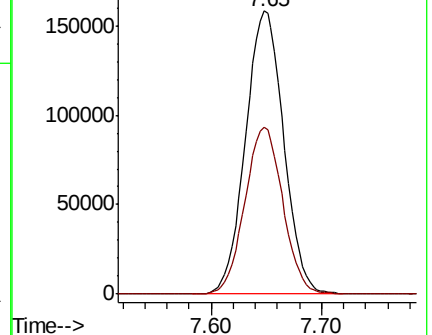
168 100

99 59.2 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 4.882 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059010.D

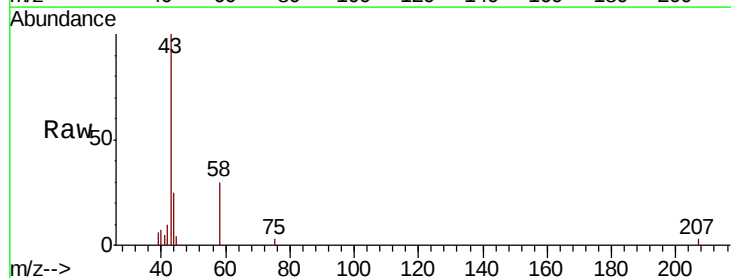
Acq: 29 Oct 2019 15:01

Tgt Ion: 43 Resp: 13412

Ion Ratio Lower Upper

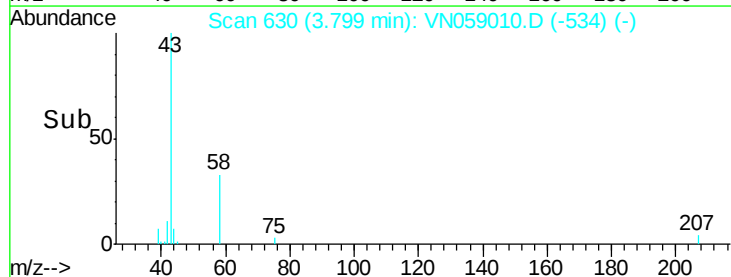
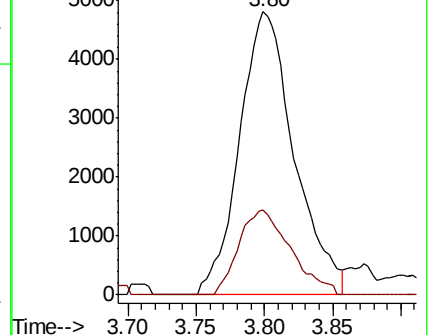
43 100

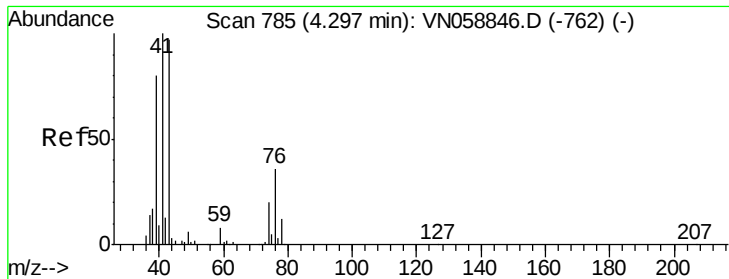
58 30.1 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

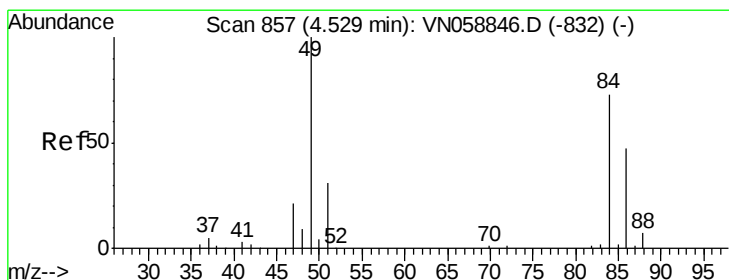
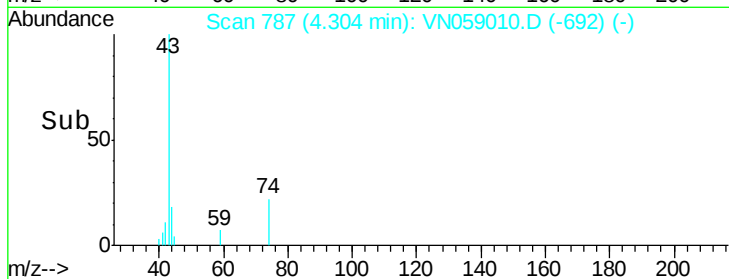
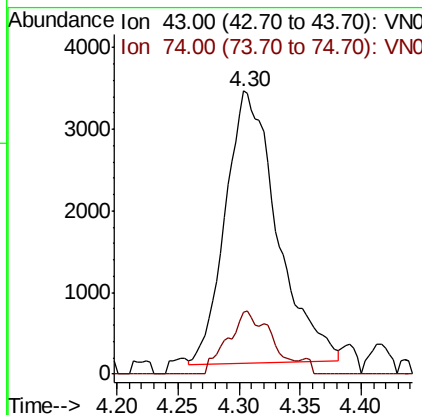
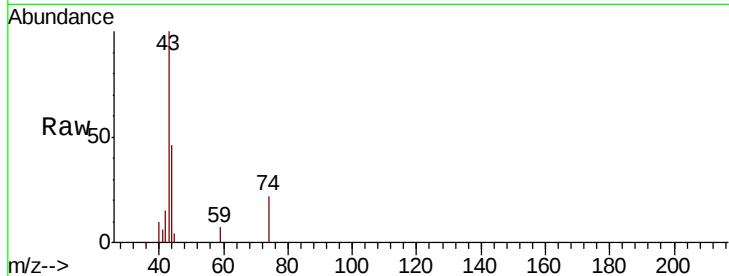




#18
Methvl Acetate
Concen: 1.577 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.01 min
Lab File: VN059010.D
Acq: 29 Oct 2019 15:01

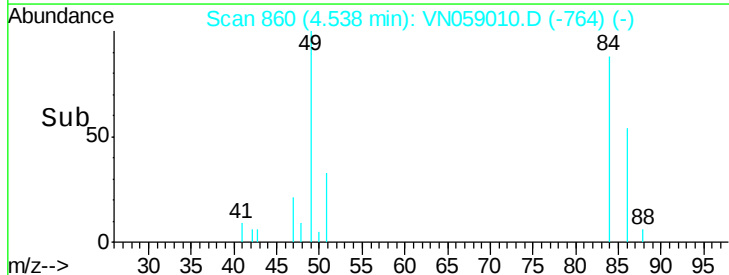
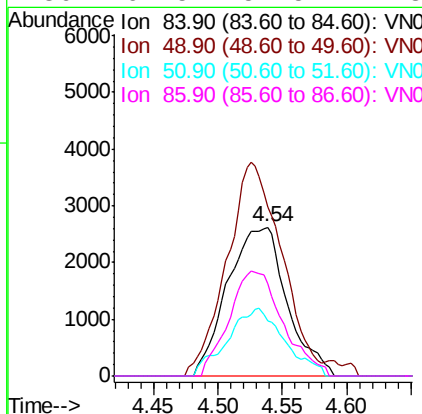
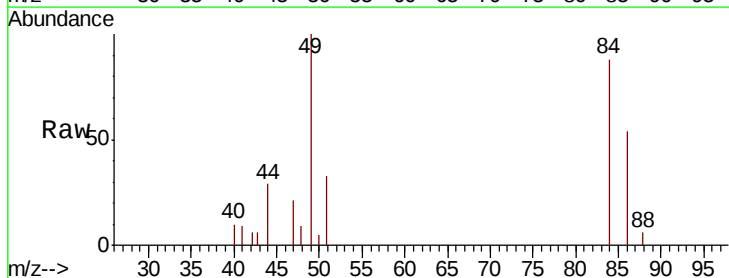
Instrument :
MSVOA_N
ClientSampleId :

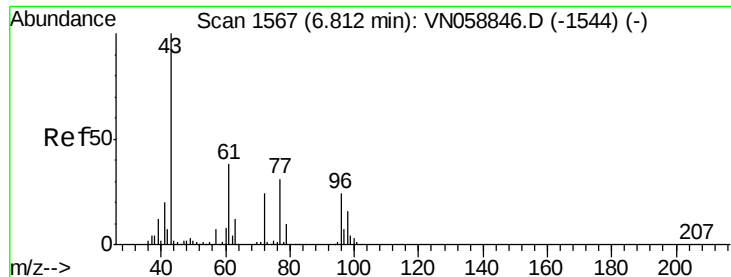
Tot Ion: 43 Resp: 9848
Ion Ratio Lower Upper
43 100
74 19.8 17.1 25.7



#20
Methylene Chloride
Concen: 1.788 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN059010.D
Acq: 29 Oct 2019 15:01

Tgt Ion: 84 Resp: 8388
Ion Ratio Lower Upper
84 100
49 107.9 109.6 164.4#
51 37.1 33.8 50.6
86 61.5 51.5 77.3





#25

2-Butanone

Concen: 0.333 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

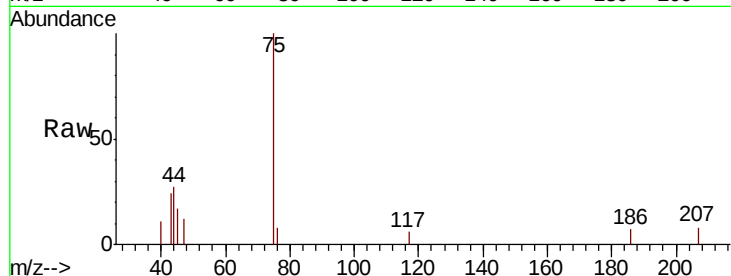
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1188

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

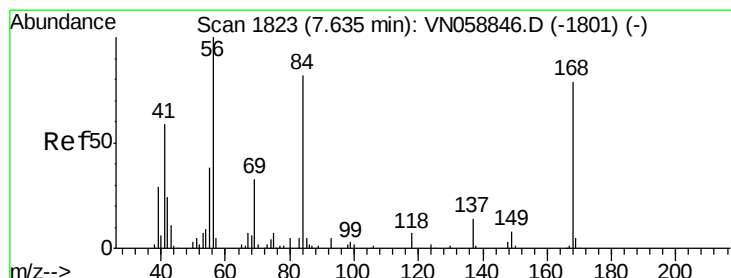
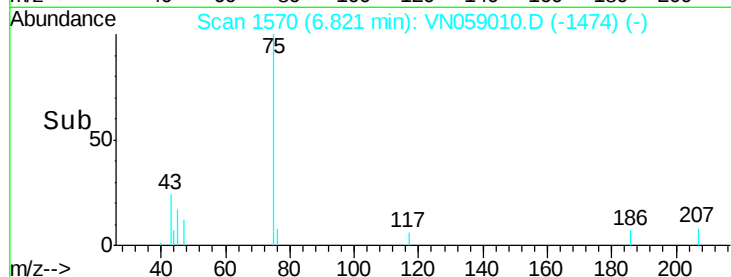
6.82

400

200

0

Time--> 6.76 6.78 6.80 6.82 6.84



#31

Cyclohexane

Concen: 1.028 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

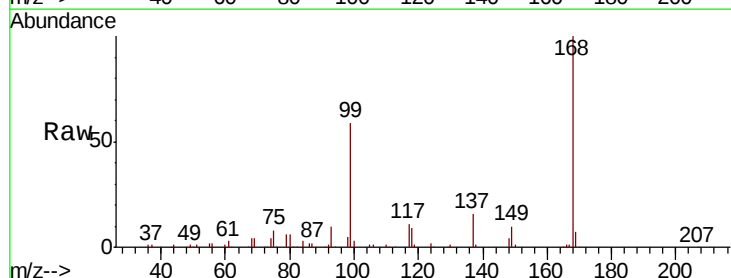
Tgt Ion: 56 Resp: 8215

Ion Ratio Lower Upper

56 100

69 183.1 26.2 39.4#

84 136.2 65.6 98.4#



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

8000

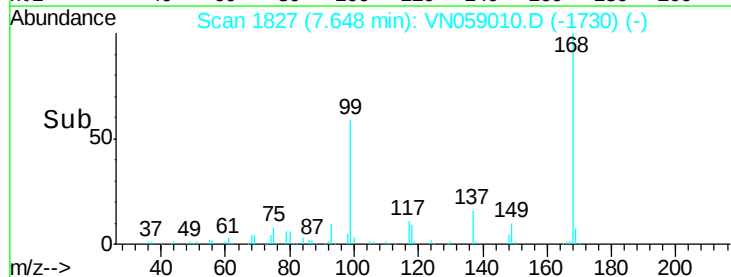
6000

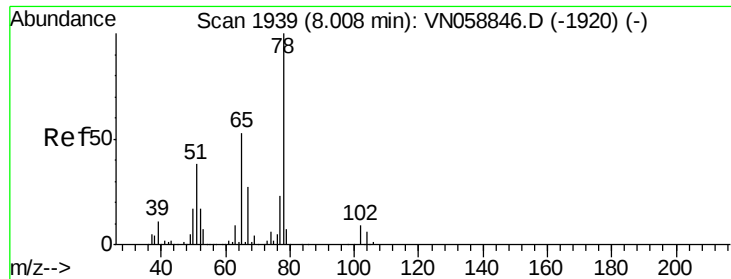
4000

2000

0

Time--> 7.60 7.65 7.70

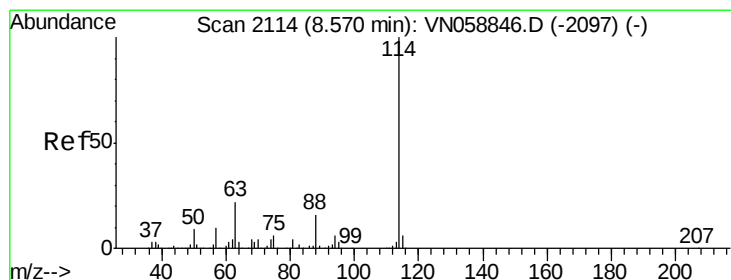
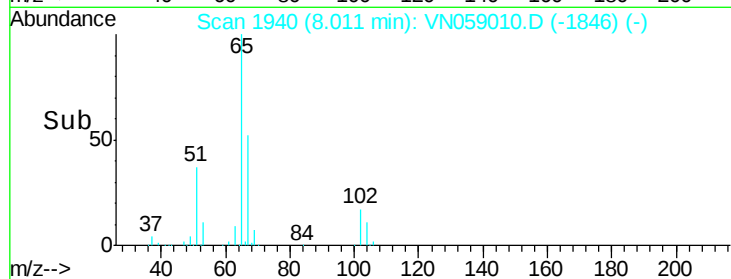
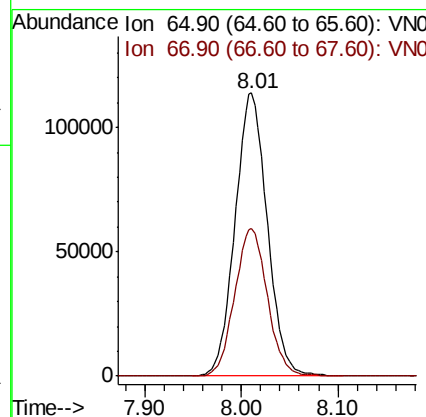
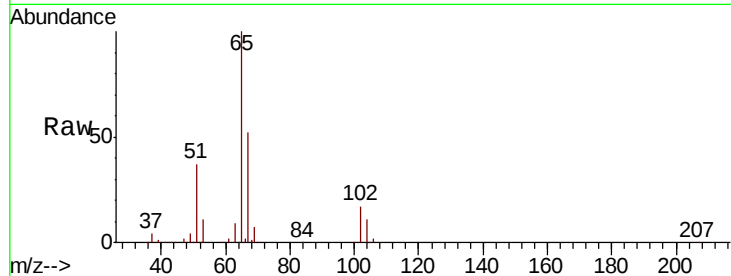




#33
 1,2-Dichloroethane-d4
 Concen: 47.385 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN059010.D
 Acq: 29 Oct 2019 15:01

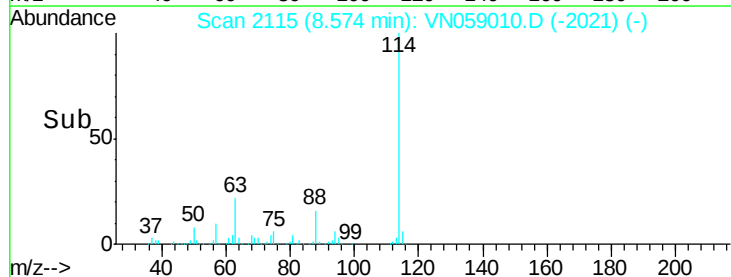
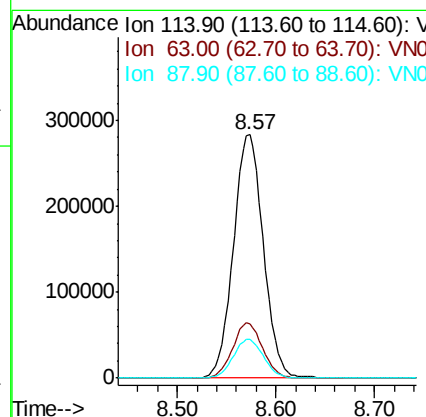
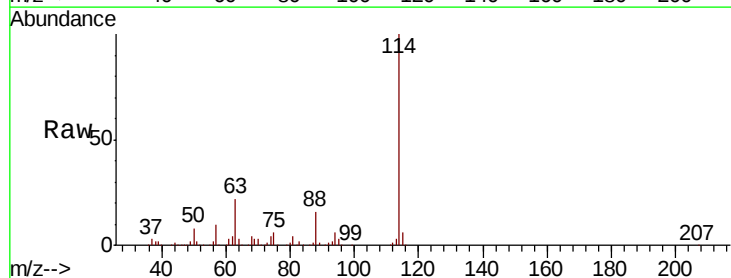
Instrument :
 MSVOA_N
 ClientSampled :

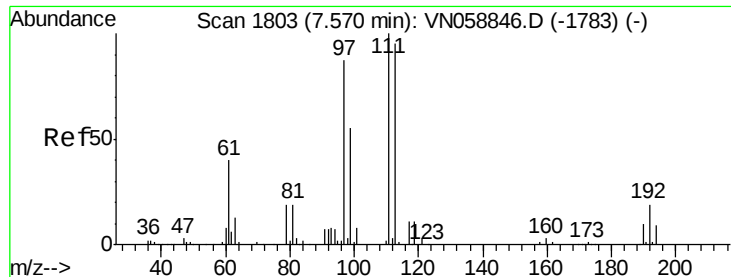
Tot Ion: 65 Resp: 263441
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN059010.D
 Acq: 29 Oct 2019 15:01

Tgt Ion: 114 Resp: 599281
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.4
 88 15.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.112 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Instrument :
MSVOA_N
ClientSampleId :

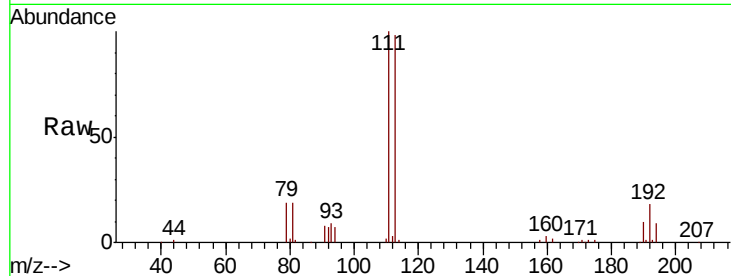
Tot Ion:113 Resp: 193508

Ion Ratio Lower Upper

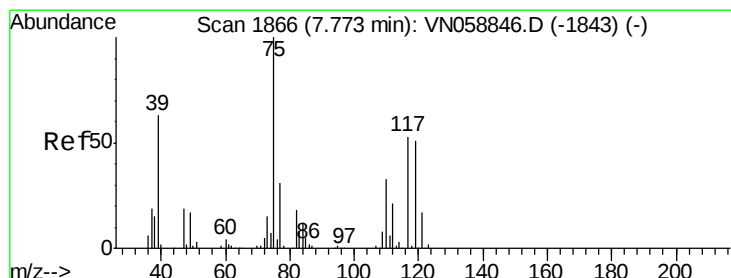
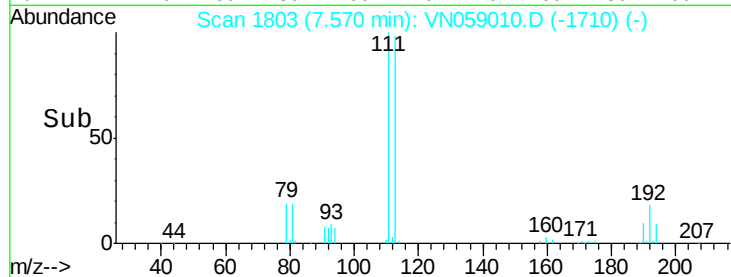
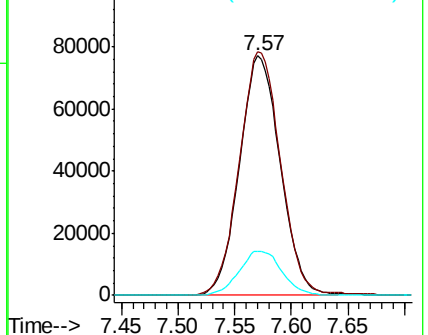
113 100

111 103.2 82.0 123.0

192 19.3 15.0 22.6



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.125 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

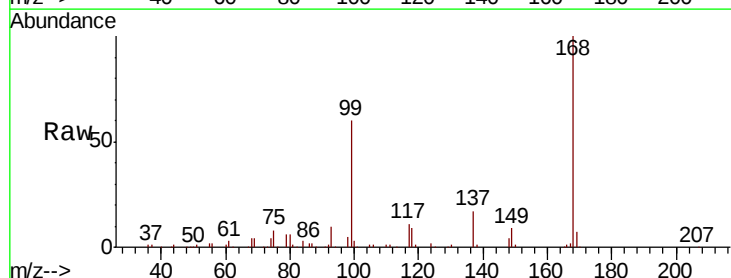
Tgt Ion: 75 Resp: 31446

Ion Ratio Lower Upper

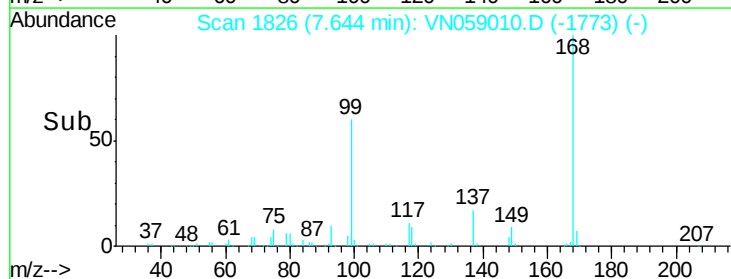
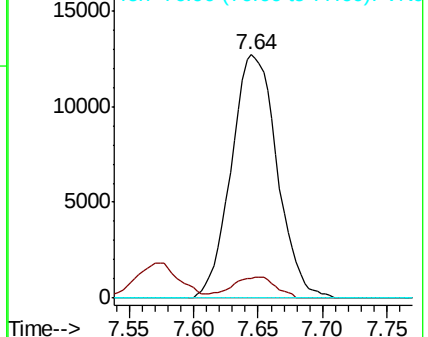
75 100

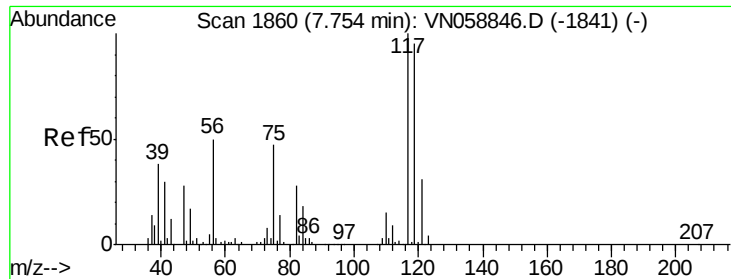
110 8.5 16.3 48.9#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.224 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Instrument :

MSVOA_N

ClientSampled :

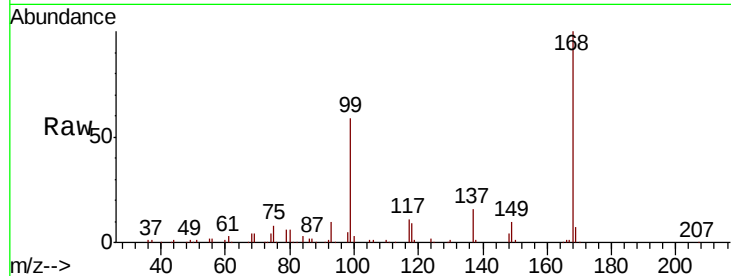
Tot Ion:117 Resp: 39341

Ion Ratio Lower Upper

117 100

119 5.0 75.7 113.5#

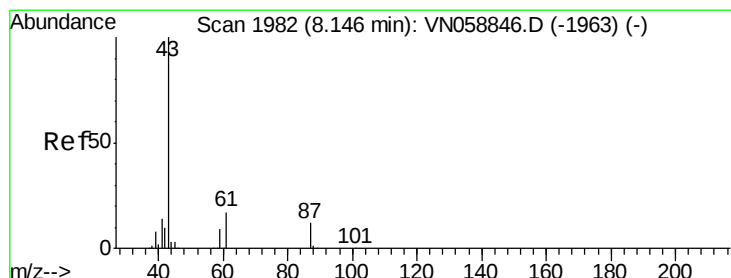
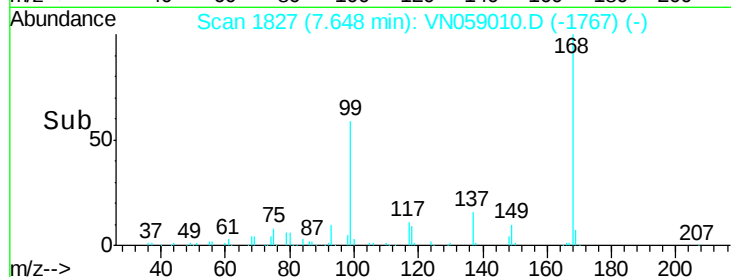
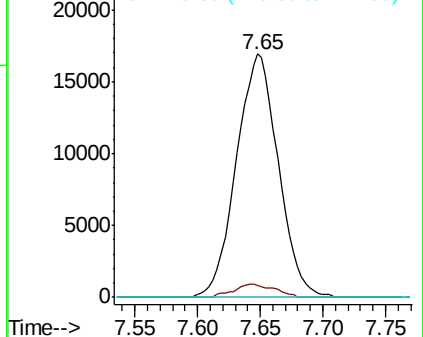
121 0.0 25.0 37.6#



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



#43

Isopropyl Acetate

Concen: 8.200 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

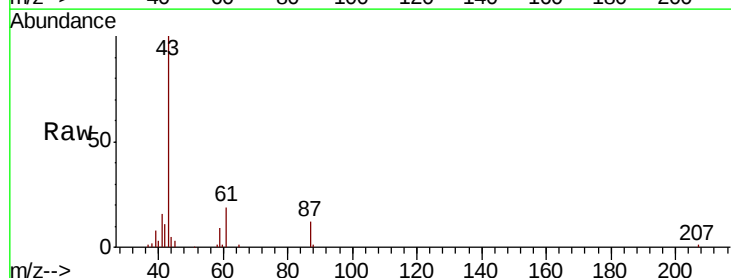
Tgt Ion: 43 Resp: 87920

Ion Ratio Lower Upper

43 100

61 19.1 20.2 30.2#

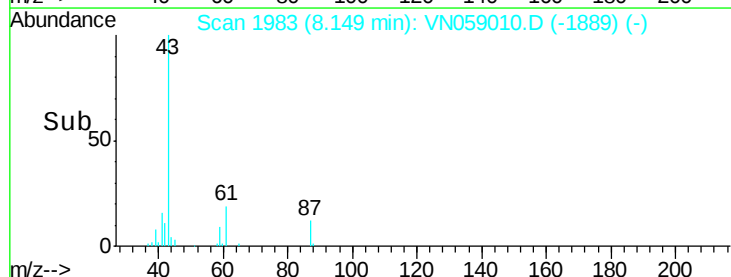
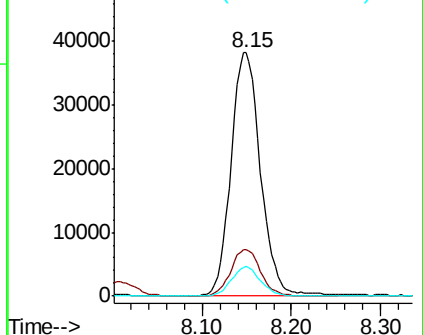
87 11.7 9.5 14.3

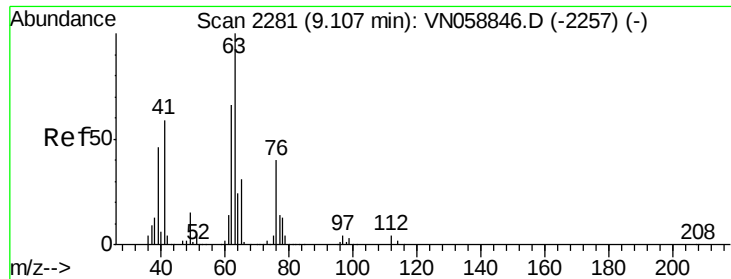


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.318 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.15 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Instrument :

MSVOA_N

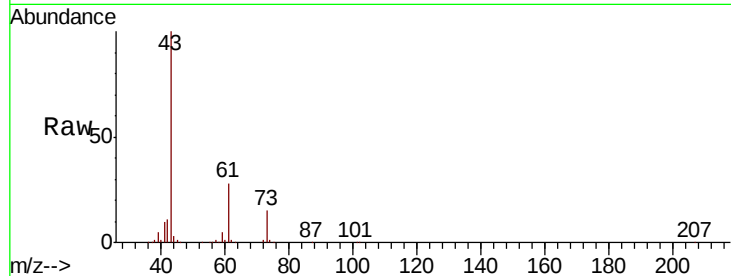
ClientSampled :

Tot Ion: 63 Resp: 1573

Ion Ratio Lower Upper

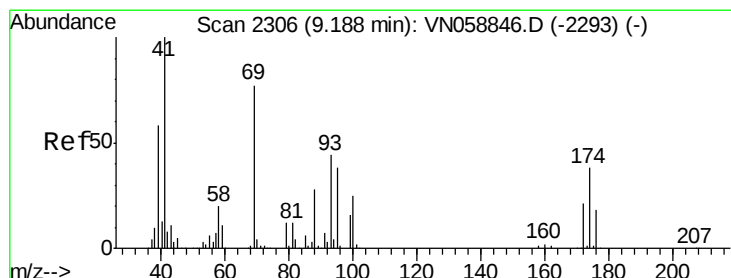
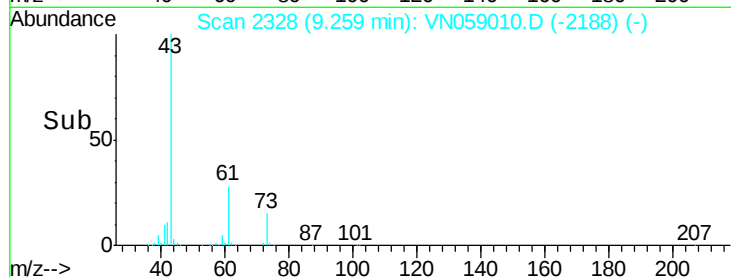
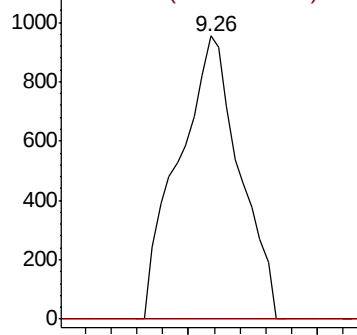
63 100

65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.085 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.02 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

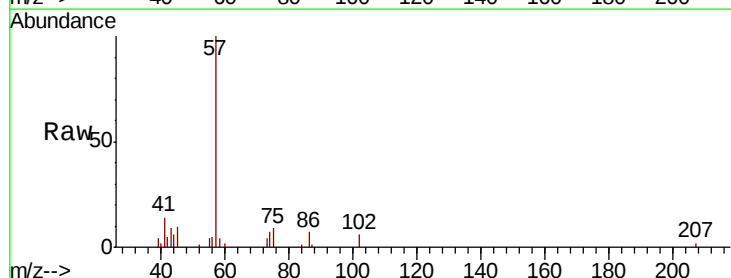
Tgt Ion: 41 Resp: 5280

Ion Ratio Lower Upper

41 100

69 0.0 63.8 95.6#

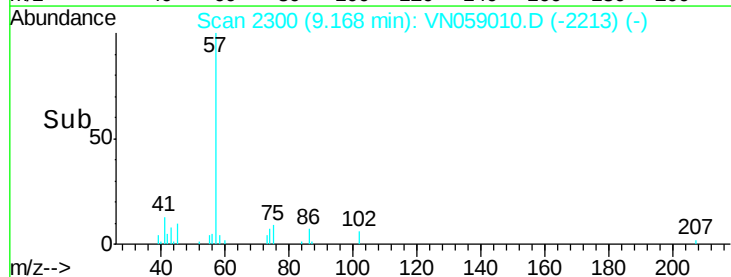
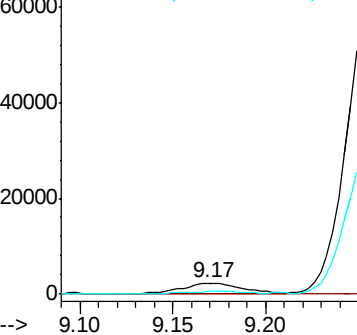
39 0.0 47.8 71.8#

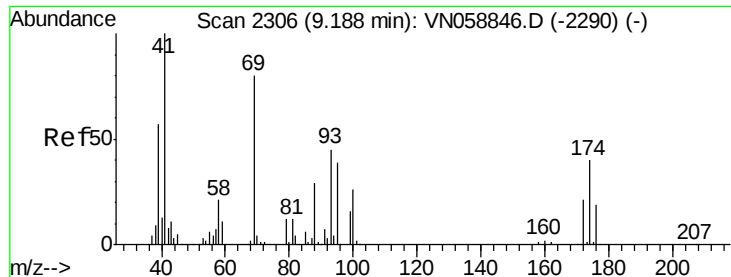


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

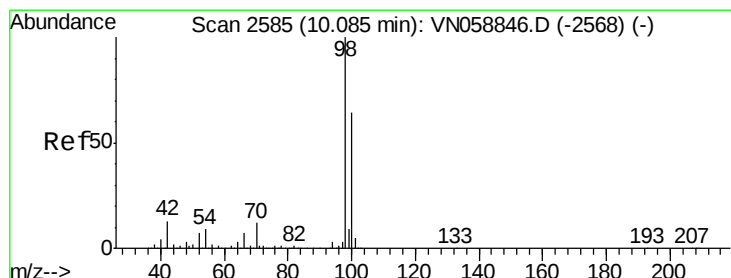
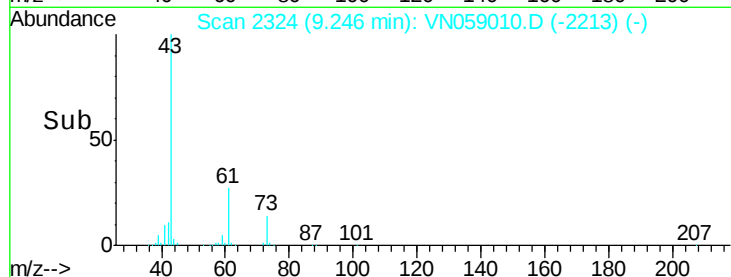
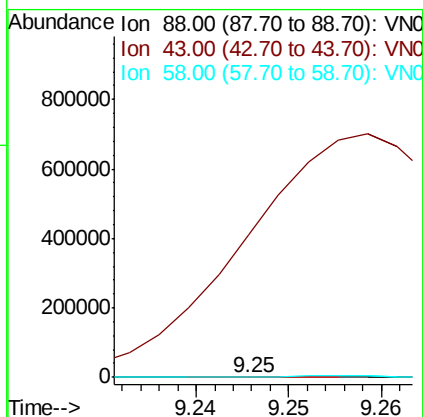
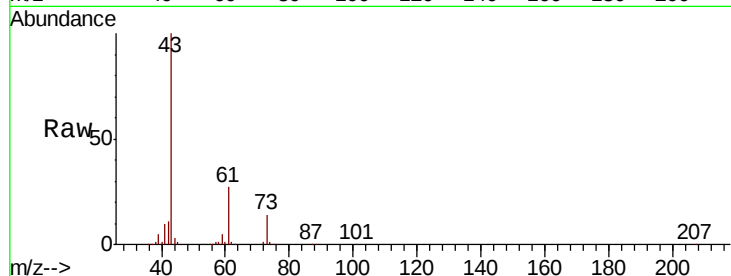




#49
1,4-Dioxane
Concen: 0.814 ug/l
RT: 9.25 min Scan# 2324
Delta R.T. 0.06 min
Lab File: VN059010.D
Acq: 29 Oct 2019 15:01

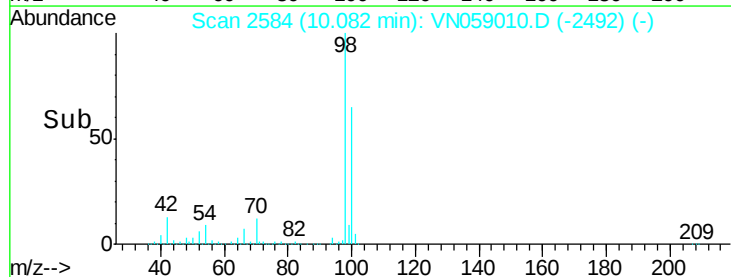
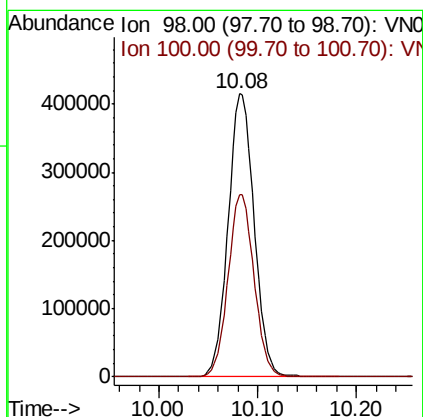
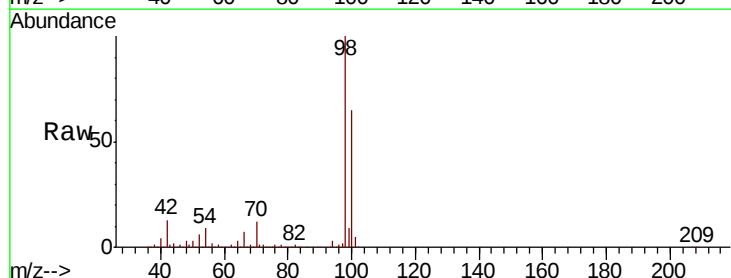
Instrument :
MSVOA_N
ClientSampleId :

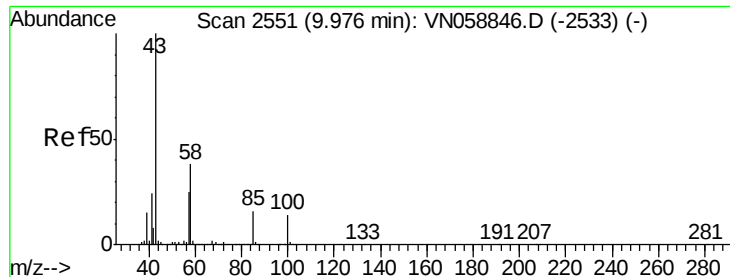
Tot Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 1969401.5 29.1 43.7#
58 9835.4 59.4 89.0#



#50
Toluene-d8
Concen: 50.244 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. -0.00 min
Lab File: VN059010.D
Acq: 29 Oct 2019 15:01

Tgt Ion: 98 Resp: 768476
Ion Ratio Lower Upper
98 100
100 64.1 51.4 77.2





#51

4-Methyl-2-Pentanone

Concen: 1.018 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Instrument :

MSVOA_N

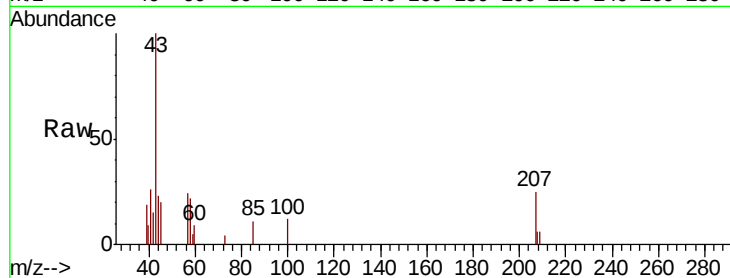
ClientSampled :

Tot Ion: 43 Resp: 6374

Ion Ratio Lower Upper

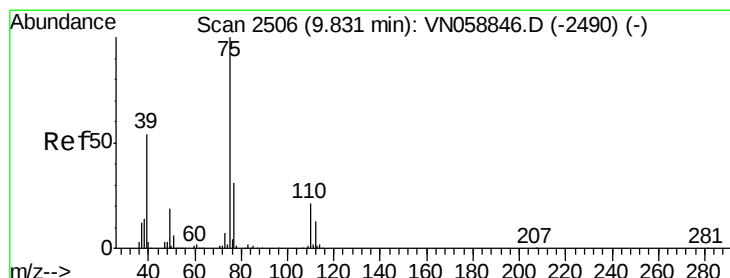
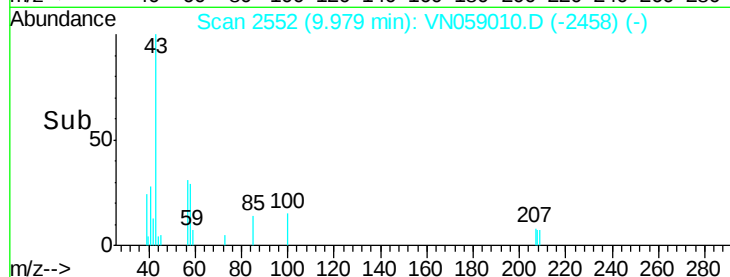
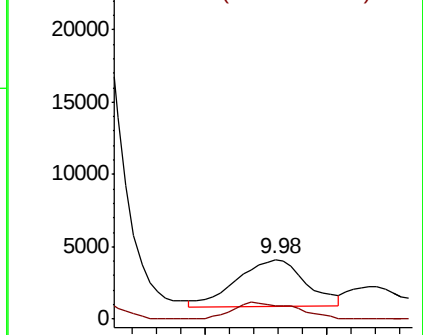
43 100

58 33.3 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO



#54

cis-1,3-Dichloropropene

Concen: 4.436 ug/l

RT: 9.90 min Scan# 2526

Delta R.T. 0.06 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

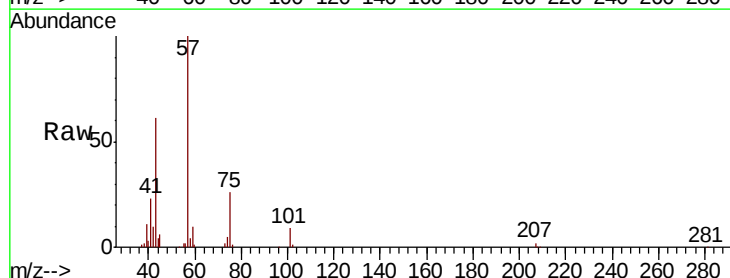
Tgt Ion: 75 Resp: 33773

Ion Ratio Lower Upper

75 100

77 0.0 24.7 37.1#

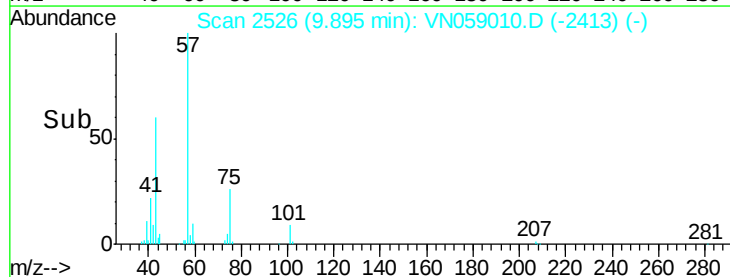
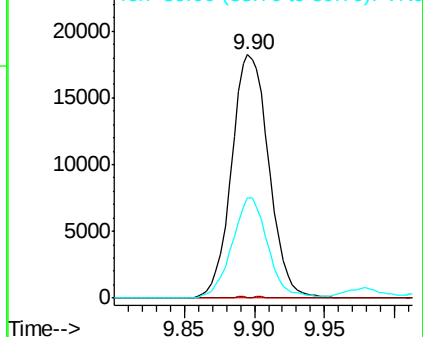
39 41.4 43.5 65.3#

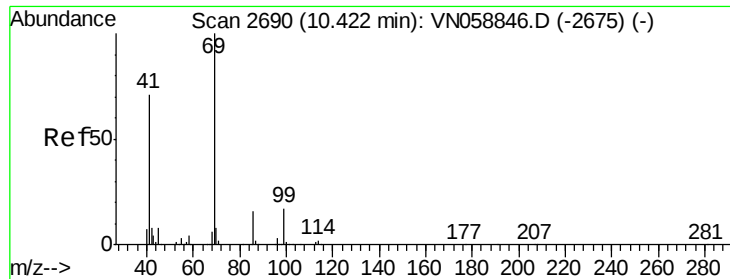


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 76.90 (76.60 to 77.60): VNO

Ion 39.00 (38.70 to 39.70): VNO





#56

Ethyl methacrylate

Concen: 2.305 ug/l

RT: 10.54 min Scan# 2727

Delta R.T. 0.12 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Instrument :

MSVOA_N

ClientSampled :

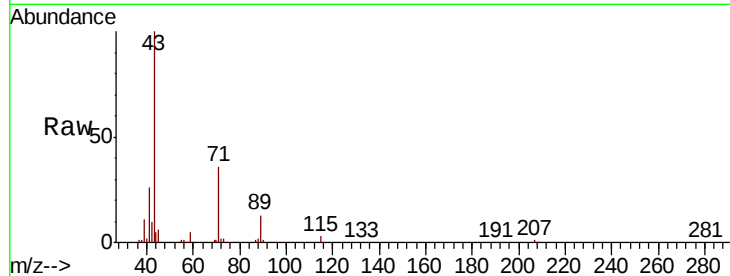
Tot Ion: 69 Resp: 1602

Ion Ratio Lower Upper

69 100

41 4439.5 57.2 85.8#

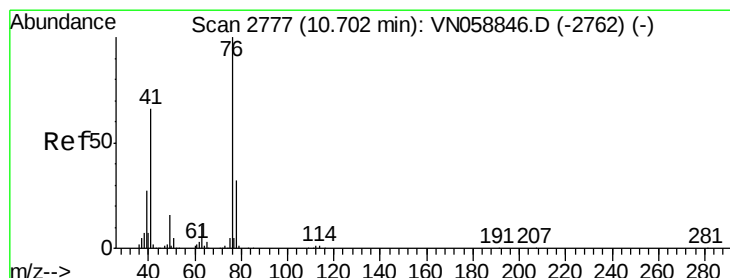
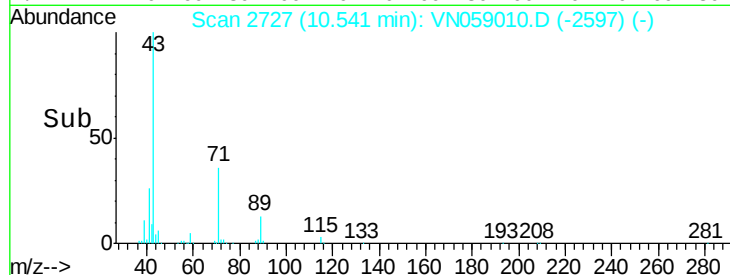
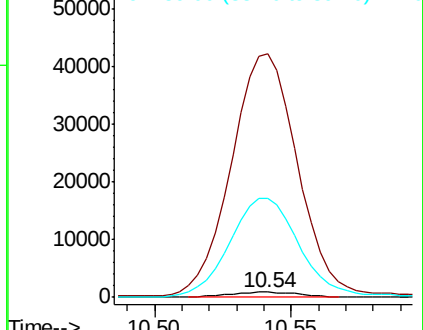
39 1915.4 31.0 46.4#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.574 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN059010.D

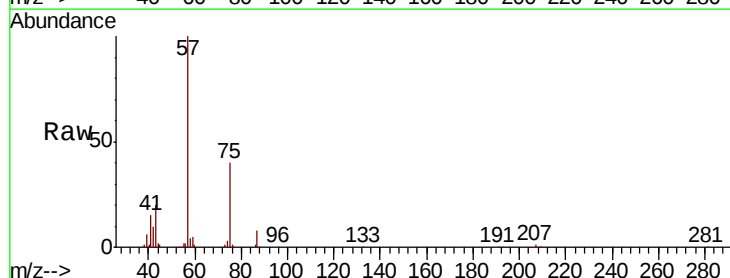
Acq: 29 Oct 2019 15:01

Tgt Ion: 76 Resp: 4436

Ion Ratio Lower Upper

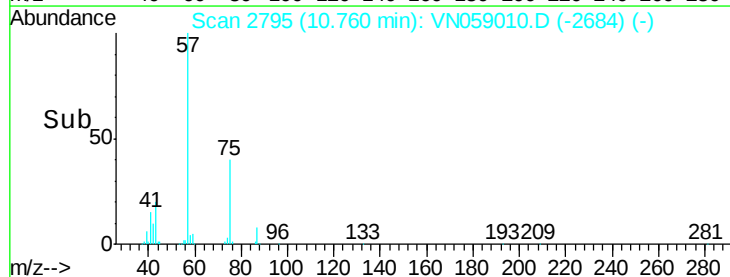
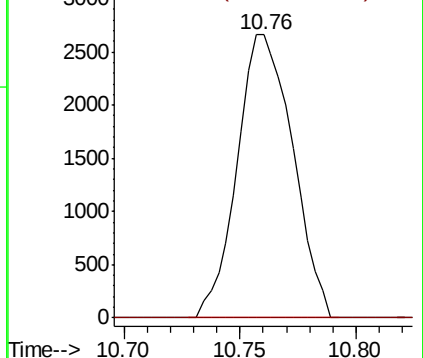
76 100

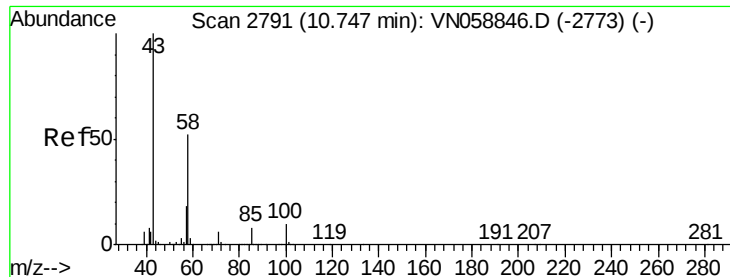
78 0.0 25.4 38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

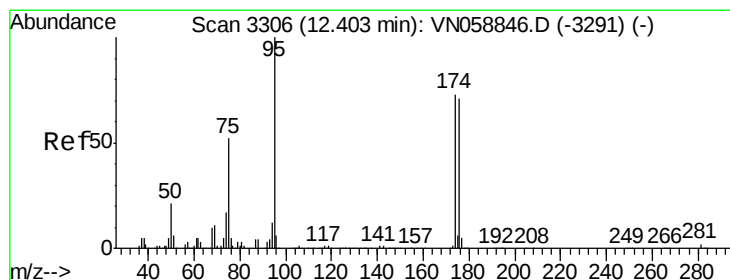
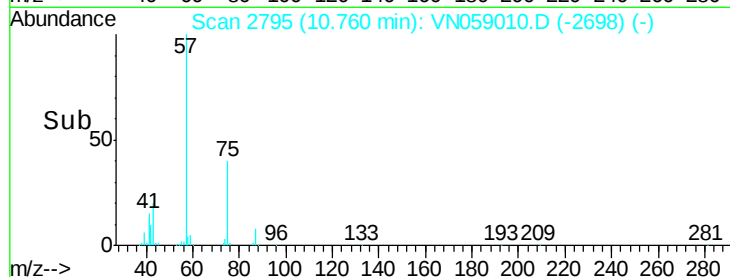
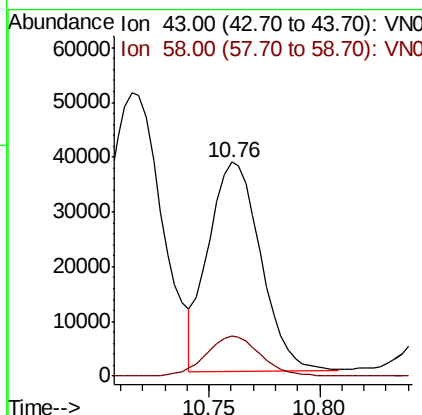
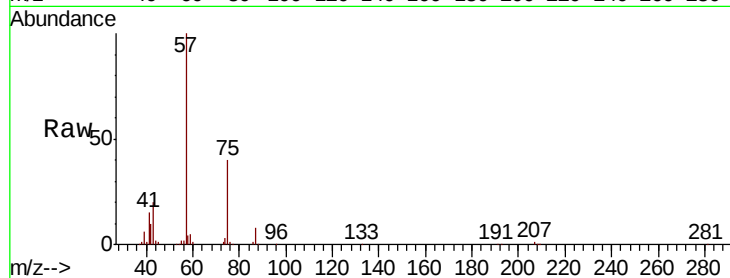




#59
2-Hexanone
Concen: 12.943 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN059010.D
Acq: 29 Oct 2019 15:01

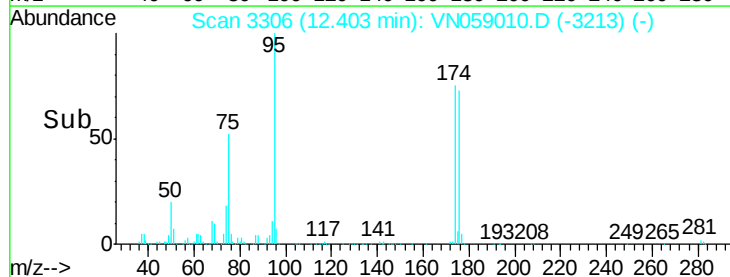
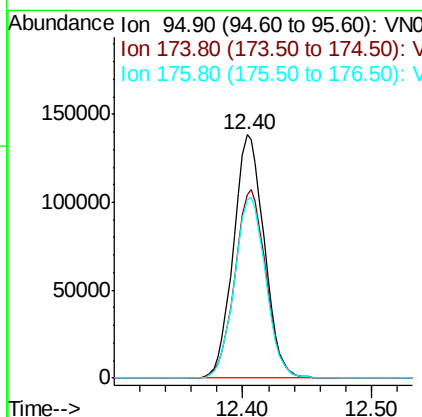
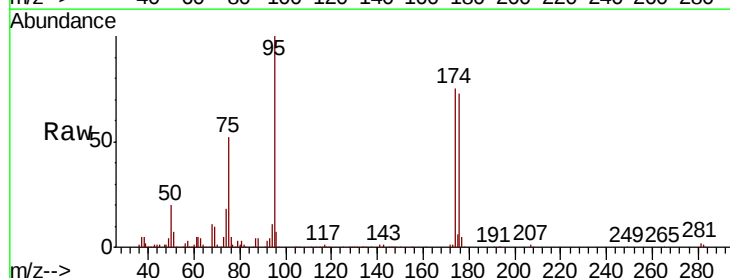
Instrument :
MSVOA_N
ClientSampled :

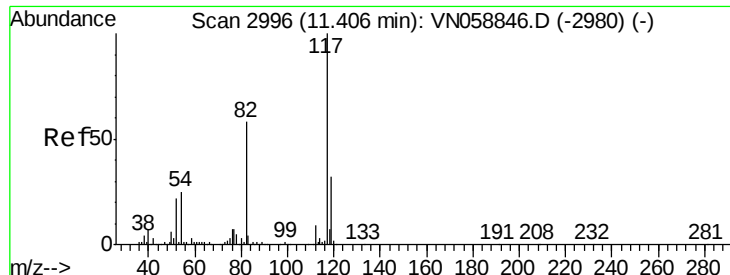
Tot Ion: 43 Resp: 62632
Ion Ratio Lower Upper
43 100
58 19.9 25.9 77.7#



#62
4-Bromofluorobenzene
Concen: 40.930 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059010.D
Acq: 29 Oct 2019 15:01

Tgt Ion: 95 Resp: 229895
Ion Ratio Lower Upper
95 100
174 78.1 0.0 147.6
176 75.2 0.0 143.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Instrument :

MSVOA_N

ClientSampled :

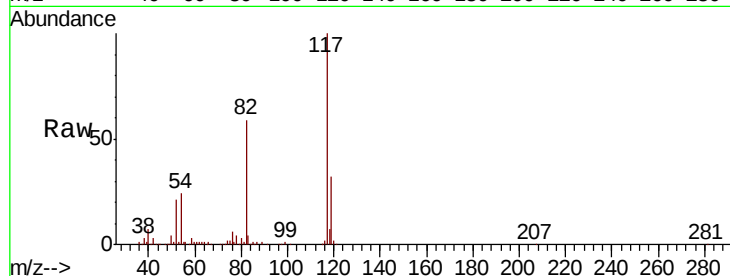
Tot Ion:117 Resp: 539228

Ion Ratio Lower Upper

117 100

82 58.6 46.6 69.8

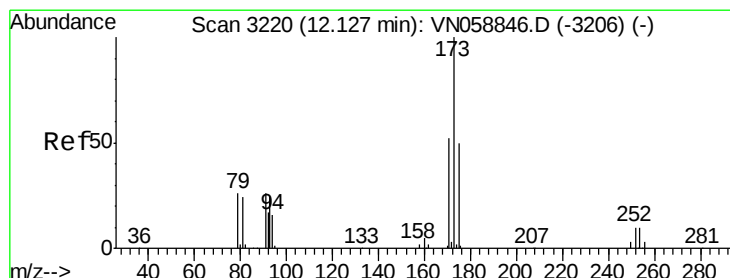
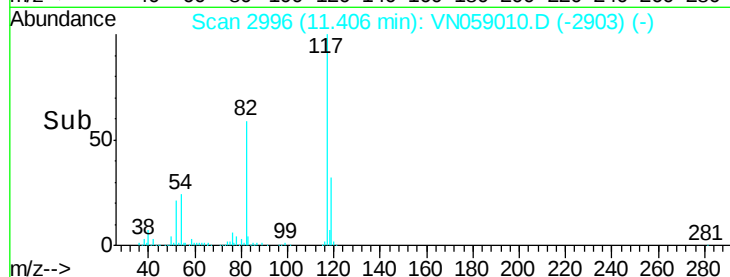
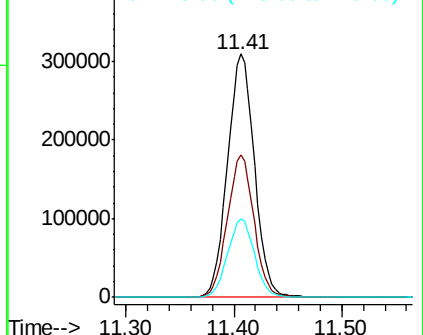
119 32.5 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 0.431 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

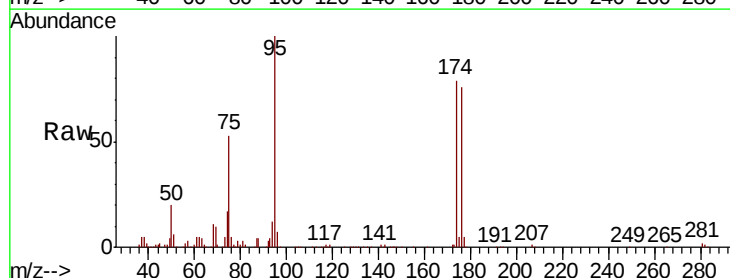
Tgt Ion:173 Resp: 1385

Ion Ratio Lower Upper

173 100

175 727.7 24.7 74.1#

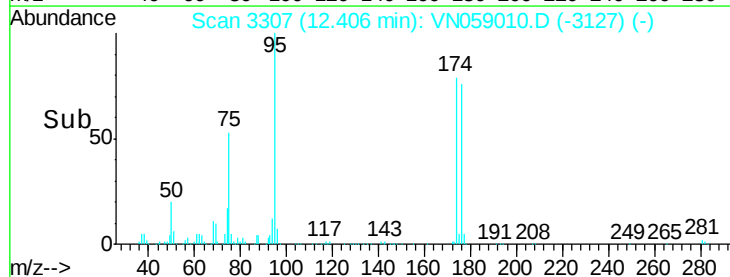
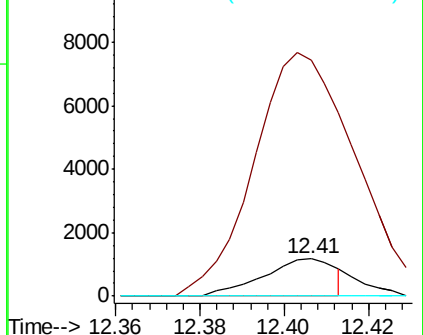
254 0.0 0.0 0.0

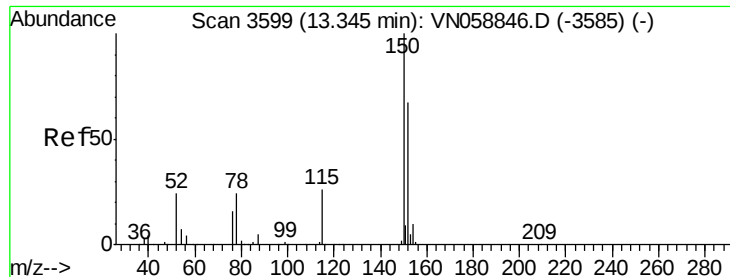


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Instrument :

MSVOA_N

ClientSampleId :

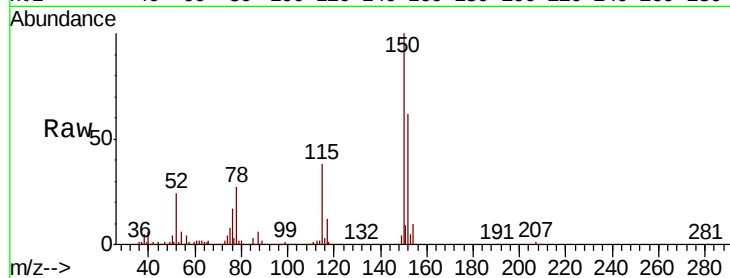
Tot Ion:152 Resp: 181302

Ion Ratio Lower Upper

152 100

115 61.0 30.5 91.5

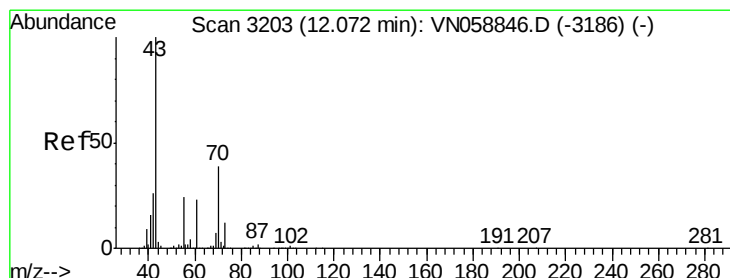
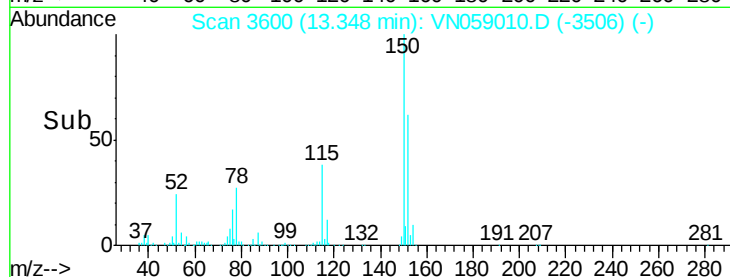
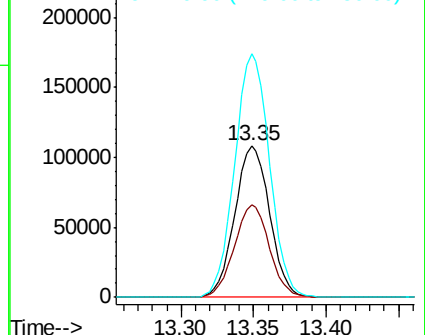
150 160.0 0.0 344.4



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



#74

N-ethyl acetate

Concen: 0.566 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Tgt Ion: 43 Resp: 3399

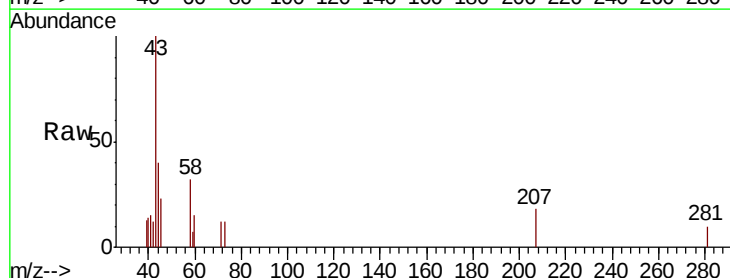
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 0.0 19.7 29.5#

61 0.0 18.2 27.4#

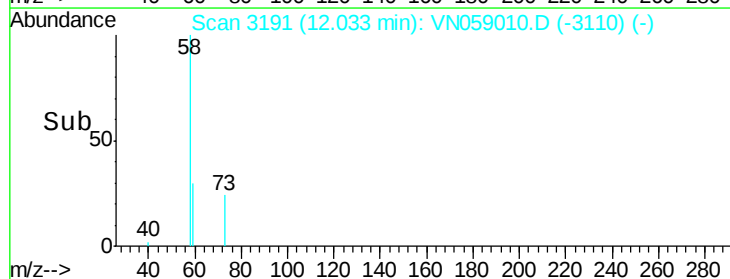
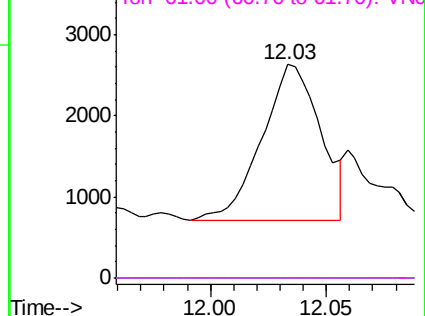


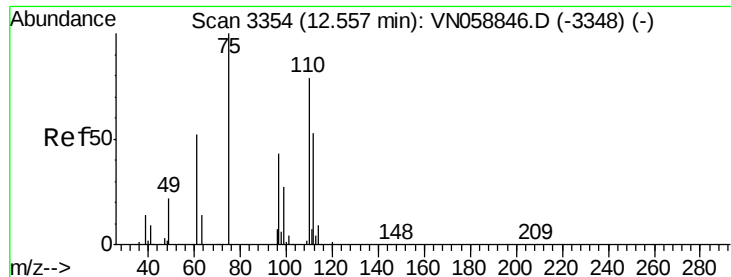
Abundance Ion 43.00 (42.70 to 43.70): VNO

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





#76

1,2,3-Trichloropropane

Concen: 28.271 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

Instrument :

MSVOA_N

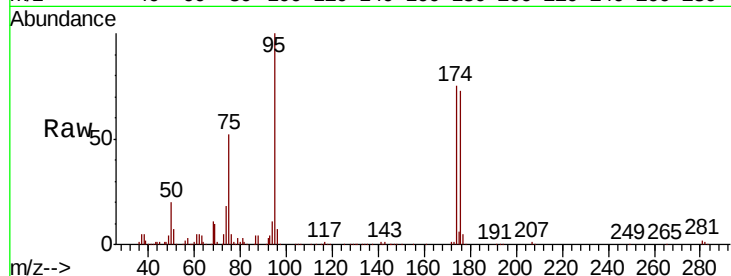
ClientSampled :

Tot Ion: 75 Resp: 118790

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

80000

60000

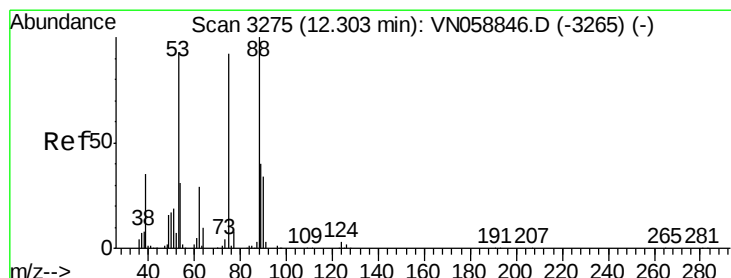
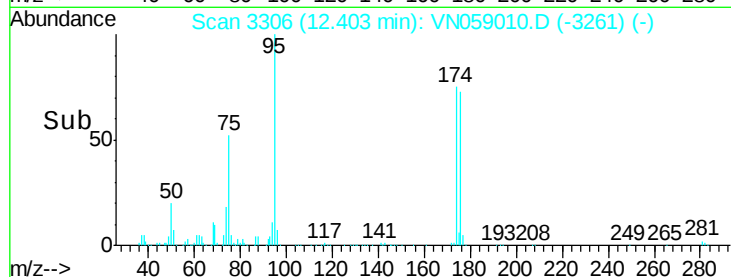
40000

20000

0

Time-->

12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 73.647 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059010.D

Acq: 29 Oct 2019 15:01

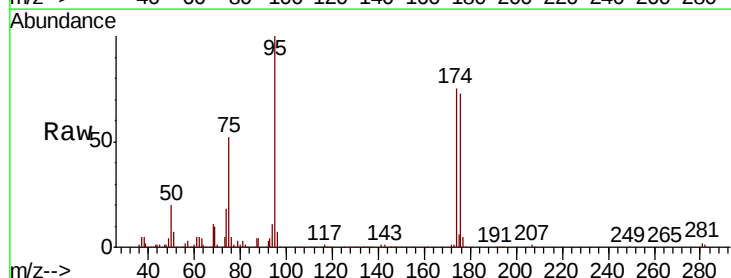
Tgt Ion: 75 Resp: 118790

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

89 0.0 35.4 53.0#



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

80000

60000

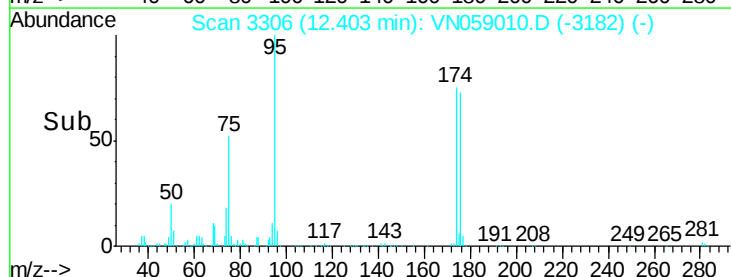
40000

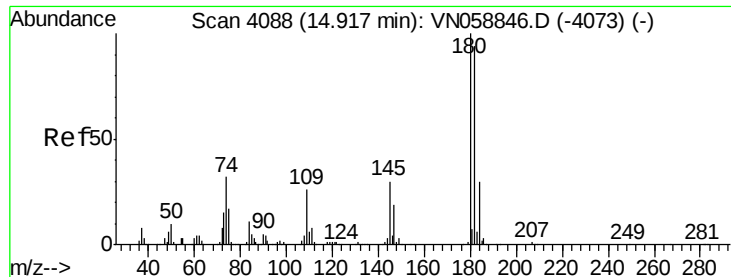
20000

0

Time-->

12.35 12.40 12.45

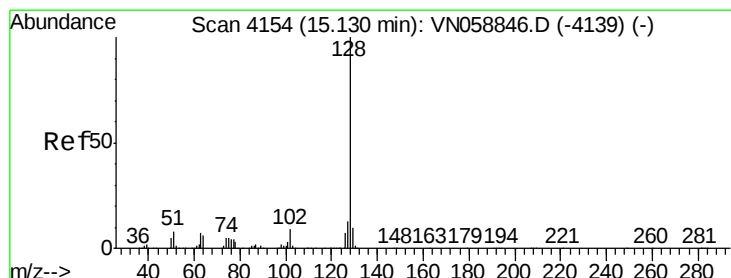
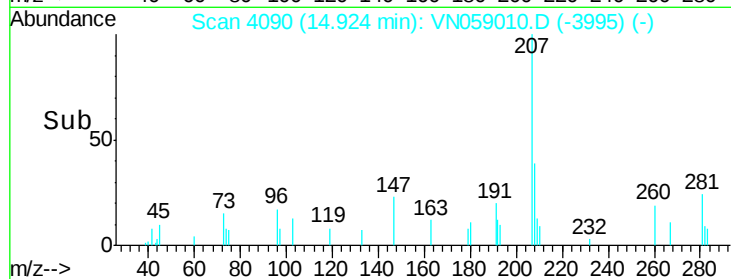
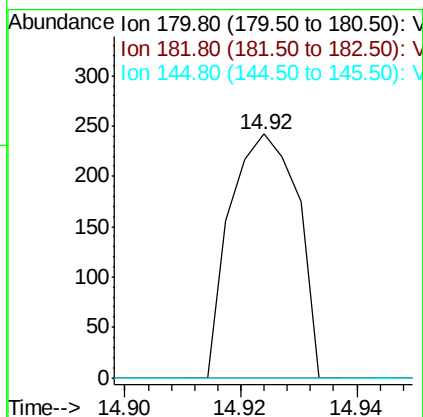
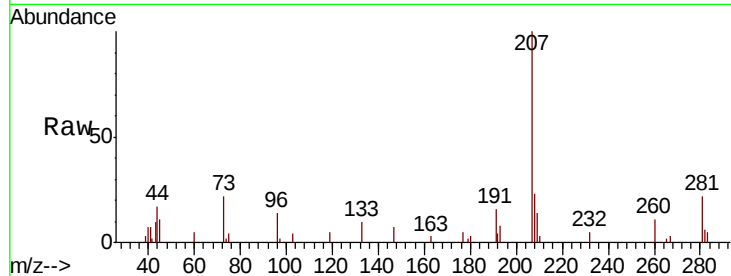




#93
 1,2,4-Trichlorobenzene
 Concen: 2.572 ug/l
 RT: 14.92 min Scan# 4090
 Delta R.T. 0.01 min
 Lab File: VN059010.D
 Acq: 29 Oct 2019 15:01

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.3	142.0#
145	0.0	15.3	45.8#



#95
 Naphthalene
 Concen: 2.271 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN059010.D
 Acq: 29 Oct 2019 15:01

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.4	12.6#

