

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020420\
 Data File : VN059996.D
 Acq On : 4 Feb 2020 15:56
 Operator : JC/MD
 Sample : L1383-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-A-1

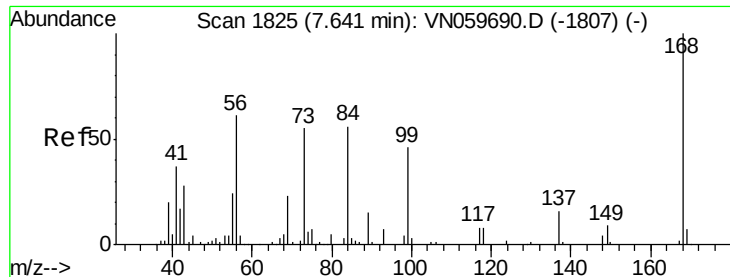
Quant Time: Feb 05 01:24:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200695	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	314117	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	293573	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	137594	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	113506	50.93	ug/l	0.00
Spiked Amount			Recovery	=	101.86%	
35) Dibromofluoromethane	7.57	113	94644	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
50) Toluene-d8	10.08	98	375455	51.73	ug/l	0.00
Spiked Amount			Recovery	=	103.46%	
62) 4-Bromofluorobenzene	12.40	95	137619	52.60	ug/l	0.00
Spiked Amount			Recovery	=	105.20%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	7168	Below Cal		96
18) Methyl Acetate	4.31	43	1407	0.540	ug/l #	54
20) Methylene Chloride	4.53	84	3796	0.604	ug/l #	84
25) 2-Butanone	6.82	43	948	0.751	ug/l #	50
31) Cyclohexane	7.64	56	4095	1.242	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14191	5.188	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18878	6.344	ug/l #	17
40) Benzene	8.02	78	4848	0.594	ug/l	93
43) Isopropyl Acetate	8.14	43	46480	10.533	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	951	0.471	ug/l #	44
48) Methyl methacrylate	9.16	41	2617	1.326	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2903	1.138	ug/l	98
54) cis-1,3-Dichloropropene	9.89	75	21714	6.441	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3429	1.058	ug/l #	42
59) 2-Hexanone	10.75	43	45391	24.153	ug/l #	54
74) N-amyl acetate	12.03	43	1933	0.494	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	70867	30.605	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	70867	65.723	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	30	Below Cal	#	6
95) Naphthalene	15.13	128	5399	0.720	ug/l #	94

(#) = 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: VN059996.D

Acq: 4 Feb 2020 15:56

Instrument :

MSVOA_N

ClientSampled :

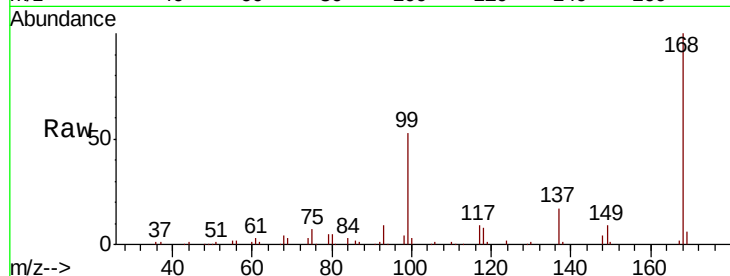
TP-A-1

Tot Ion:168 Resp: 200695

Ion Ratio Lower Upper

168 100

99 53.2 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059996.D (-1732) (-)

Ion 98.90 (98.60 to 99.60): VN059996.D (-1732) (-)

7.64

80000

60000

40000

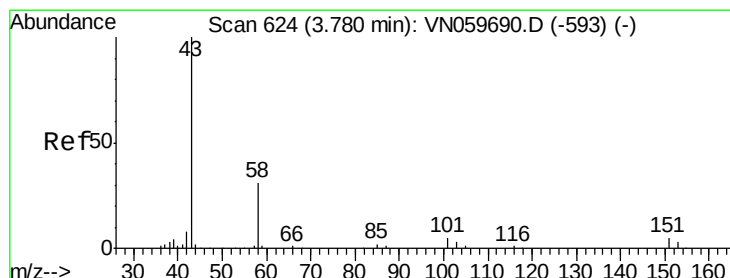
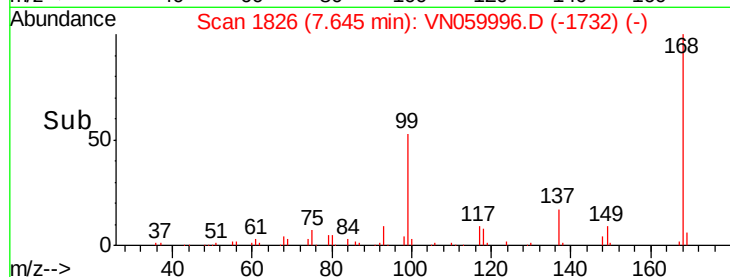
20000

0

Time-->

7.60

7.70



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059996.D

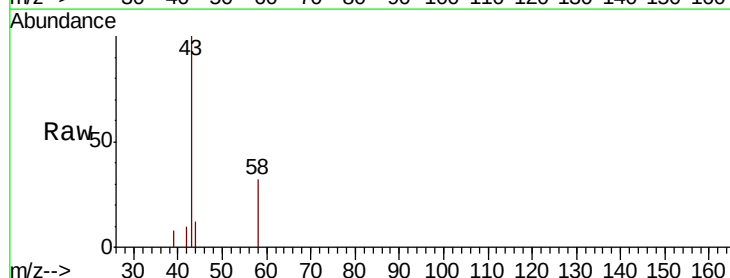
Acq: 4 Feb 2020 15:56

Tgt Ion: 43 Resp: 7168

Ion Ratio Lower Upper

43 100

58 31.5 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059996.D (-530) (-)

Ion 58.00 (57.70 to 58.70): VN059996.D (-530) (-)

3.79

2500

2000

1500

1000

500

0

Time-->

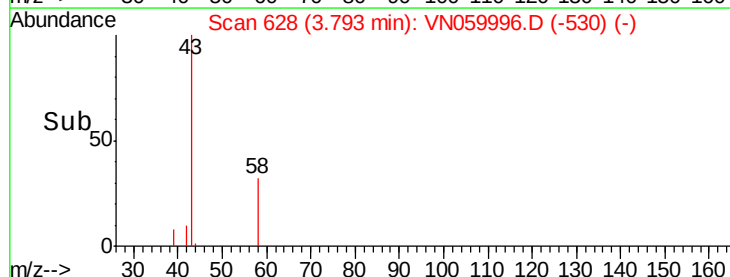
3.70

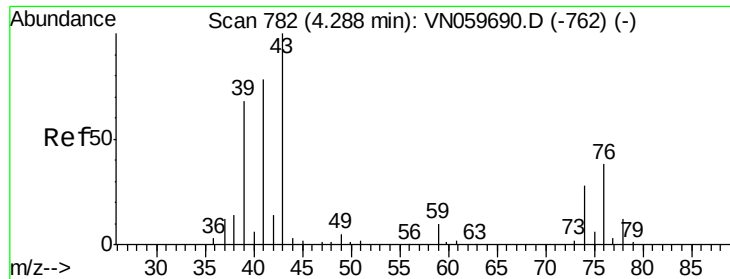
3.75

3.80

3.85

3.90

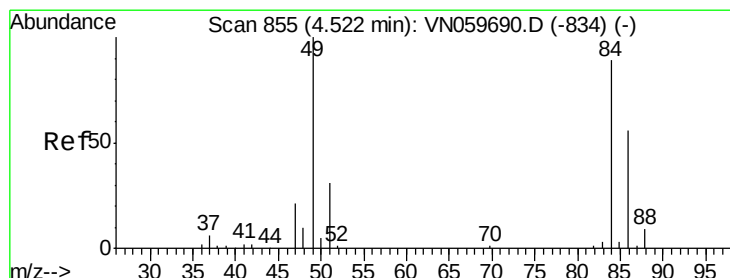
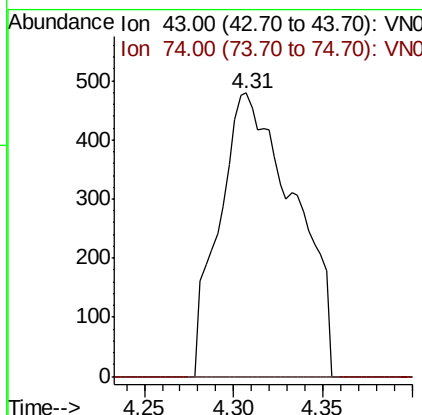
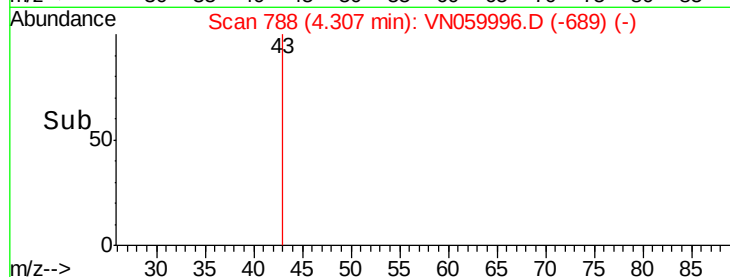
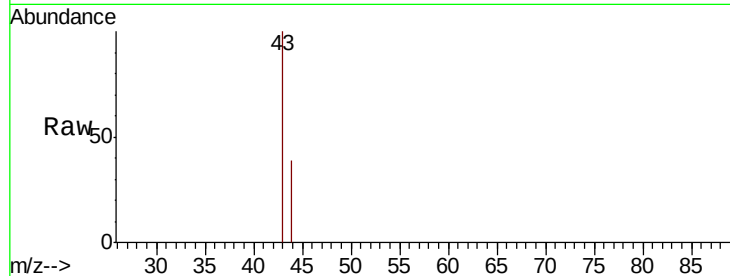




#18
Methyl Acetate
Concen: 0.540 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN059996.D
Acq: 4 Feb 2020 15:56

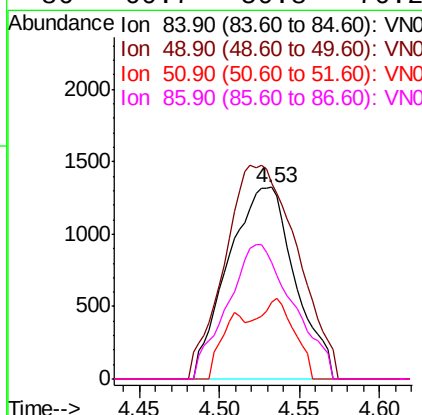
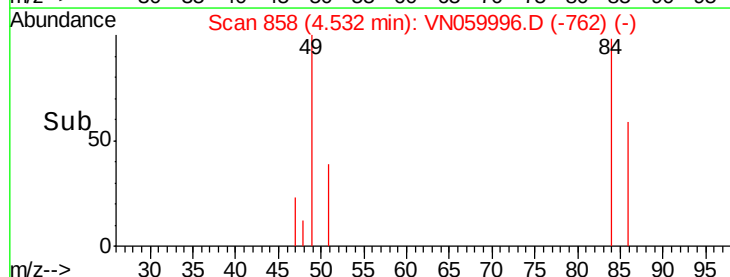
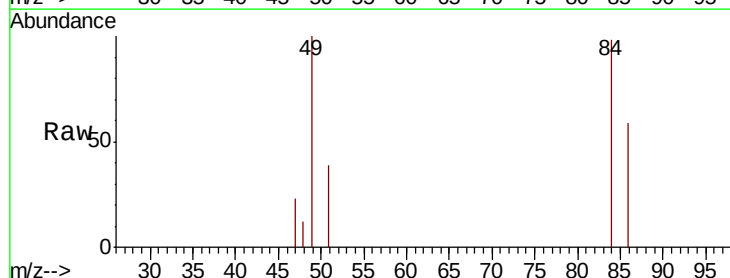
Instrument :
MSVOA_N
ClientSampled :
TP-A-1

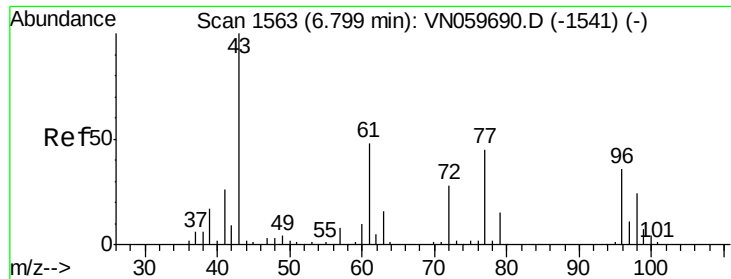
Tot Ion: 43 Resp: 1407
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#20
Methylene Chloride
Concen: 0.604 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN059996.D
Acq: 4 Feb 2020 15:56

Tgt Ion: 84 Resp: 3796
Ion Ratio Lower Upper
84 100
49 102.3 106.6 160.0#
51 40.3 31.9 47.9
86 60.7 50.8 76.2

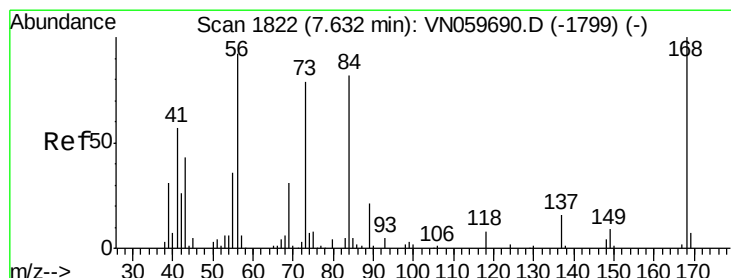
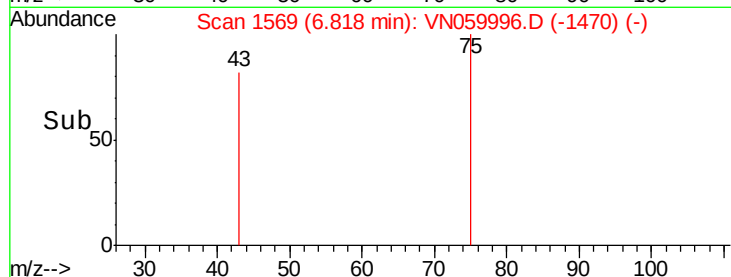
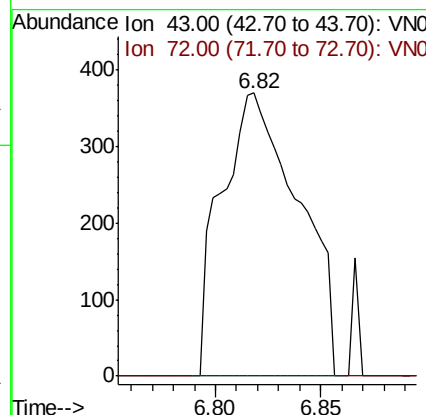
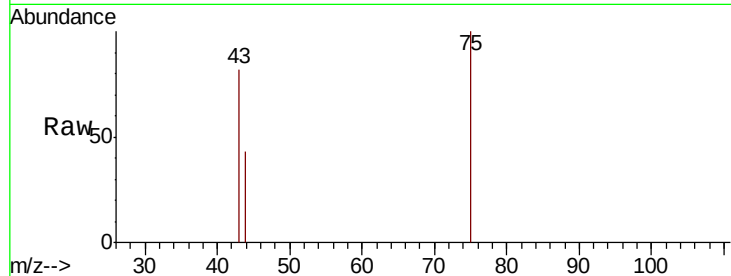




#25
2-Butanone
Concen: 0.751 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.02 min
Lab File: VN059996.D
Acq: 4 Feb 2020 15:56

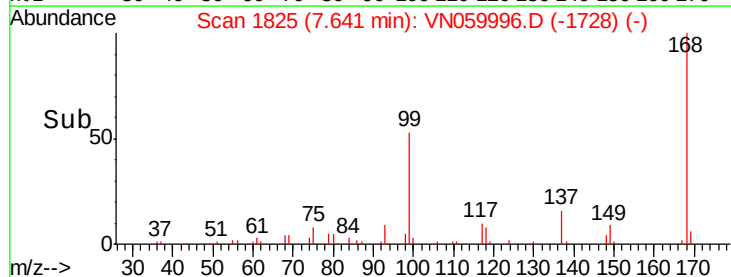
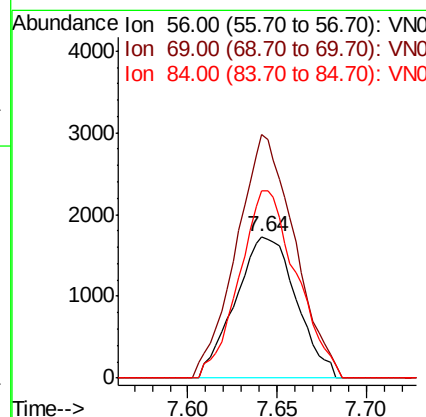
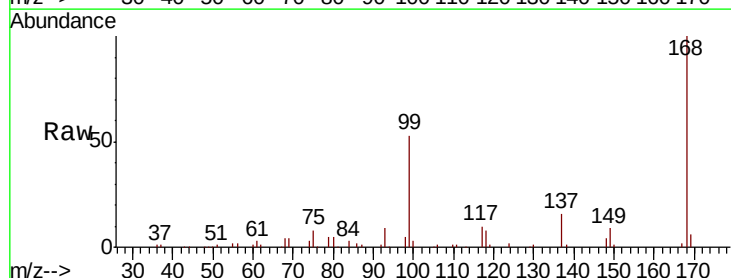
Instrument :
MSVOA_N
ClientSampled :
TP-A-1

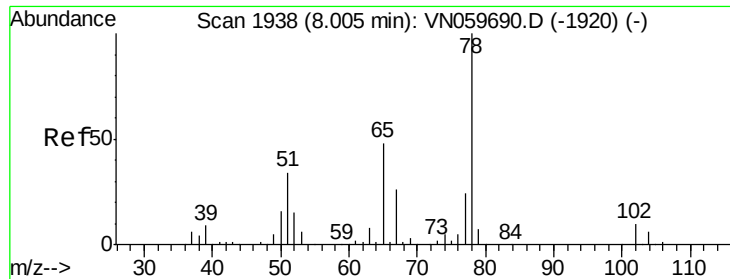
Tot Ion: 43 Resp: 948
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.242 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059996.D
Acq: 4 Feb 2020 15:56

Tgt Ion: 56 Resp: 4095
Ion Ratio Lower Upper
56 100
69 172.4 26.5 39.7#
84 132.4 65.3 97.9#

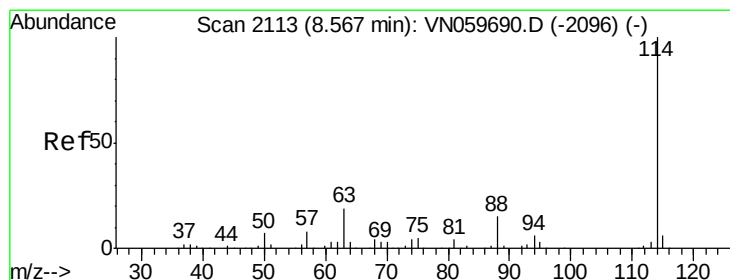
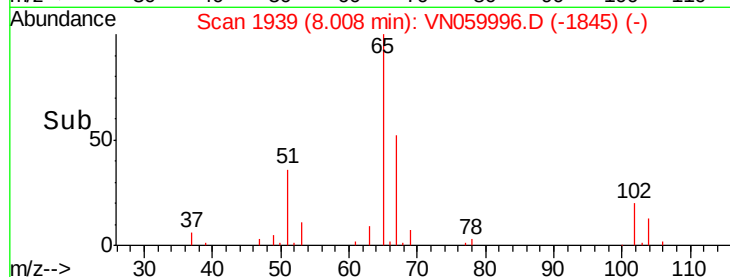
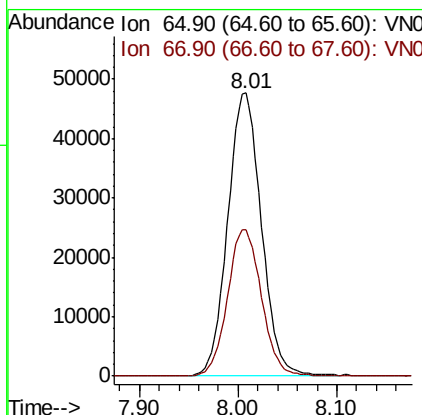
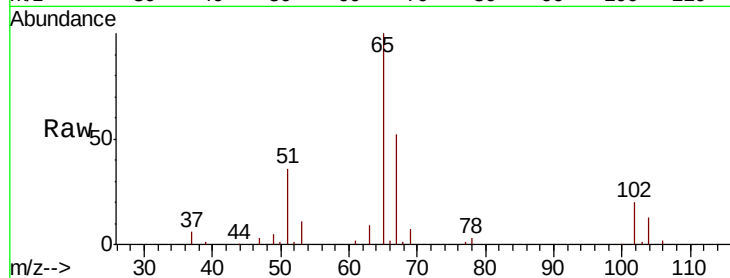




#33
 1,2-Dichloroethane-d4
 Concen: 50.928 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059996.D
 Acq: 4 Feb 2020 15:56

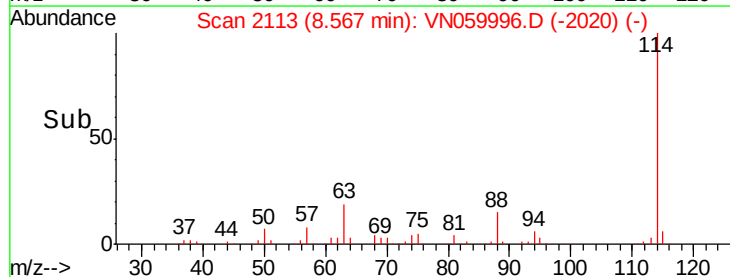
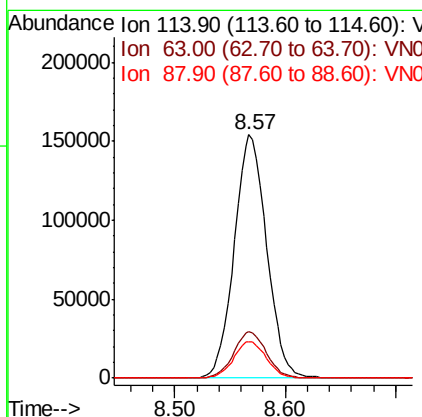
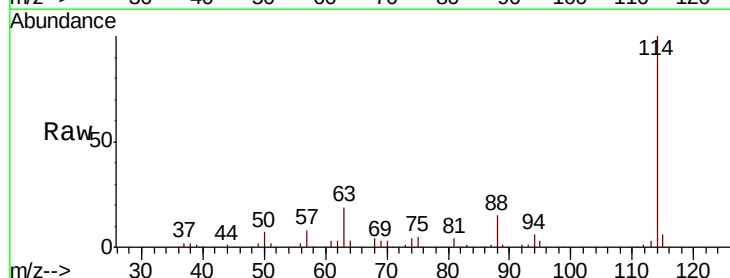
Instrument :
 MSVOA_N
 ClientSampled :
 TP-A-1

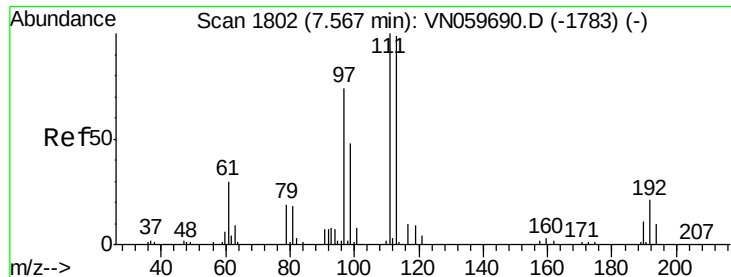
Tot Ion: 65 Resp: 113506
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059996.D
 Acq: 4 Feb 2020 15:56

Tgt Ion: 114 Resp: 314117
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 43.6
 88 15.1 0.0 31.4

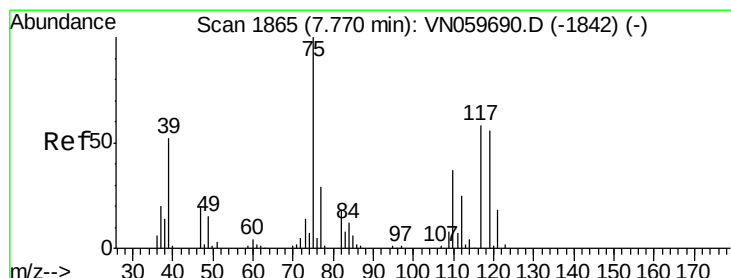
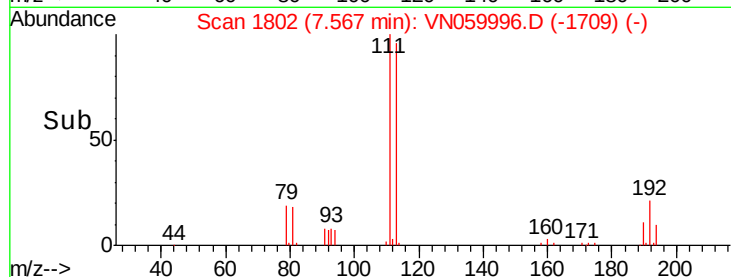
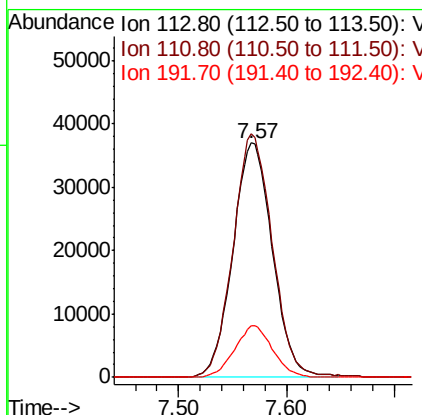
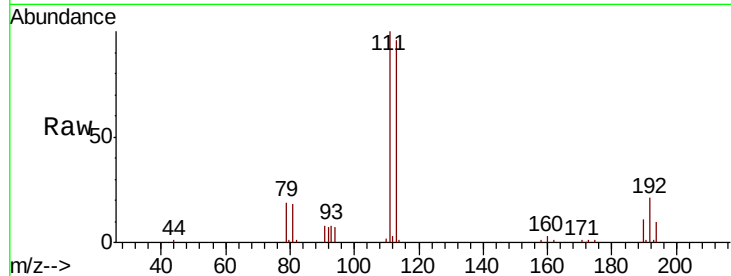




#35
 Dibromofluoromethane
 Concen: 50.525 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059996.D
 Acq: 4 Feb 2020 15:56

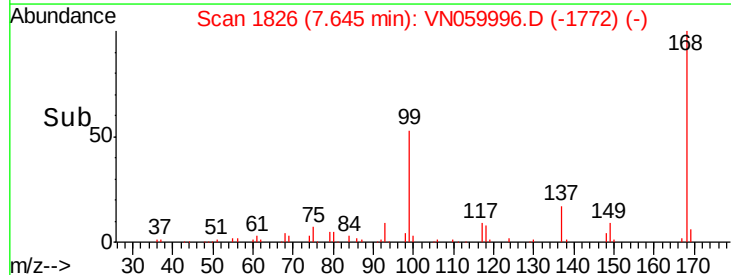
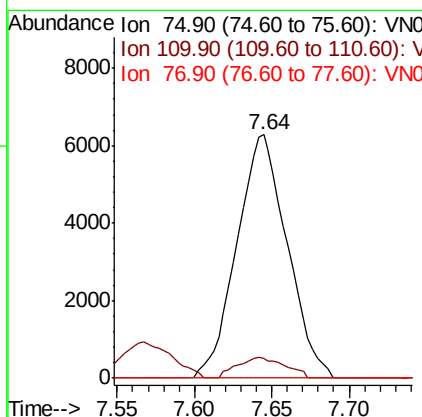
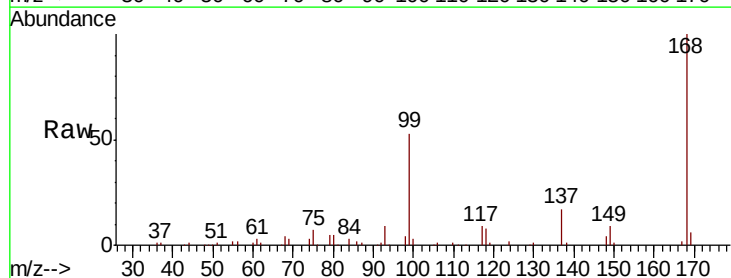
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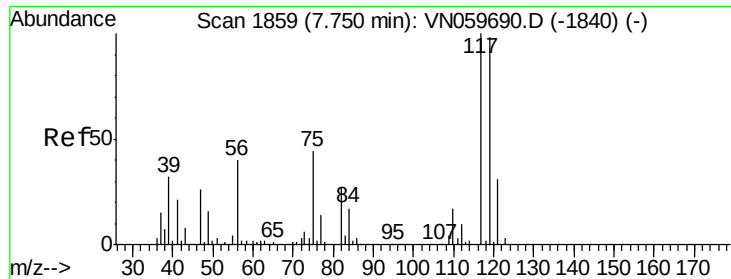
Tot Ion:113 Resp: 94644
 Ion Ratio Lower Upper
 113 100
 111 102.9 83.5 125.3
 192 21.0 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 5.188 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059996.D
 Acq: 4 Feb 2020 15:56

Tgt Ion: 75 Resp: 14191
 Ion Ratio Lower Upper
 75 100
 110 8.1 16.6 49.7#
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.344 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

Instrument :

MSVOA_N

ClientSampled :

TP-A-1

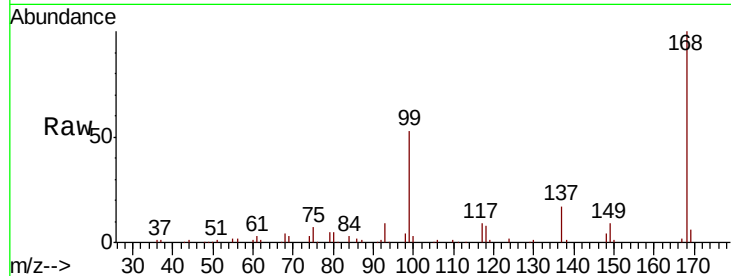
Tot Ion:117 Resp: 18878

Ion Ratio Lower Upper

117 100

119 5.8 76.5 114.7#

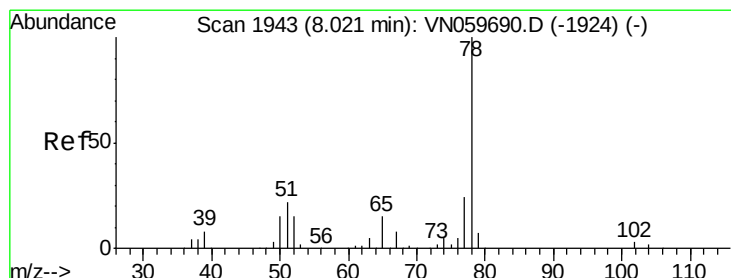
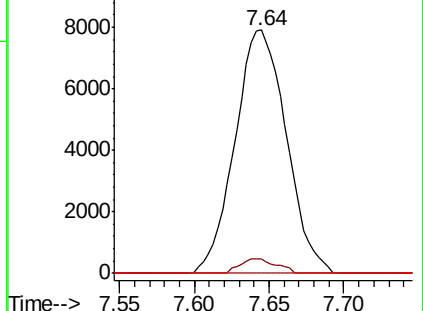
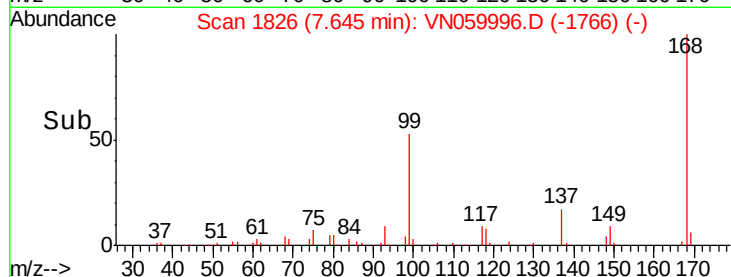
121 0.0 25.1 37.7#



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



#40

Benzene

Concen: 0.594 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN059996.D

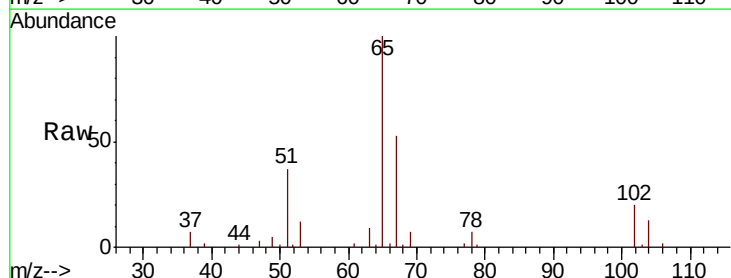
Acq: 4 Feb 2020 15:56

Tgt Ion: 78 Resp: 4848

Ion Ratio Lower Upper

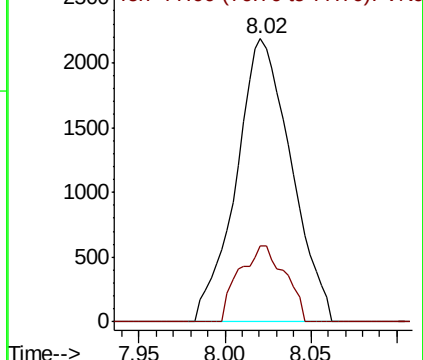
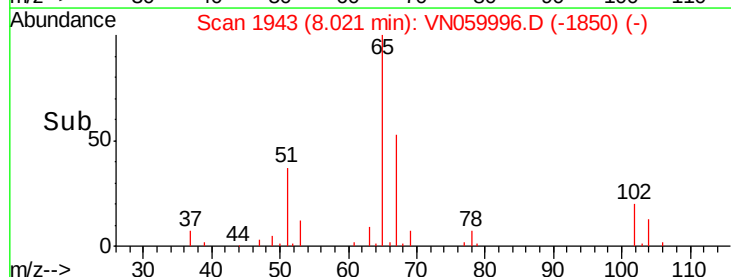
78 100

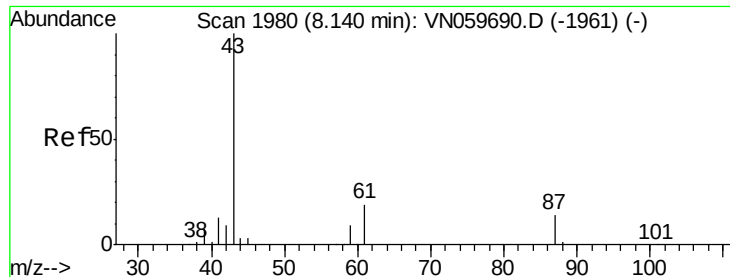
77 26.9 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#43

Isopropyl Acetate

Concen: 10.533 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

Instrument :

MSVOA_N

ClientSampled :

TP-A-1

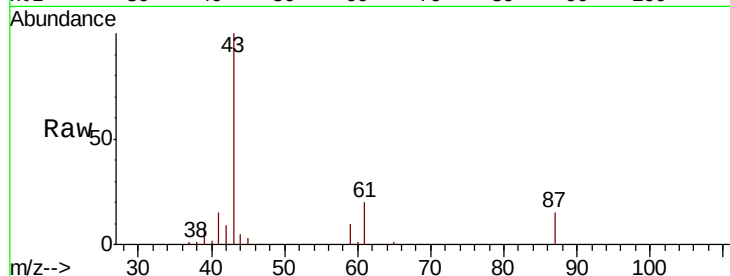
Tot Ion: 43 Resp: 46480

Ion Ratio Lower Upper

43 100

61 19.6 20.2 30.2#

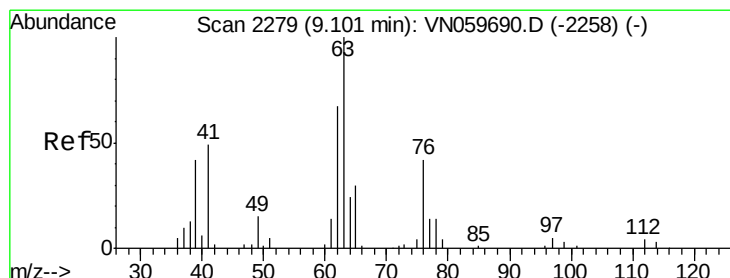
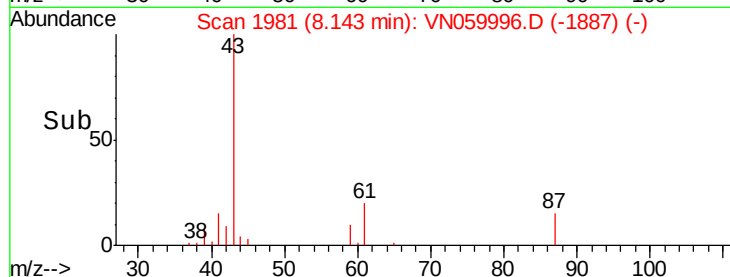
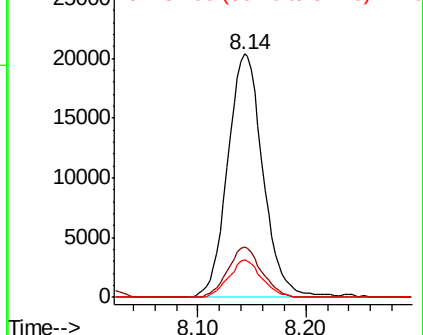
87 14.2 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.471 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059996.D

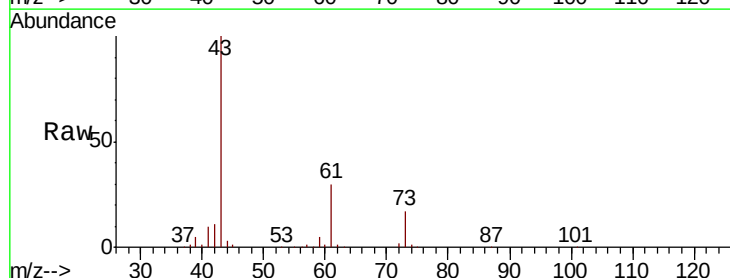
Acq: 4 Feb 2020 15:56

Tgt Ion: 63 Resp: 951

Ion Ratio Lower Upper

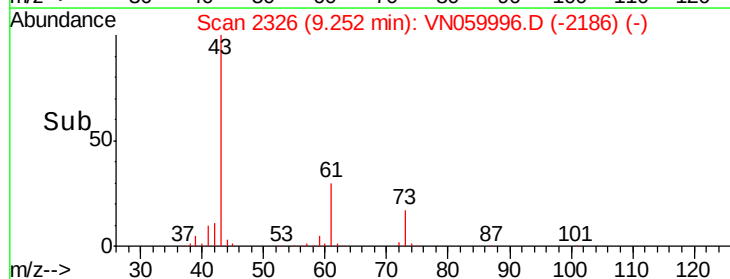
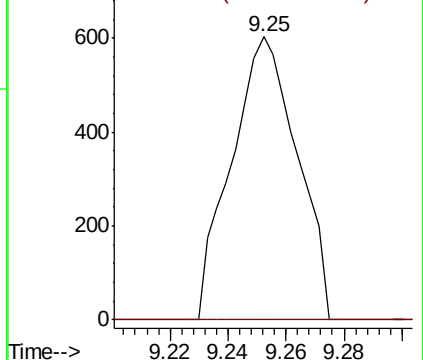
63 100

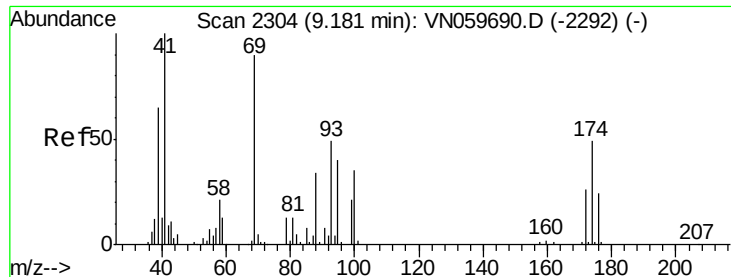
65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

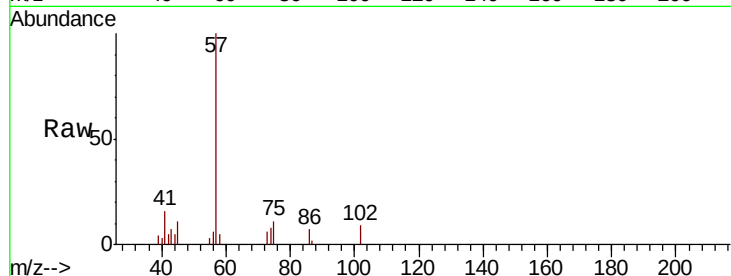




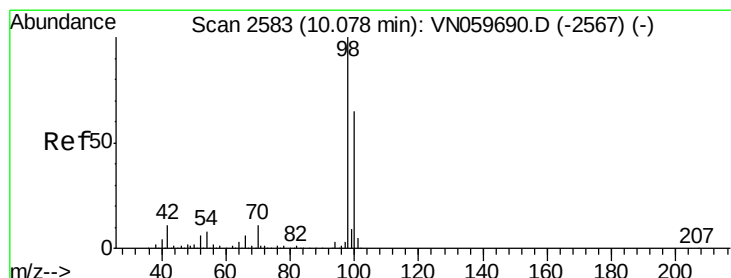
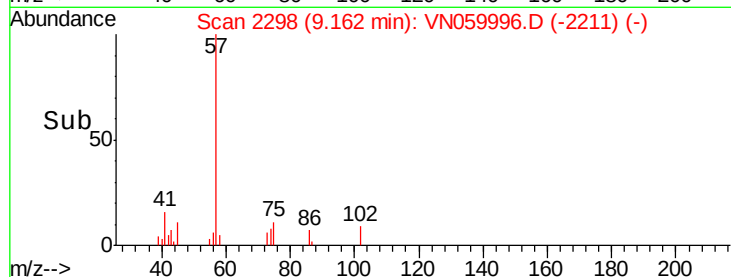
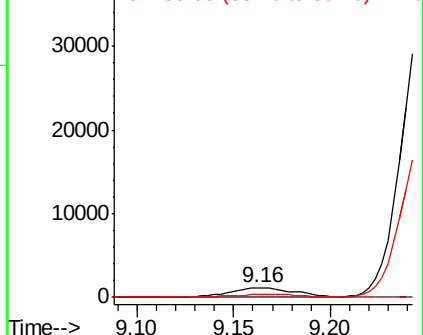
#48
Methvl methacrylate
Concen: 1.326 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059996.D
Acq: 4 Feb 2020 15:56

Instrument :
MSVOA_N
ClientSampleId :
TP-A-1

Tot Ion: 41 Resp: 2617
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#

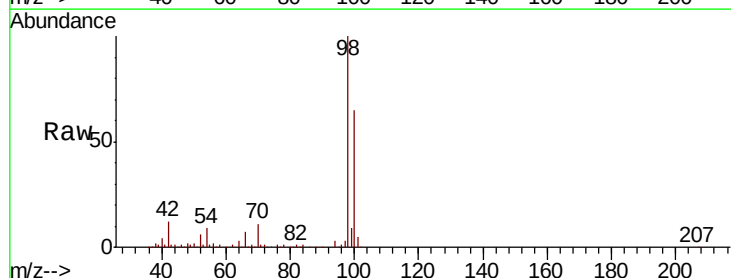


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

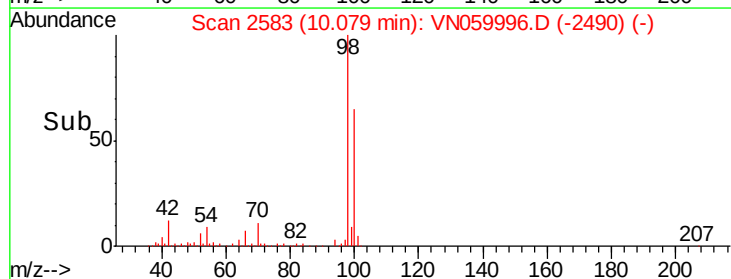
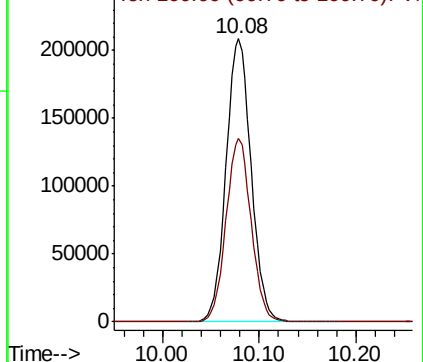


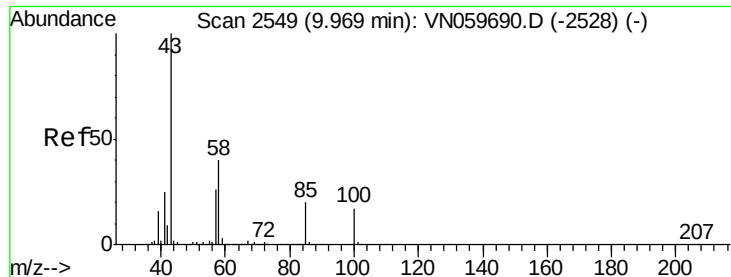
#50
Toluene-d8
Concen: 51.731 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059996.D
Acq: 4 Feb 2020 15:56

Tgt Ion: 98 Resp: 375455
Ion Ratio Lower Upper
98 100
100 64.9 51.2 76.8



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

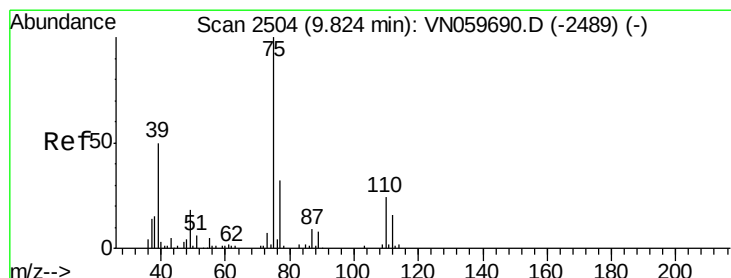
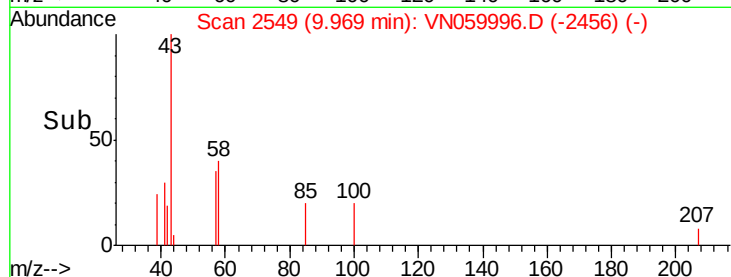
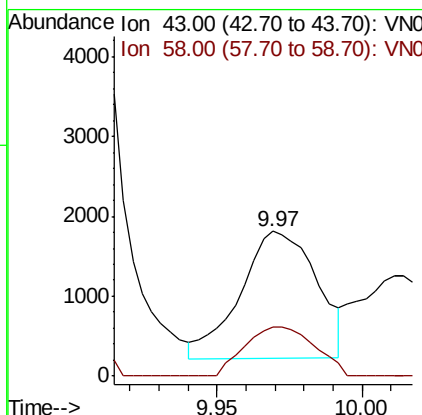
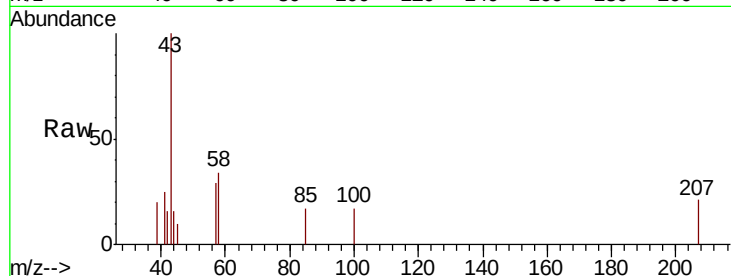




#51
 4-Methyl-2-Pentanone
 Concen: 1.138 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN059996.D
 Acq: 4 Feb 2020 15:56

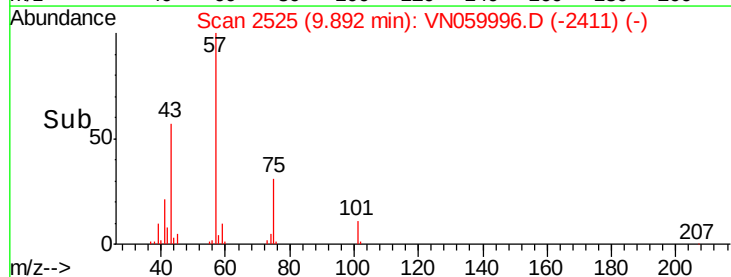
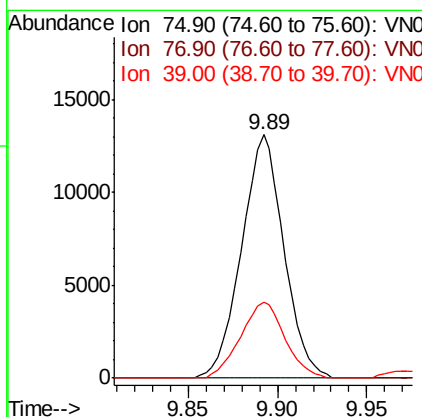
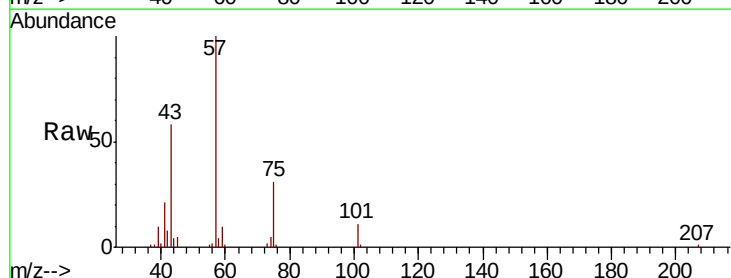
Instrument :
 MSVOA_N
 ClientSampled :
 TP-A-1

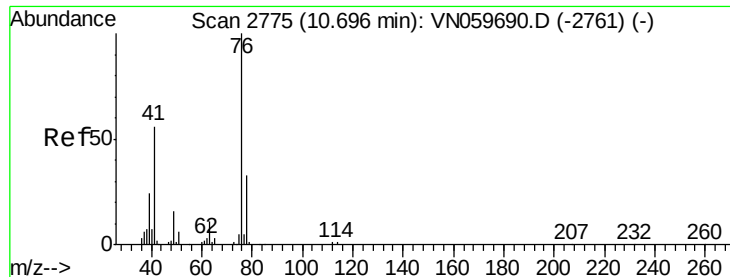
Tot Ion: 43 Resp: 2903
 Ion Ratio Lower Upper
 43 100
 58 35.8 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 6.441 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN059996.D
 Acq: 4 Feb 2020 15:56

Tgt Ion: 75 Resp: 21714
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 31.1 46.1 69.1#





#57

1,3-Dichloropropane

Concen: 1.058 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

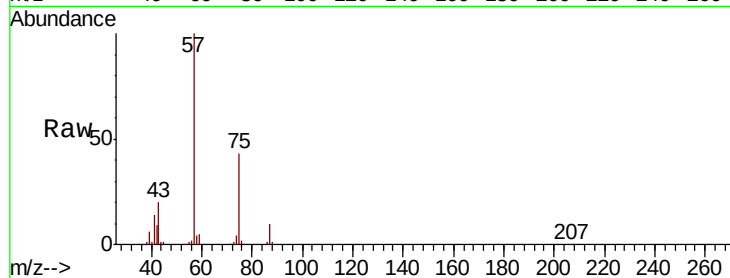
TP-A-1

Tot Ion: 76 Resp: 3429

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

2500

2000

1500

1000

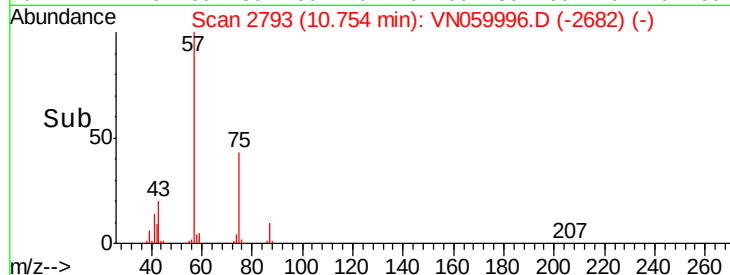
500

0

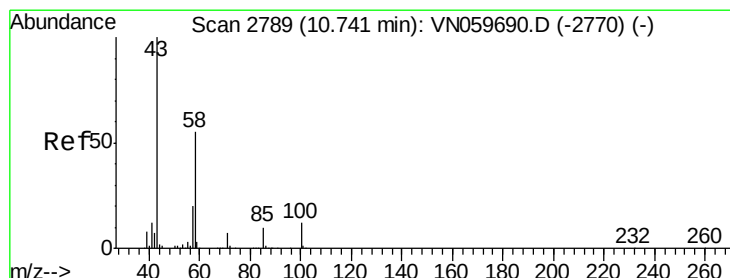
10.70

10.75

10.80



Time-->



#59

2-Hexanone

Concen: 24.153 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN059996.D

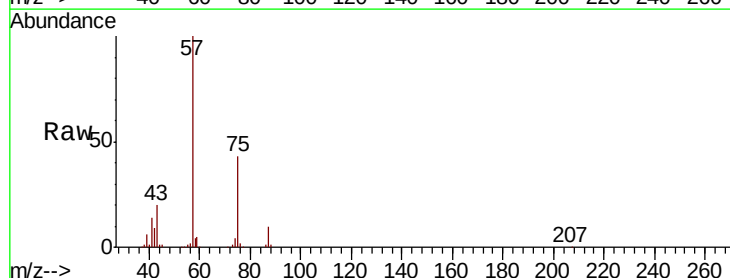
Acq: 4 Feb 2020 15:56

Tgt Ion: 43 Resp: 45391

Ion Ratio Lower Upper

43 100

58 19.2 25.8 77.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

30000

25000

20000

15000

10000

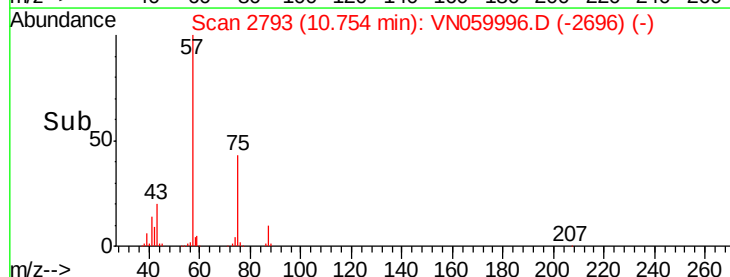
5000

0

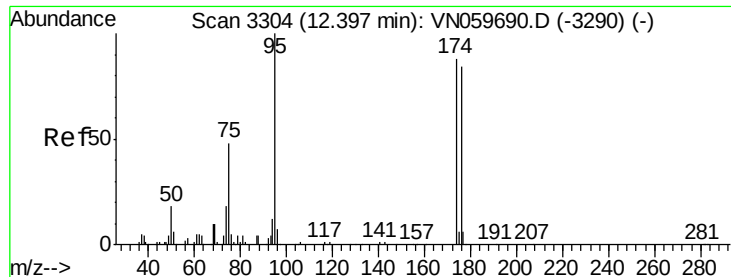
10.70

10.75

10.80



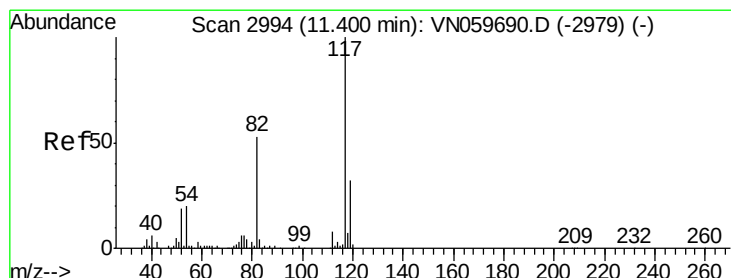
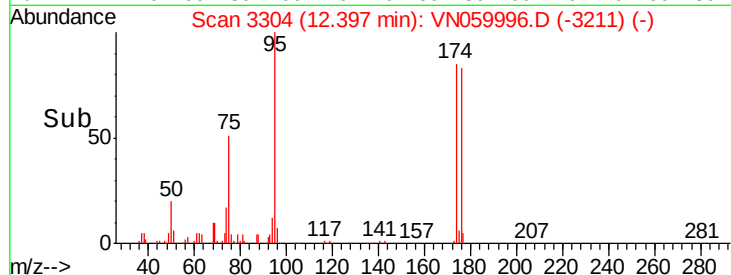
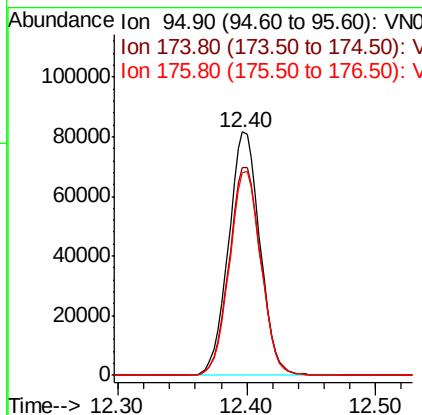
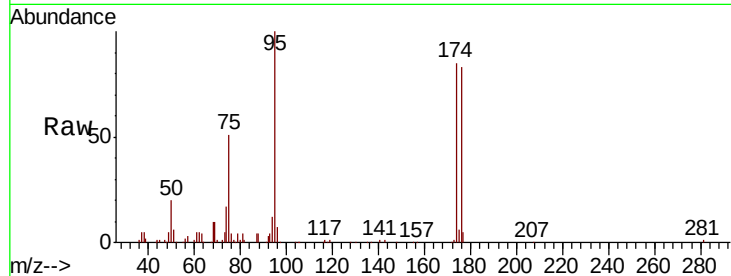
Time-->



#62
4-Bromofluorobenzene
Concen: 52.598 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN059996.D
Acq: 4 Feb 2020 15:56

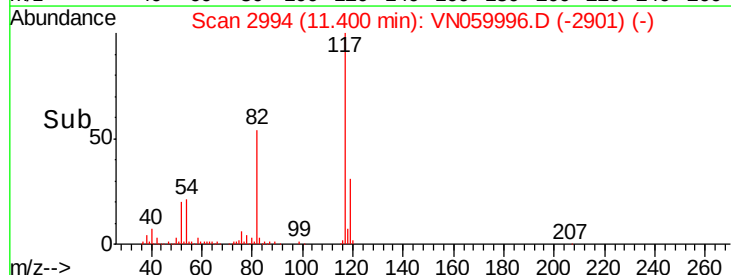
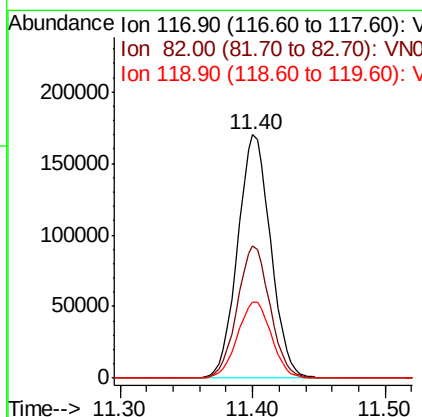
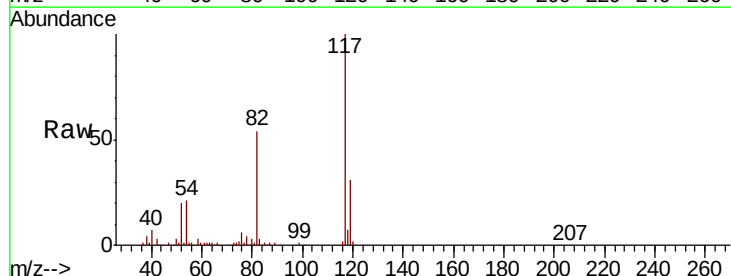
Instrument :
MSVOA_N
ClientSampled :
TP-A-1

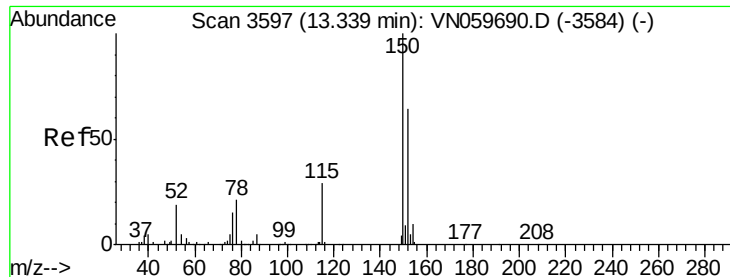
Tot Ion: 95 Resp: 137619
Ion Ratio Lower Upper
95 100
174 86.6 0.0 151.4
176 84.4 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN059996.D
Acq: 4 Feb 2020 15:56

Tgt Ion: 117 Resp: 293573
Ion Ratio Lower Upper
117 100
82 54.3 45.9 68.9
119 31.4 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

TP-A-1

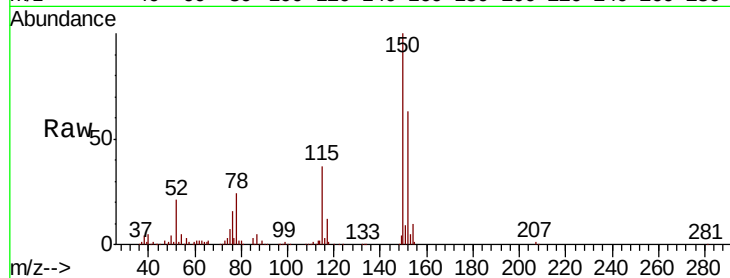
Tot Ion:152 Resp: 137594

Ion Ratio Lower Upper

152 100

115 58.5 30.3 90.9

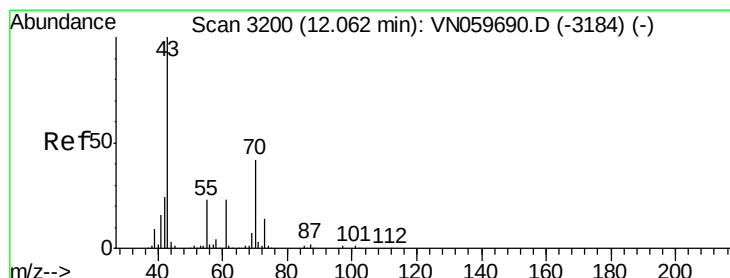
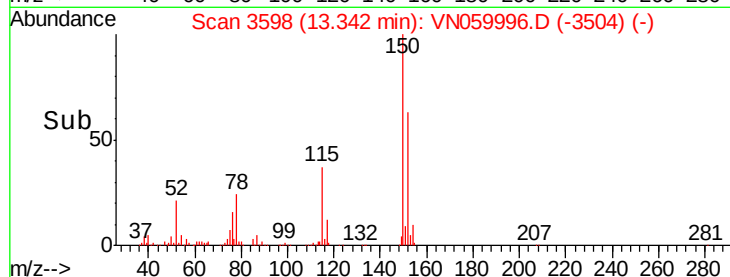
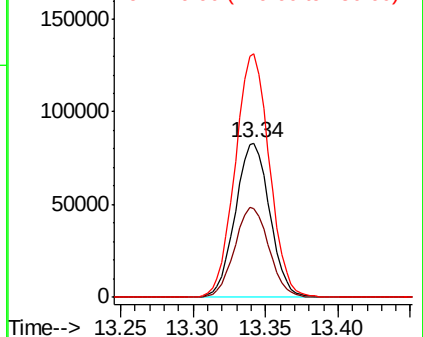
150 157.1 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.494 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

Tgt Ion: 43 Resp: 1933

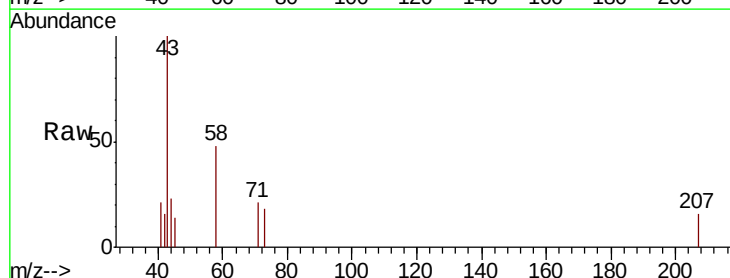
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

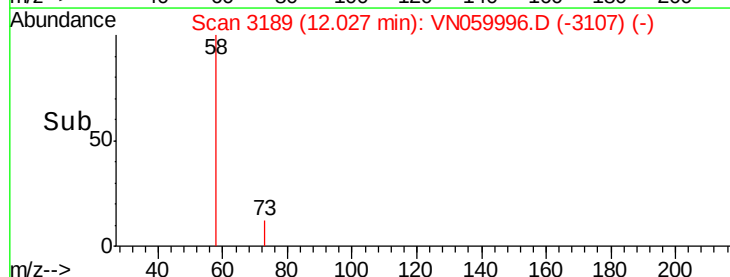
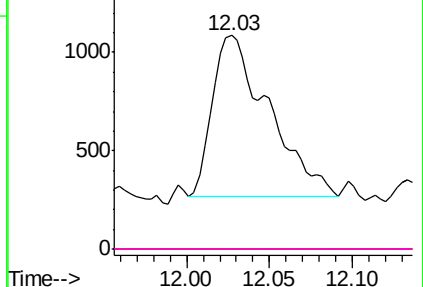


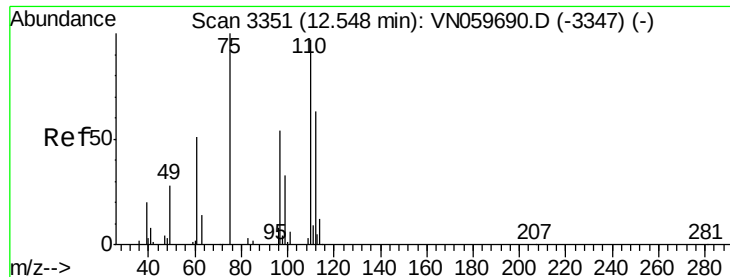
Abundance Ion 43.00 (42.70 to 43.70): VNO

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





#76

1,2,3-Trichloropropane

Concen: 30.605 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

Instrument :

MSVOA_N

ClientSampled :

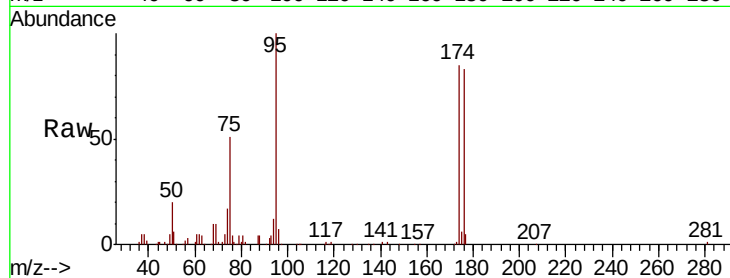
TP-A-1

Tot Ion: 75 Resp: 70867

Ion Ratio Lower Upper

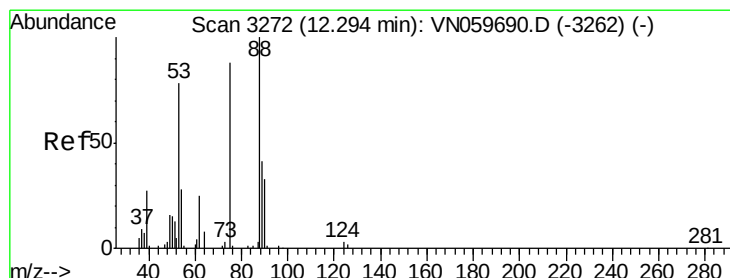
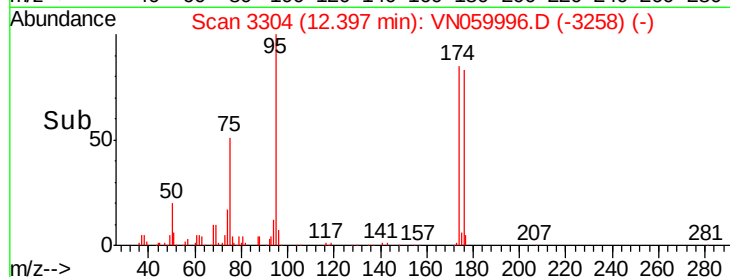
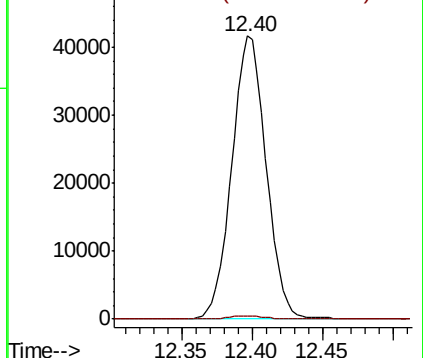
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 65.723 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

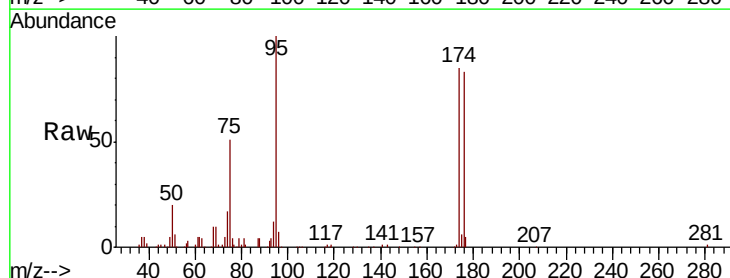
Tgt Ion: 75 Resp: 70867

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

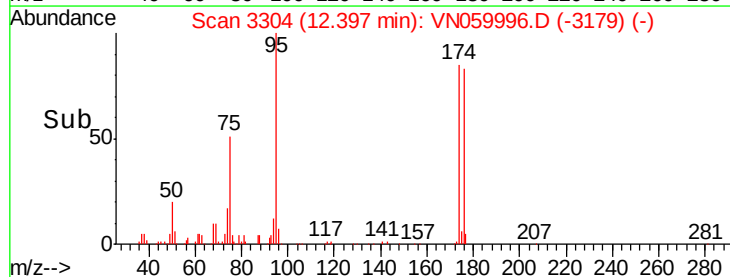
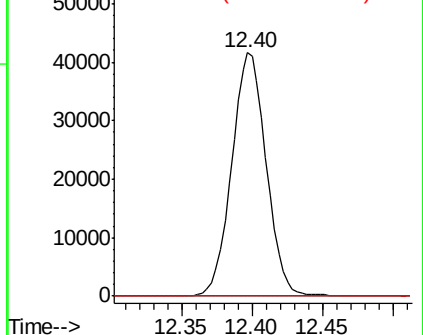
89 0.0 35.4 53.2#

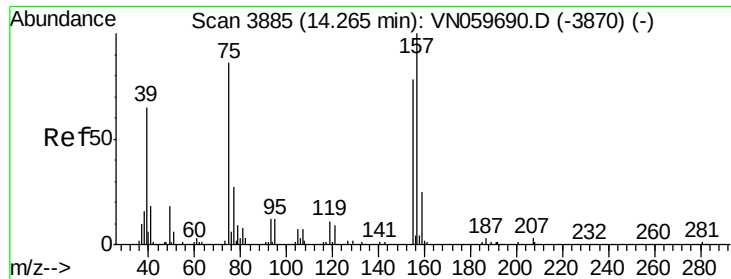


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

Instrument :

MSVOA_N

ClientSampled :

TP-A-1

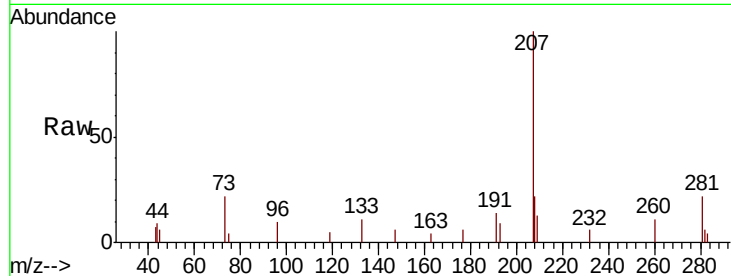
Tot Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

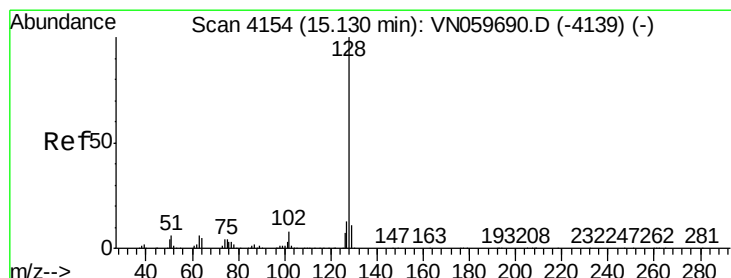
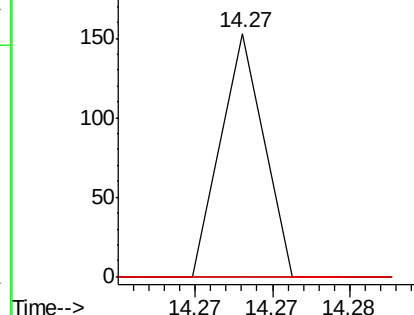
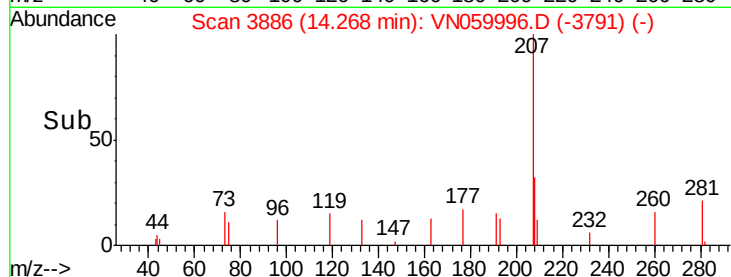
157 0.0 48.4 145.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059996.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN059996.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN059996.D (-3791) (-)



#95

Naphthalene

Concen: 0.720 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059996.D

Acq: 4 Feb 2020 15:56

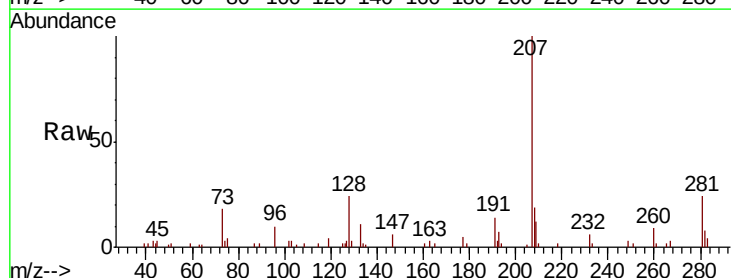
Tgt Ion: 128 Resp: 5399

Ion Ratio Lower Upper

128 100

127 9.6 10.4 15.6#

129 9.4 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VN059996.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN059996.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN059996.D (-4061) (-)

