

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032719\
 Data File : VN054726.D
 Acq On : 27 Mar 2019 17:02
 Operator : JC/SP
 Sample : K2097-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 28 04:37:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	547918	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	887011	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	746312	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	269581	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	363655	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	
35) Dibromofluoromethane	7.59	113	287407	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
50) Toluene-d8	10.09	98	1072800	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	12.40	95	321529	43.98	ug/l	0.00
Spiked Amount			Recovery	=	87.96%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	11130	5.432	ug/l #	83
18) Methyl Acetate	4.34	43	2898	0.635	ug/l #	51
20) Methylene Chloride	4.54	84	19013	3.148	ug/l #	87
25) 2-Butanone	6.86	43	1386	0.528	ug/l	92
29) Tetrahydrofuran	7.24	42	1213	0.712	ug/l #	45
31) Cyclohexane	7.67	56	11718	Below Cal	#	22
36) 1,1-Dichloropropene	7.67	75	41104	4.956	ug/l #	48
38) Carbon Tetrachloride	7.67	117	51902	6.440	ug/l #	15
43) Isopropyl Acetate	8.17	43	15235	1.529	ug/l #	91
48) Methyl methacrylate	9.18	41	8143	1.506	ug/l #	11
51) 4-Methyl-2-Pentanone	10.03	43	7754	1.404	ug/l #	36
53) t-1,3-Dichloropropene	10.48	75	31	2.236	ug/l #	51
54) cis-1,3-Dichloropropene	9.90	75	50951	5.636	ug/l #	72
57) 1,3-Dichloropropane	10.76	76	8857	0.972	ug/l #	43
59) 2-Hexanone	10.77	43	147205	40.819	ug/l #	48
71) Bromoform	12.38	173	81	2.241	ug/l #	28
74) N-amyl acetate	11.88	43	10945	1.752	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	169001	39.506	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169001	130.724	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

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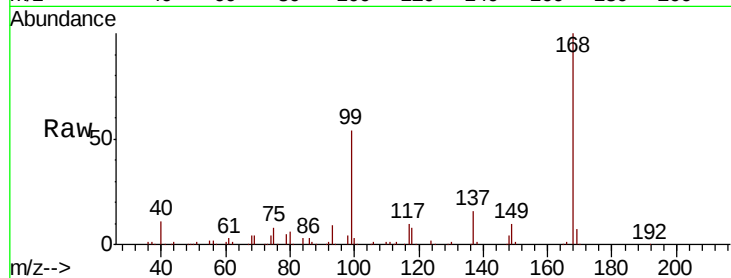
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 547918

Ion Ratio Lower Upper

168 100

99 54.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

100000

50000

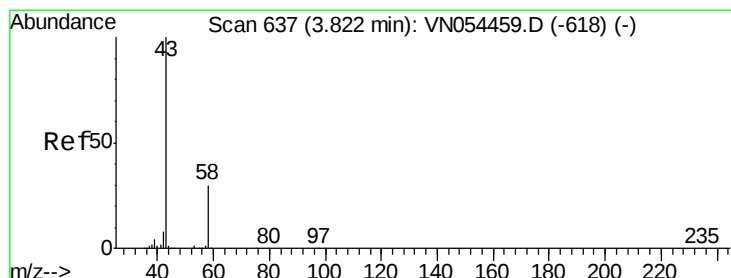
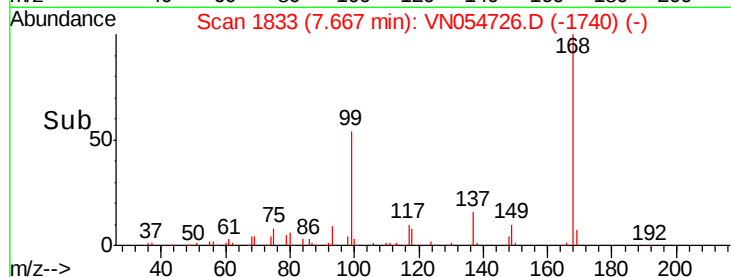
0

Time-->

7.60

7.70

7.80



#16

Acetone

Concen: 5.432 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN054726.D

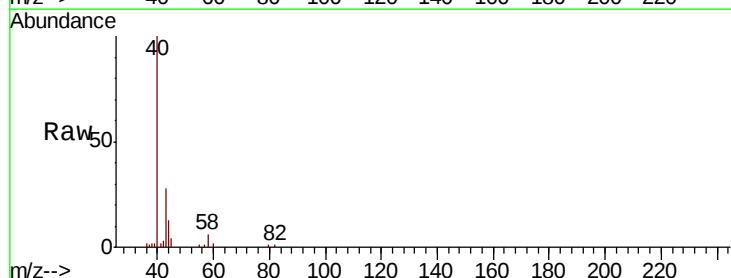
Acq: 27 Mar 2019 17:02

Tgt Ion: 43 Resp: 11130

Ion Ratio Lower Upper

43 100

58 26.9 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

6000

5000

4000

3000

2000

1000

0

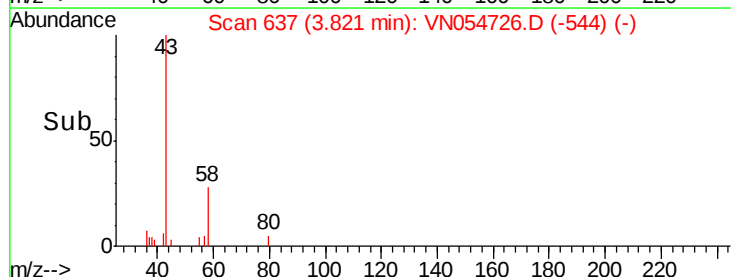
Time-->

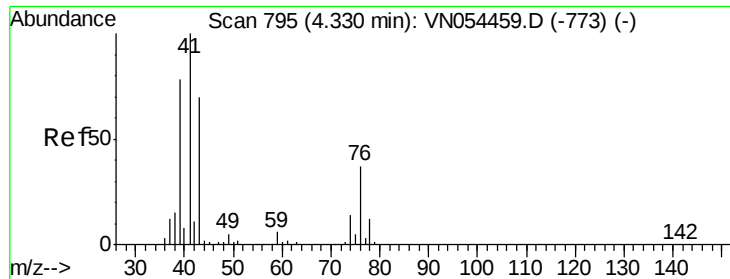
3.75

3.80

3.85

3.90

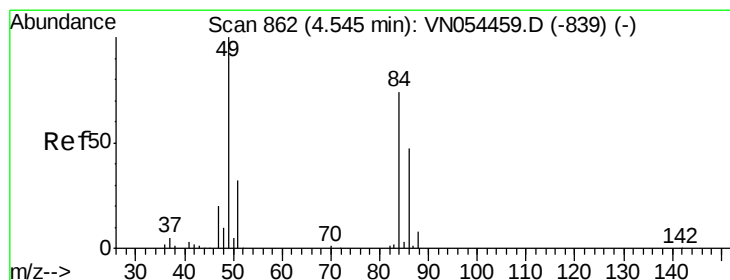
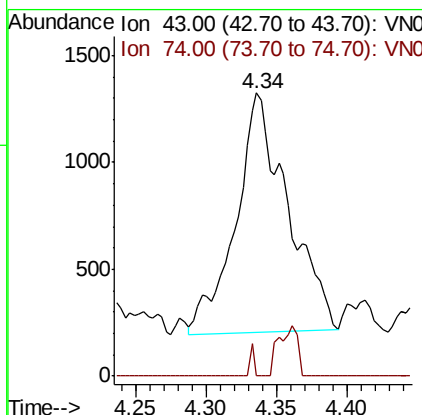
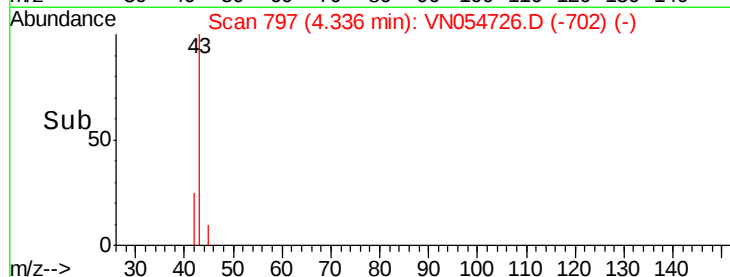
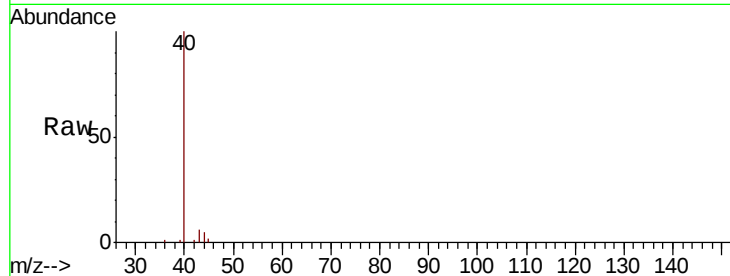




#18
Methyl Acetate
Concen: 0.635 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054726.D
Acq: 27 Mar 2019 17:02

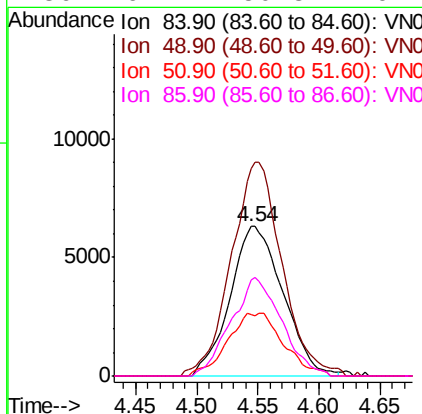
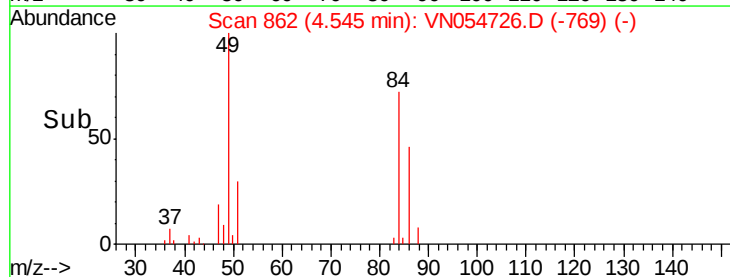
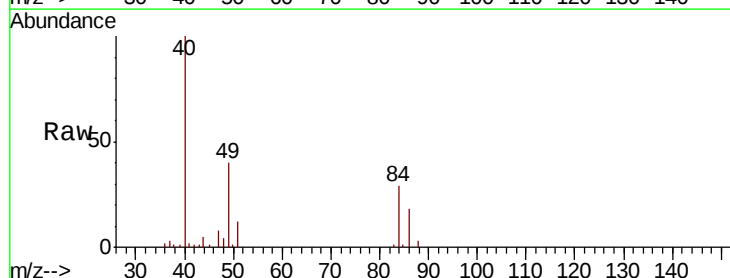
Instrument :
MSVOA_N
ClientSampled :

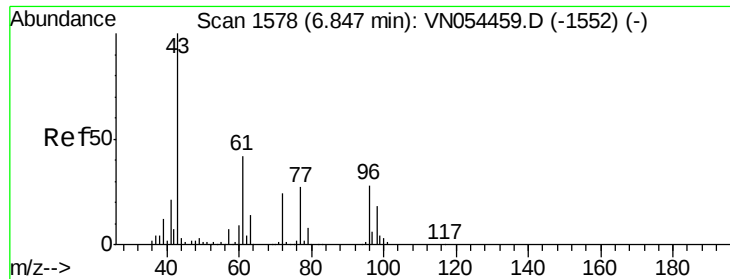
Tot Ion: 43 Resp: 2898
Ion Ratio Lower Upper
43 100
74 1.0 20.8 31.2#



#20
Methylene Chloride
Concen: 3.148 ug/l
RT: 4.54 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054726.D
Acq: 27 Mar 2019 17:02

Tgt Ion: 84 Resp: 19013
Ion Ratio Lower Upper
84 100
49 135.0 89.7 134.5#
51 41.3 28.2 42.4
86 64.4 50.8 76.2

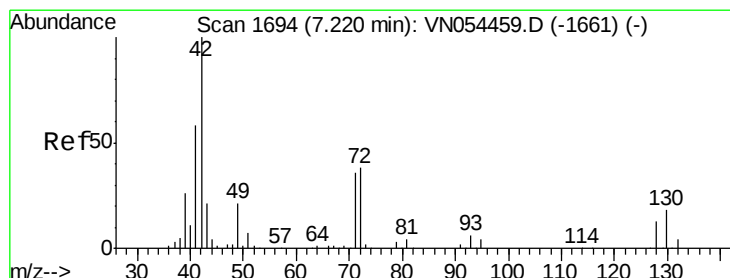
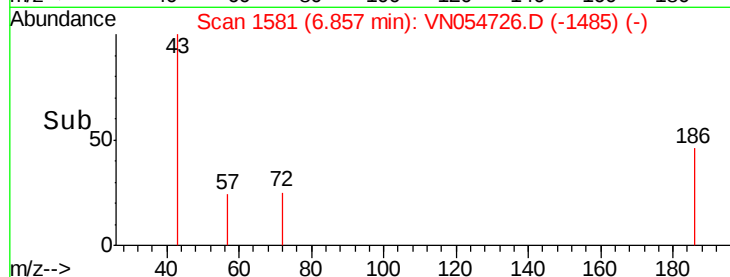
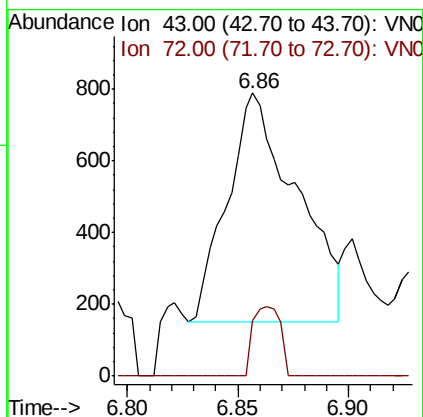
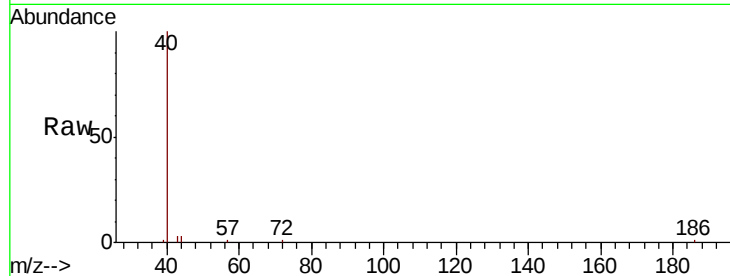




#25
2-Butanone
Concen: 0.528 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VN054726.D
Acq: 27 Mar 2019 17:02

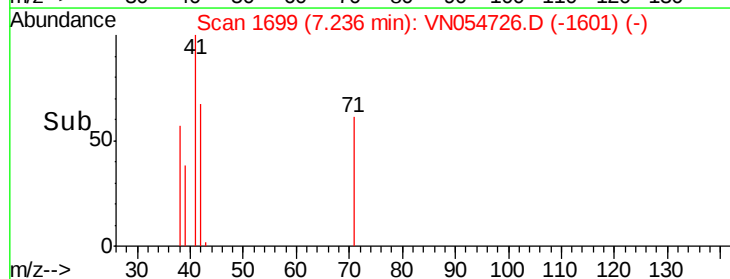
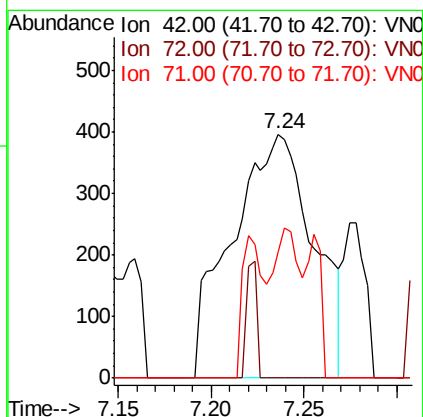
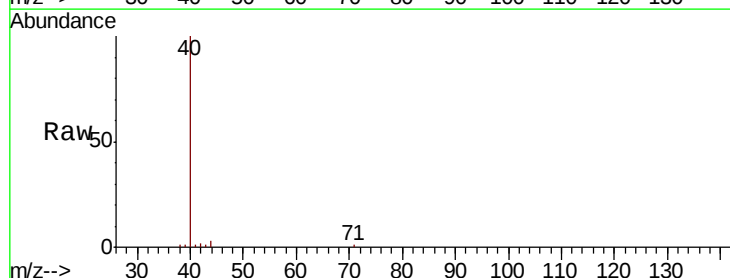
Instrument :
MSVOA_N
ClientSampleId :

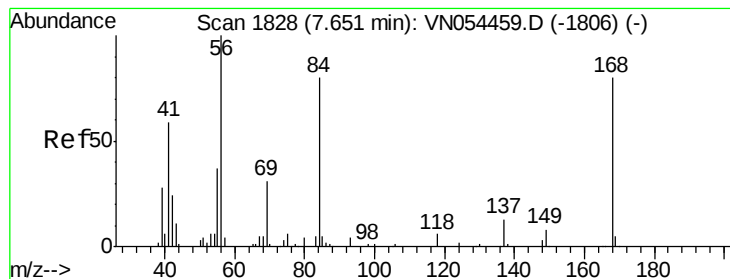
Tot Ion: 43 Resp: 1386
Ion Ratio Lower Upper
43 100
72 24.5 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.712 ug/l
RT: 7.24 min Scan# 1699
Delta R.T. 0.02 min
Lab File: VN054726.D
Acq: 27 Mar 2019 17:02

Tgt Ion: 42 Resp: 1213
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 19.3 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

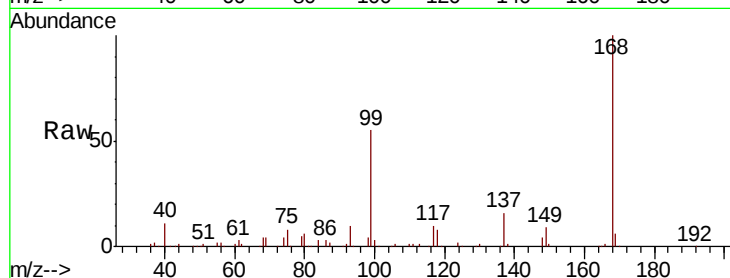
Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11718

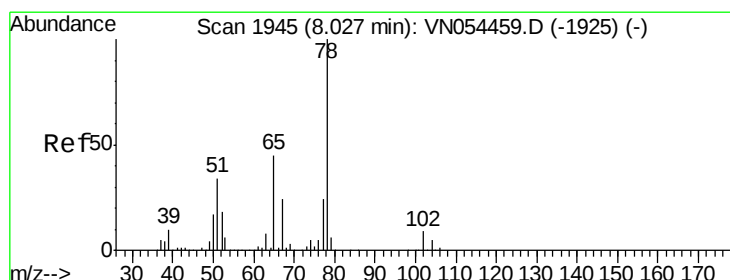
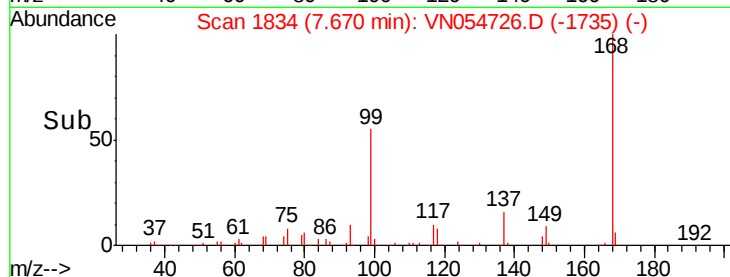
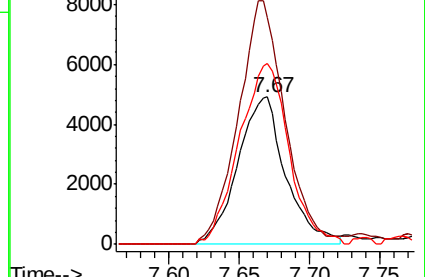
Ion	Ratio	Lower	Upper
56	100		
69	153.7	27.8	41.6#
84	122.4	74.6	111.8#



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: 53.359 ug/l

RT: 8.03 min Scan# 1946

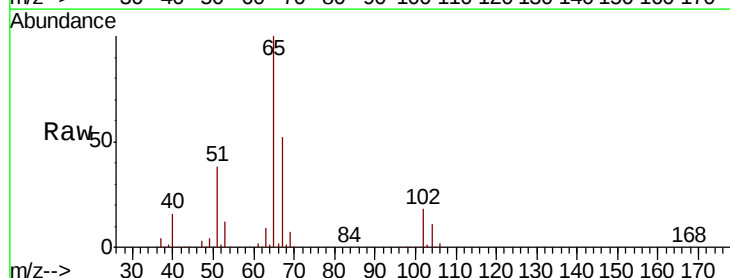
Delta R.T. 0.00 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

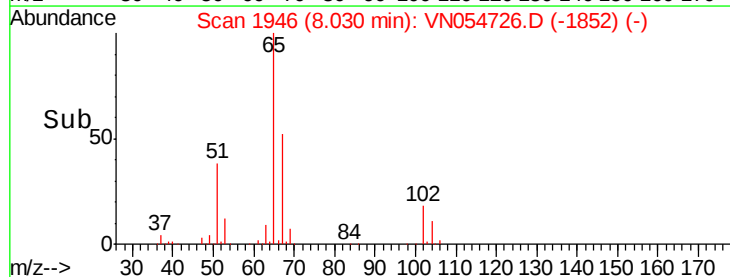
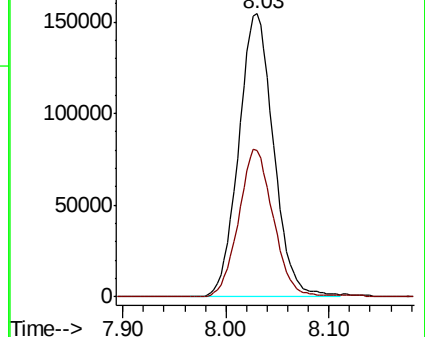
Tgt Ion: 65 Resp: 363655

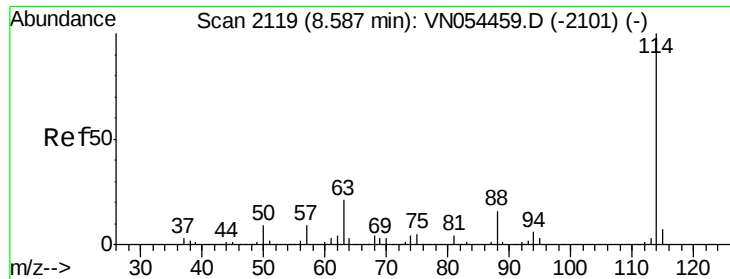
Ion	Ratio	Lower	Upper
65	100		
67	51.7	0.0	104.6



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: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

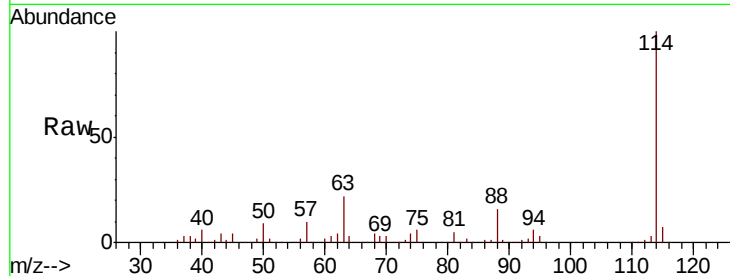
Tot Ion:114 Resp: 887011

Ion Ratio Lower Upper

114 100

63 22.1 0.0 35.2

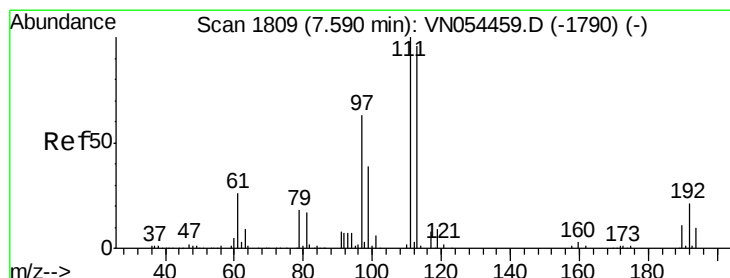
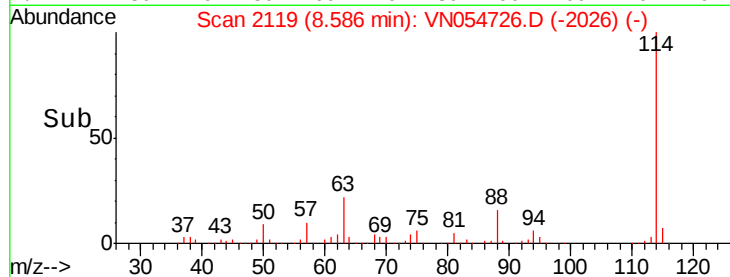
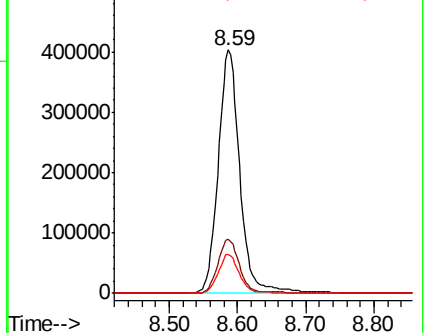
88 16.2 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.294 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

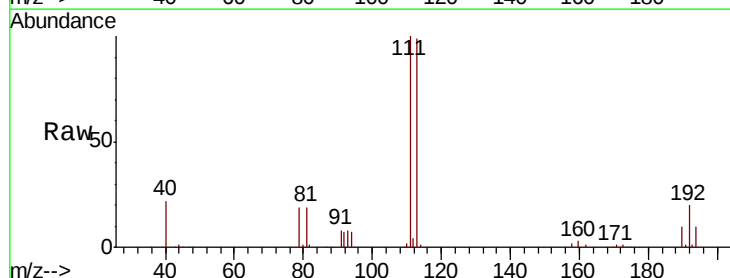
Tgt Ion:113 Resp: 287407

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

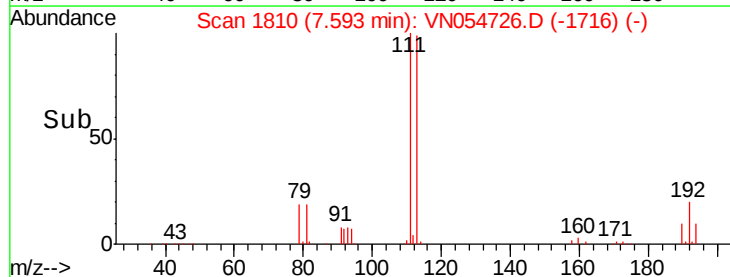
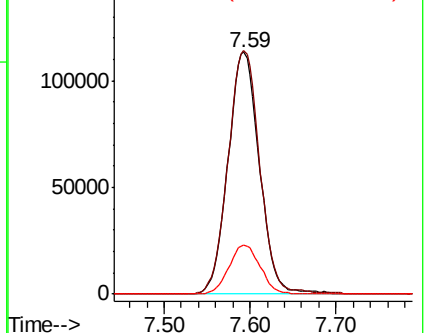
192 20.4 19.2 28.8

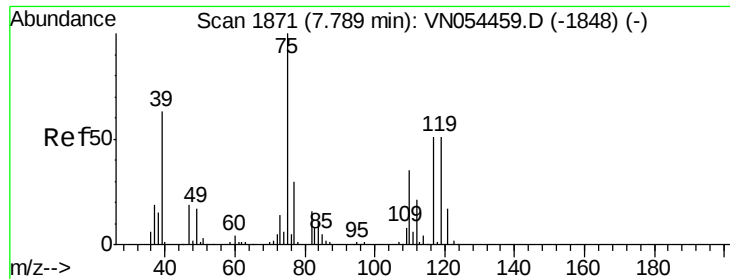


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

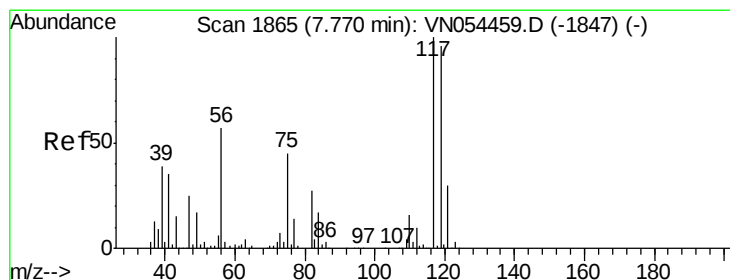
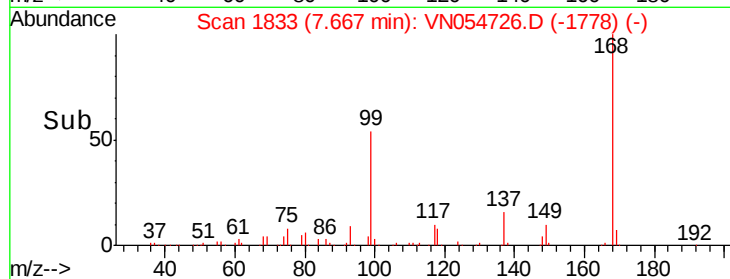
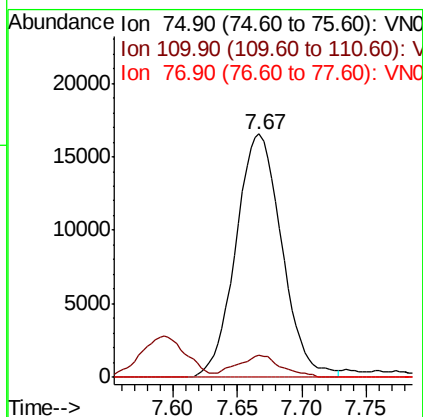
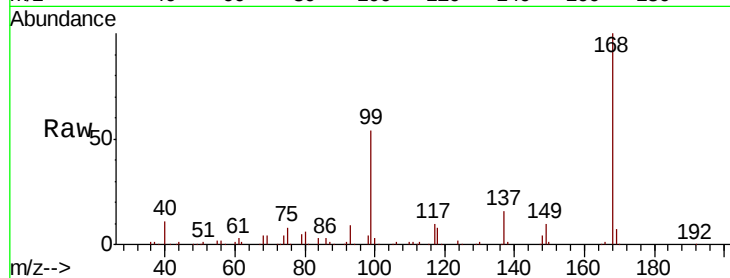




#36
 1,1-Dichloropropene
 Concen: 4.956 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054726.D
 Acq: 27 Mar 2019 17:02

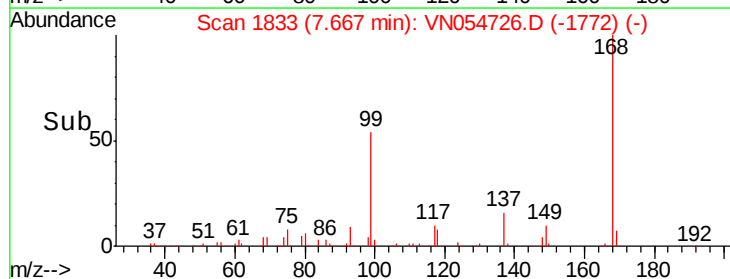
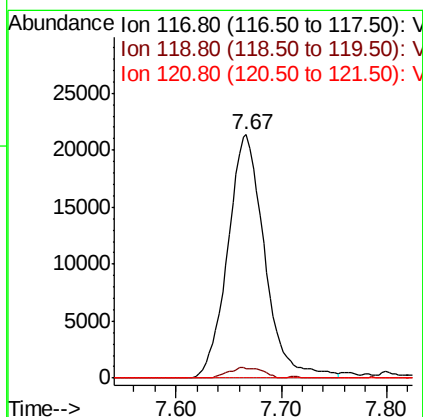
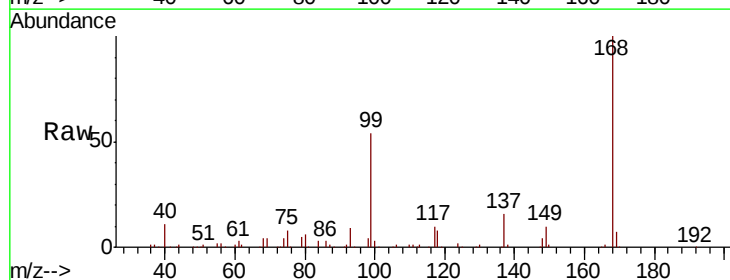
Instrument :
 MSVOA_N
 ClientSampleId :

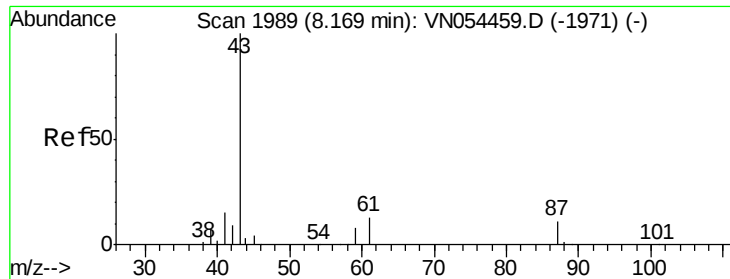
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.8	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.440 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN054726.D
 Acq: 27 Mar 2019 17:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.9	76.3	114.5#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 1.529 ug/l

RT: 8.17 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

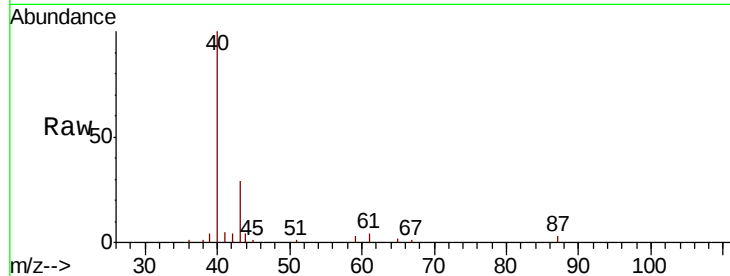
Tot Ion: 43 Resp: 15235

Ion Ratio Lower Upper

43 100

61 16.4 15.8 23.8

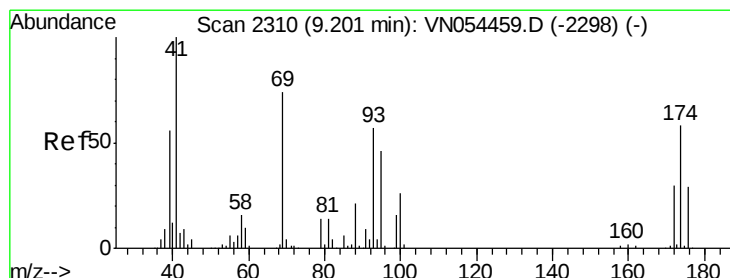
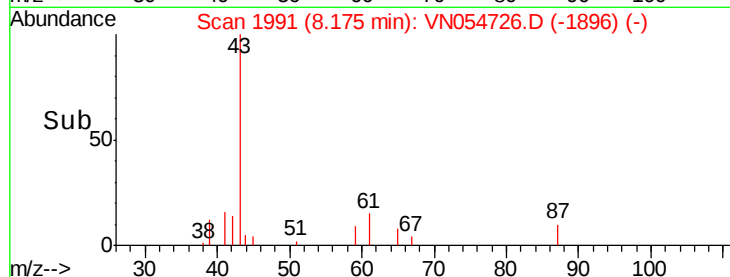
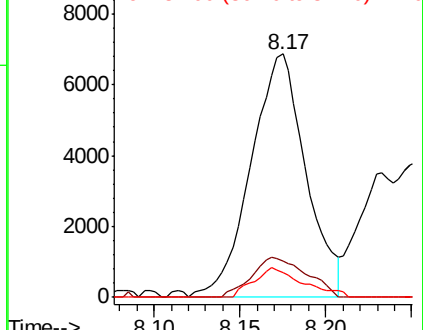
87 10.8 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.506 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

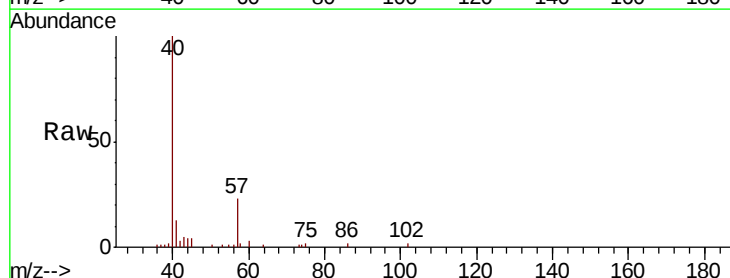
Tgt Ion: 41 Resp: 8143

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

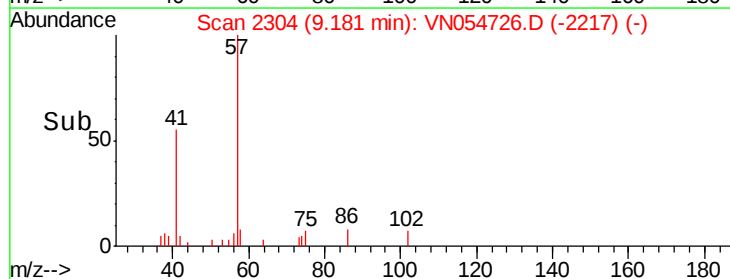
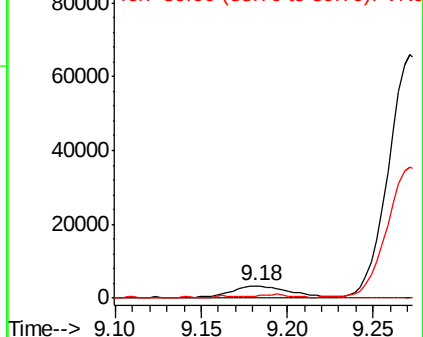
39 0.0 47.5 71.3#

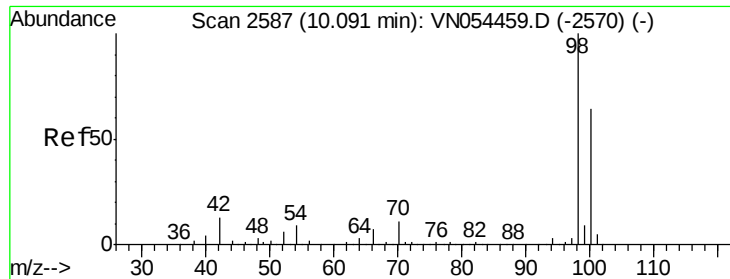


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 49.937 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_N

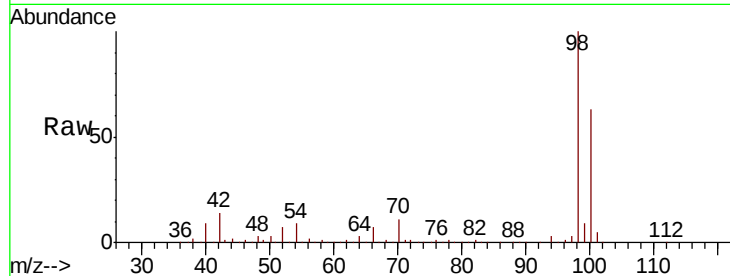
ClientSampled :

Tot Ion: 98 Resp: 1072800

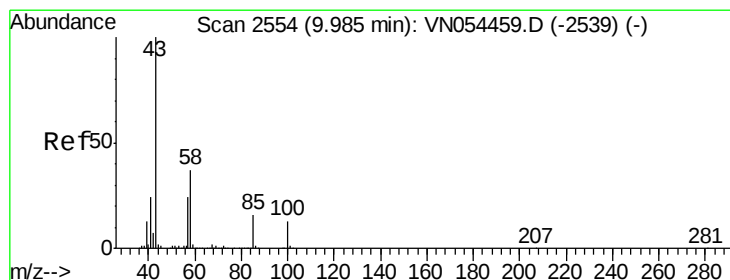
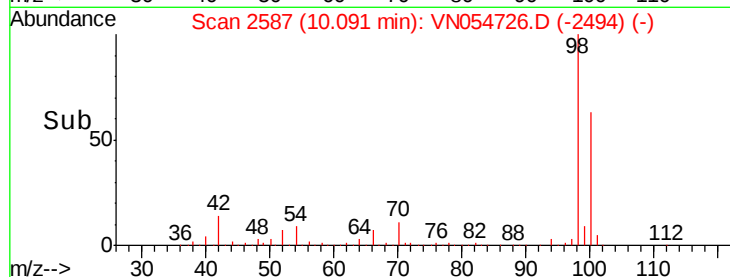
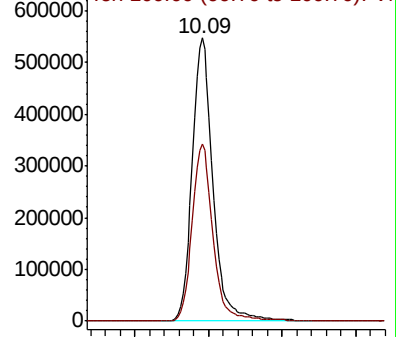
Ion Ratio Lower Upper

98 100

100 62.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054459.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.404 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054726.D

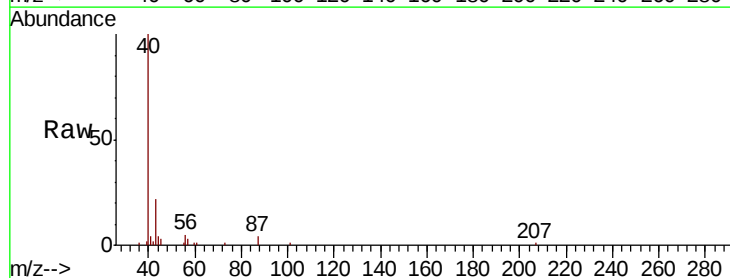
Acq: 27 Mar 2019 17:02

Tgt Ion: 43 Resp: 7754

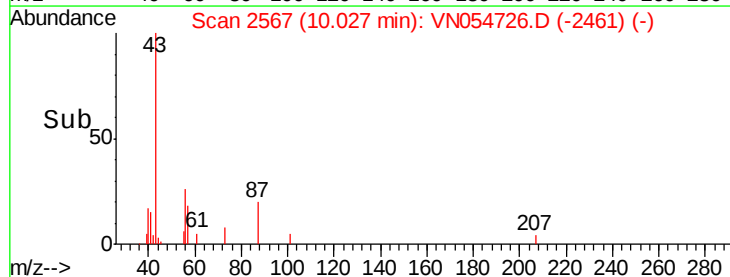
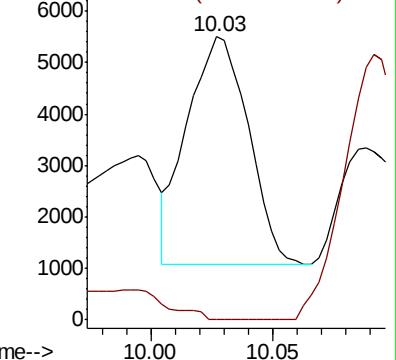
Ion Ratio Lower Upper

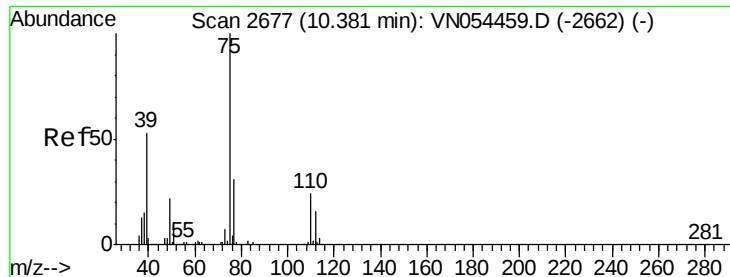
43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054459.D (-2539) (-)





#53

t-1,3-Dichloropropene

Concen: 2.236 ug/l

RT: 10.48 min Scan# 2708

Delta R.T. 0.10 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_N

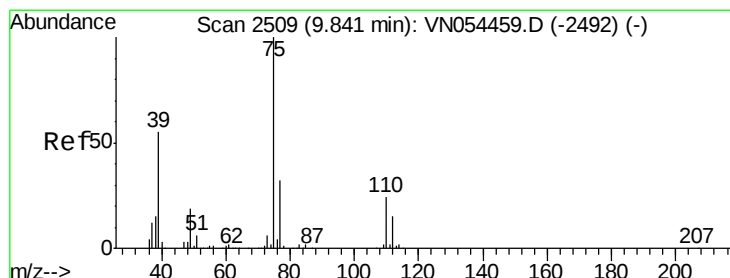
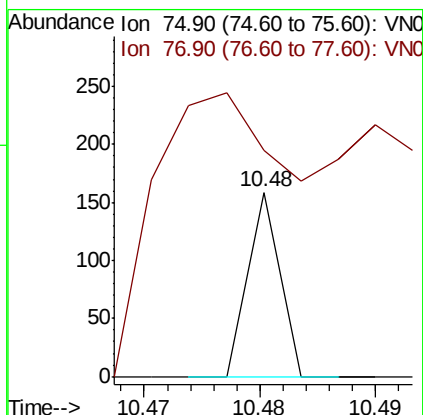
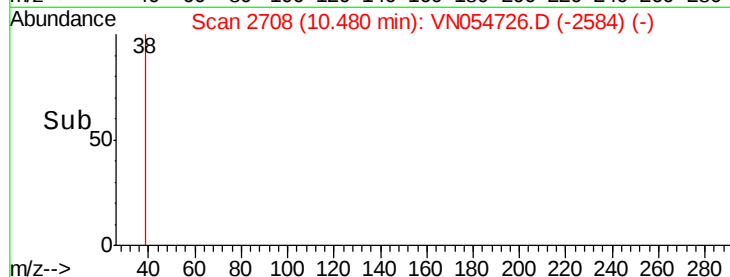
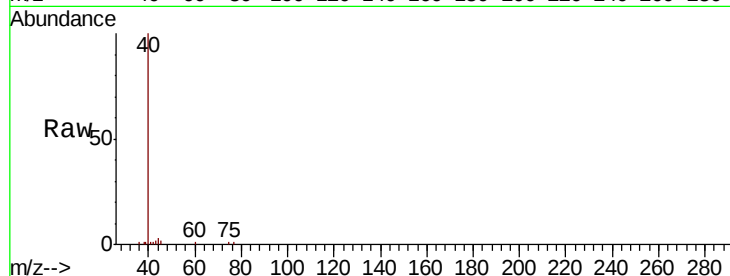
ClientSampled :

Tot Ion: 75 Resp: 31

Ion Ratio Lower Upper

75 100

77 5.0 25.8 38.8#



#54

cis-1,3-Dichloropropene

Concen: 5.636 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

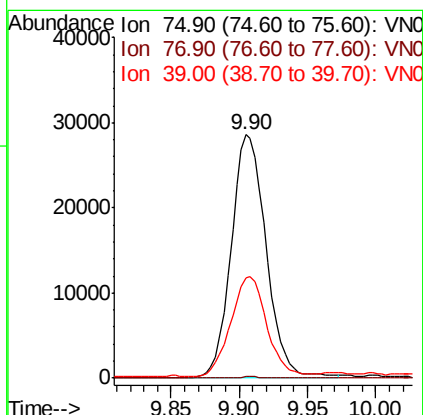
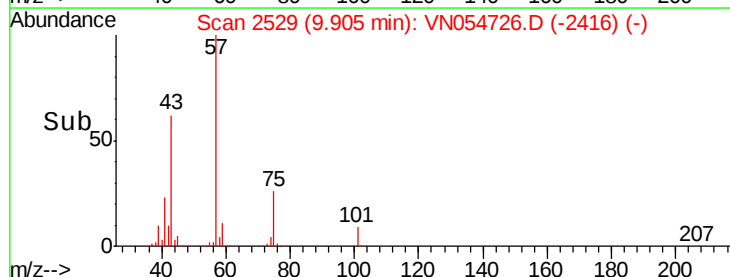
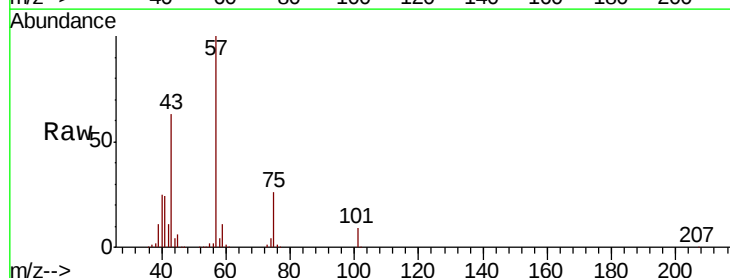
Tgt Ion: 75 Resp: 50951

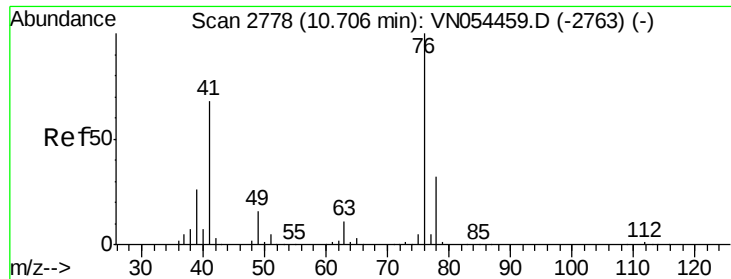
Ion Ratio Lower Upper

75 100

77 0.6 25.4 38.0#

39 40.7 37.2 55.8





#57

1,3-Dichloropropane

Concen: 0.972 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_N

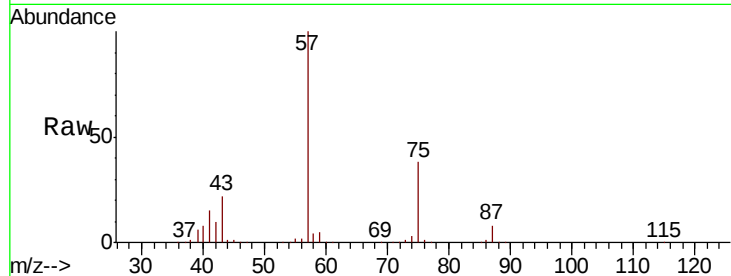
ClientSampled :

Tot Ion: 76 Resp: 8857

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.76

6000

5000

4000

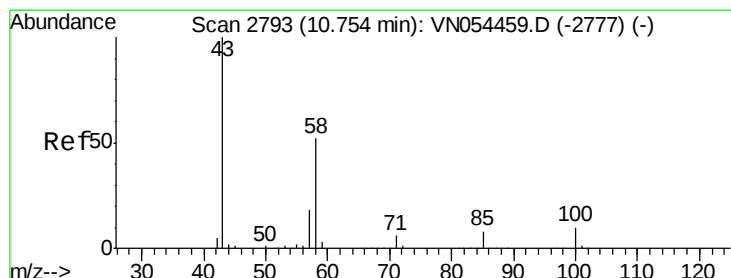
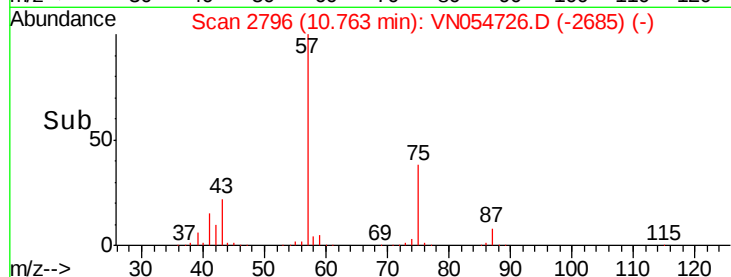
3000

2000

1000

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 40.819 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054726.D

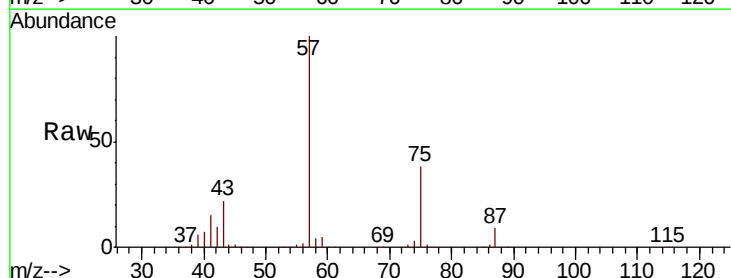
Acq: 27 Mar 2019 17:02

Tgt Ion: 43 Resp: 147205

Ion Ratio Lower Upper

43 100

58 18.3 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.77

100000

80000

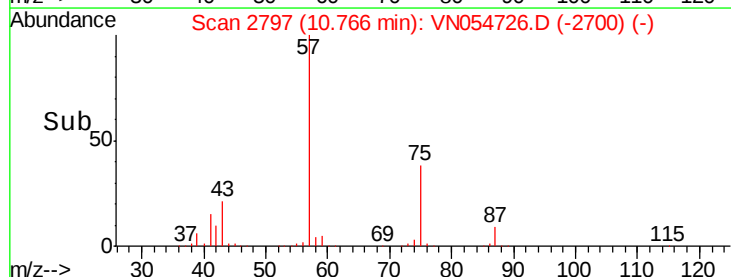
60000

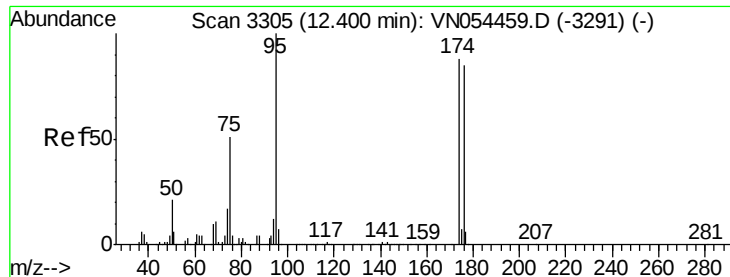
40000

20000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 43.983 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_N

ClientSampled :

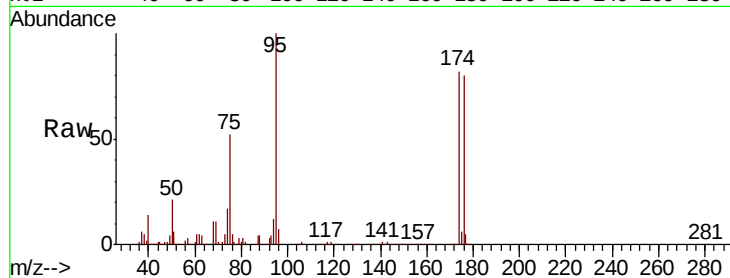
Tot Ion: 95 Resp: 321529

Ion Ratio Lower Upper

95 100

174 83.7 0.0 191.0

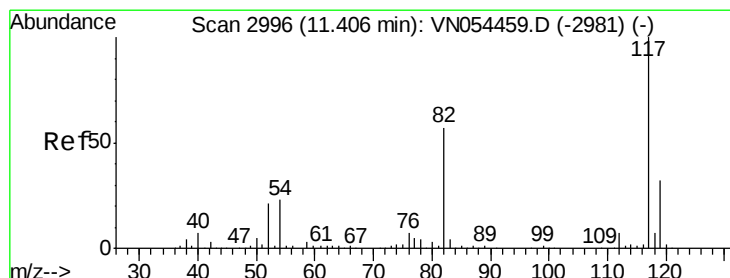
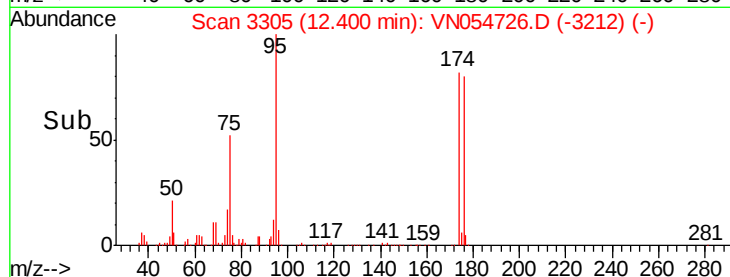
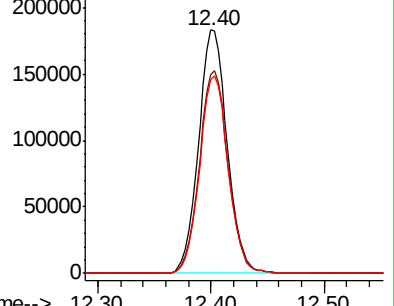
176 81.4 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054726.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054726.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054726.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

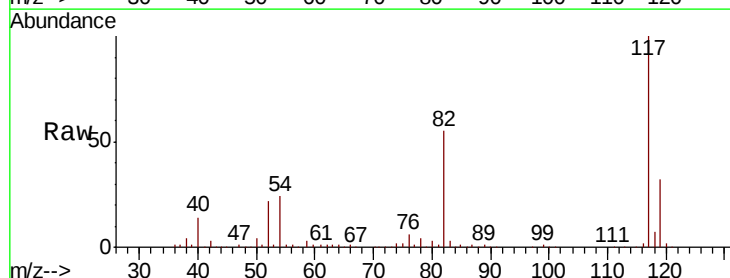
Tgt Ion: 117 Resp: 746312

Ion Ratio Lower Upper

117 100

82 55.1 40.0 60.0

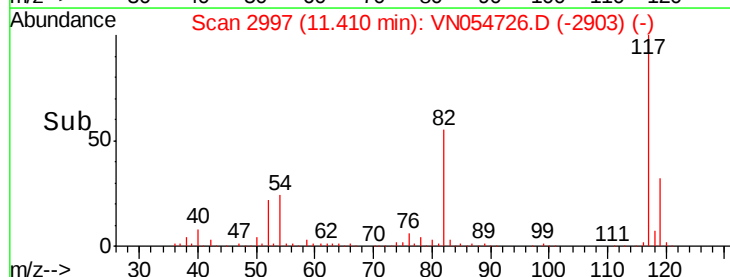
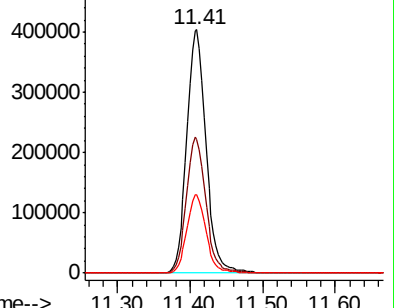
119 32.0 25.8 38.6

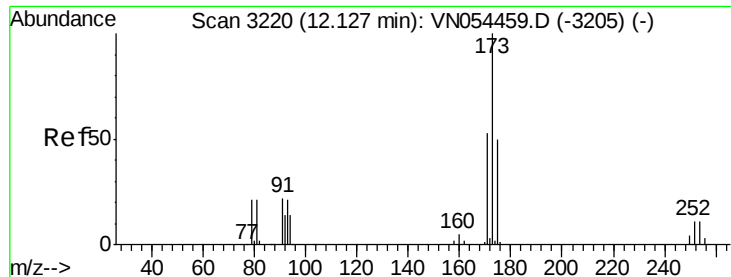


Abundance Ion 116.90 (116.60 to 117.60): VN054726.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054726.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054726.D (-2903) (-)

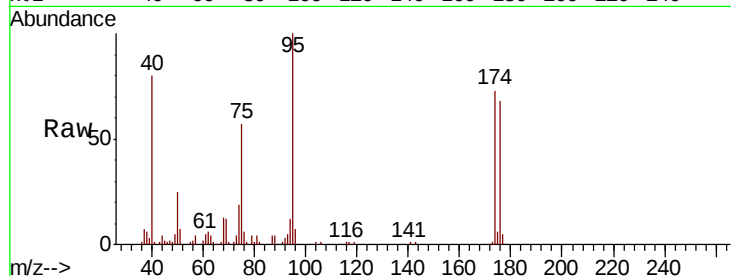




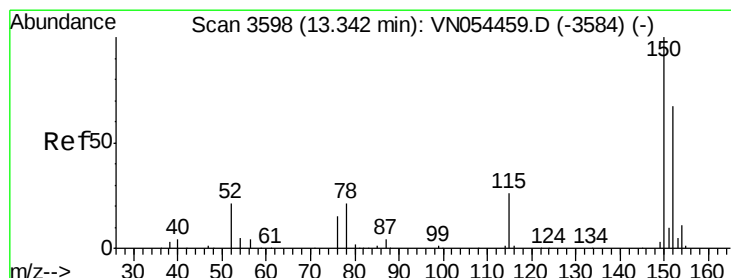
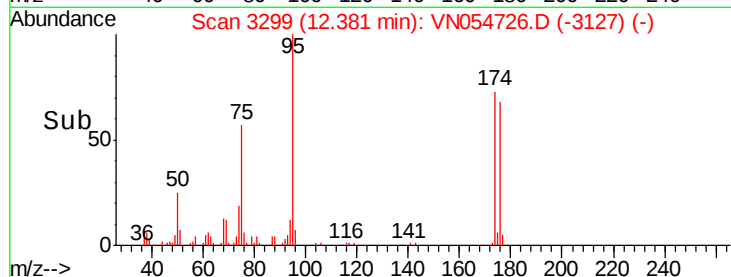
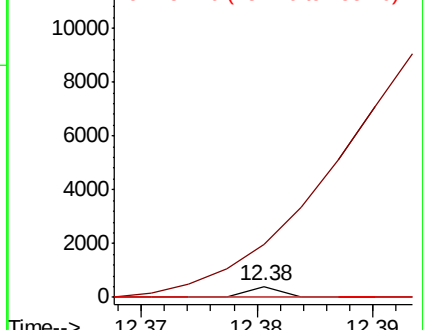
#71
Bromoform
Concen: 2.241 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.25 min
Lab File: VN054726.D
Acq: 27 Mar 2019 17:02

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 81
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#

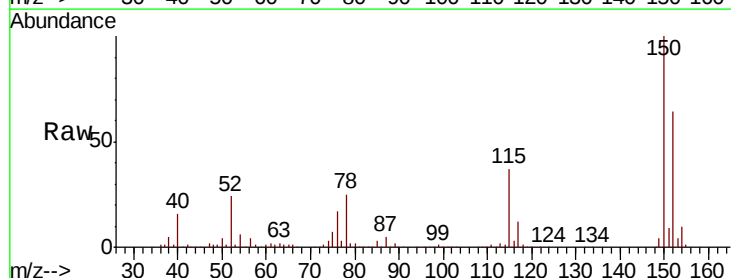


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

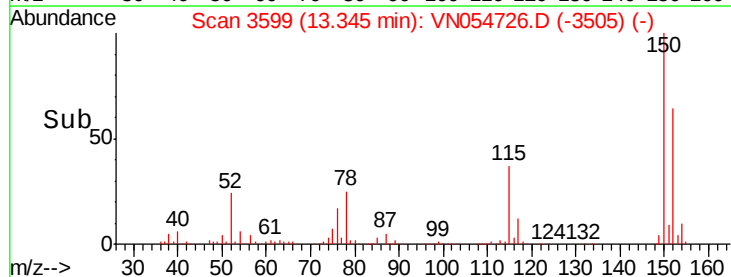
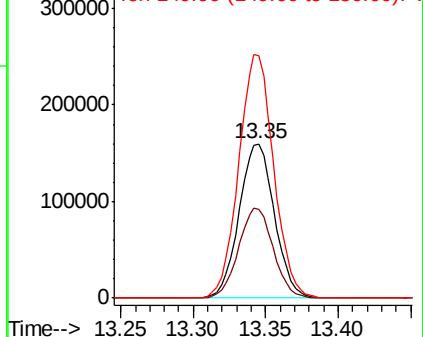


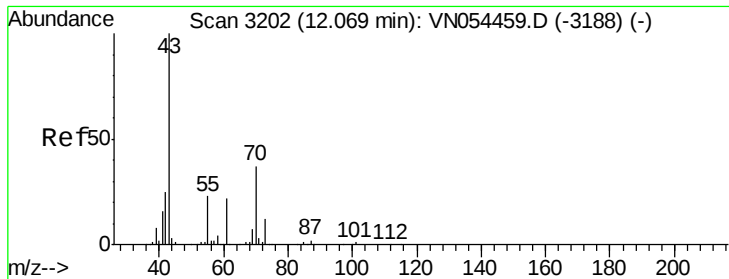
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054726.D
Acq: 27 Mar 2019 17:02

Tgt Ion:152 Resp: 269581
Ion Ratio Lower Upper
152 100
115 57.4 27.2 81.6
150 156.6 0.0 349.2



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-amvl acetate

Concen: 1.752 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 10945

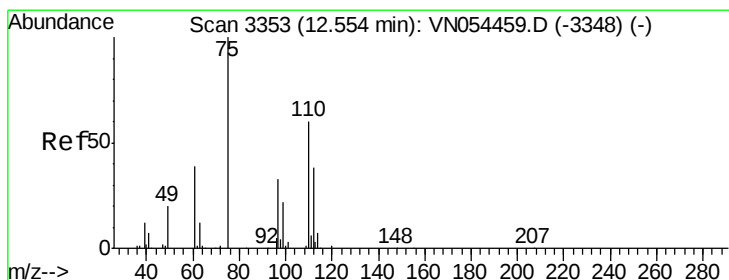
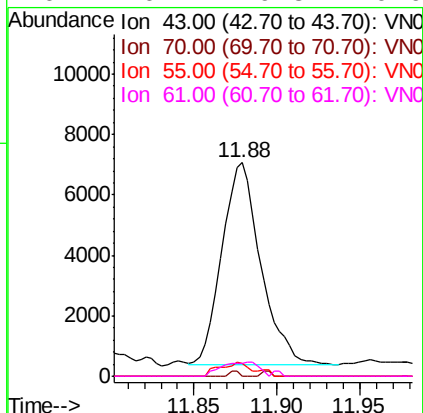
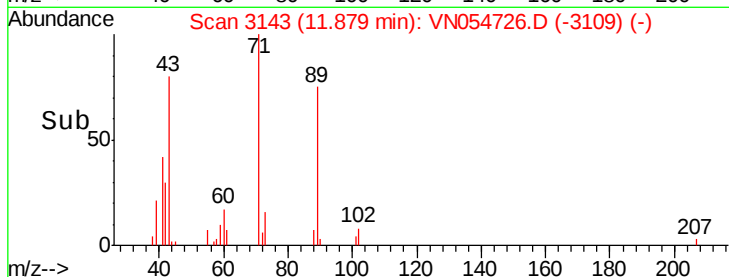
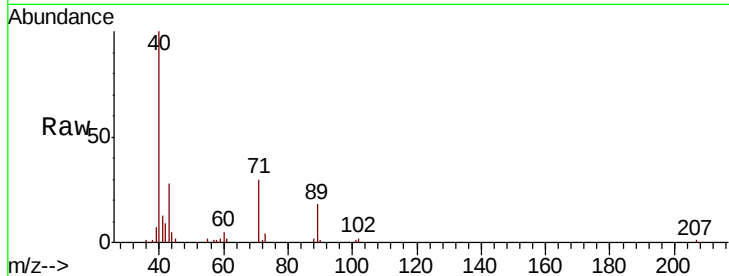
Ion Ratio Lower Upper

43 100

70 0.6 35.4 53.0#

55 6.1 19.8 29.6#

61 6.7 19.8 29.6#



#76

1,2,3-Trichloropropane

Concen: 39.506 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054726.D

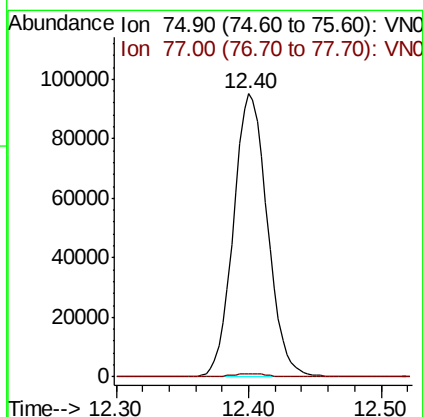
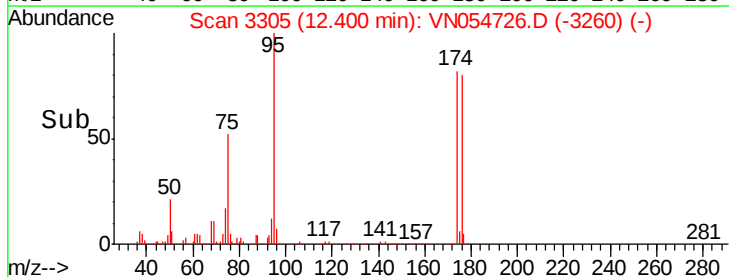
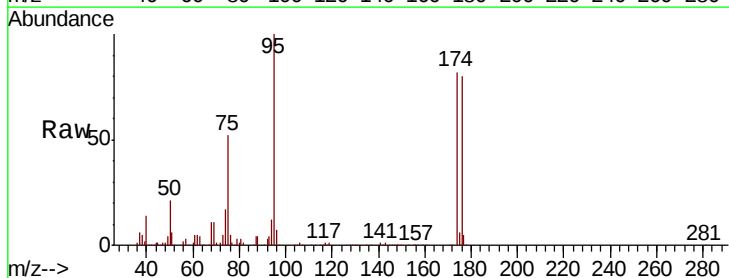
Acq: 27 Mar 2019 17:02

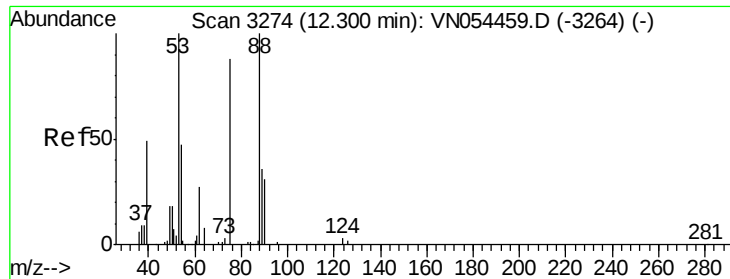
Tgt Ion: 75 Resp: 169001

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 130.724 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054726.D

Acq: 27 Mar 2019 17:02

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 169001

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

