

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033019\
 Data File : VN054811.D
 Acq On : 30 Mar 2019 19:05
 Operator : JC/SP
 Sample : K2138-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 22:42:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	533004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	885323	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	745433	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	267860	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	368255	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
35) Dibromofluoromethane	7.59	113	286176	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	10.09	98	1053199	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
62) 4-Bromofluorobenzene	12.40	95	321483	44.05	ug/l	0.00
Spiked Amount			Recovery	=	88.10%	

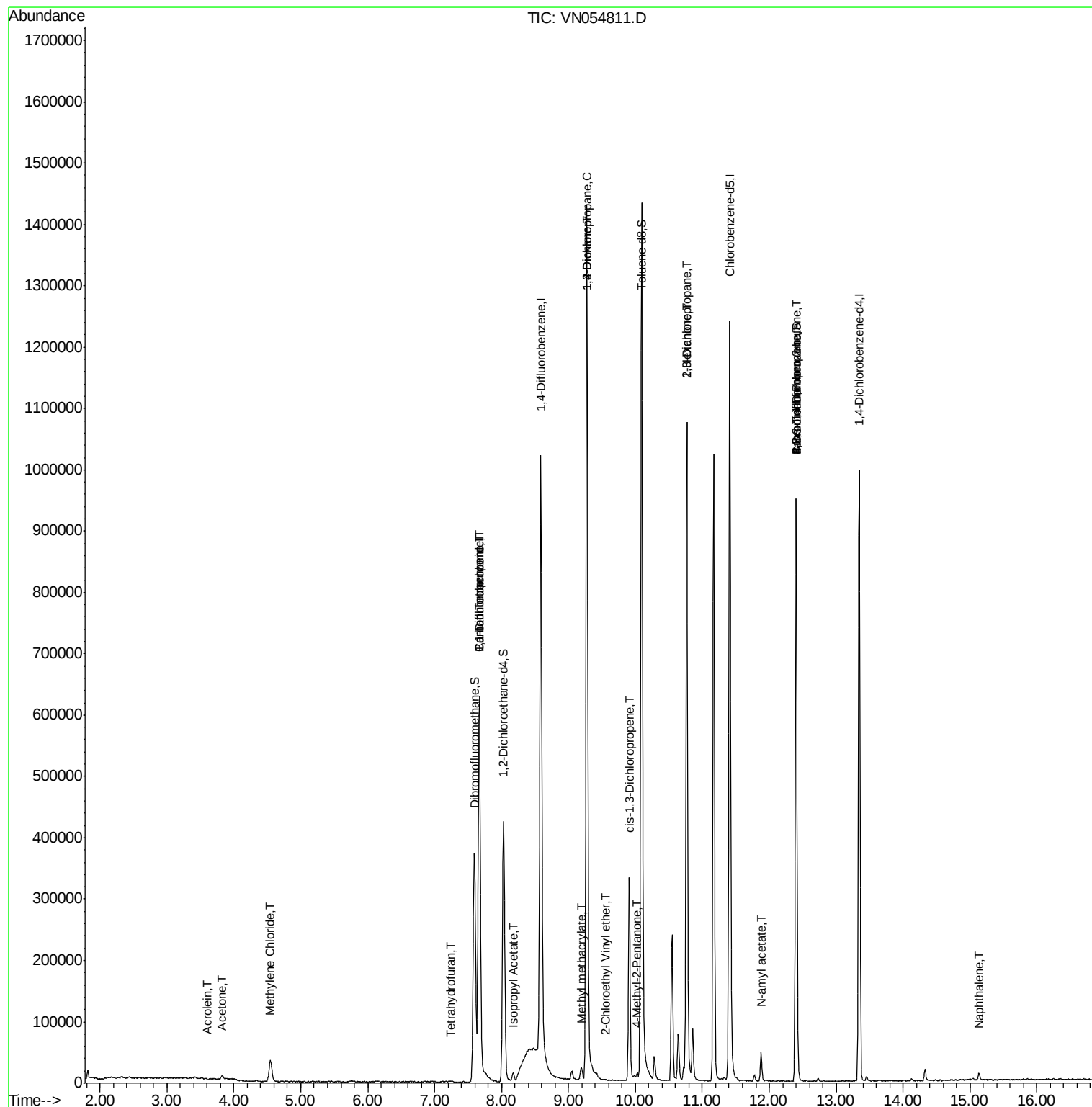
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	108	Below Cal	#	2
13) Acrolein	3.61	56	180	0.538	ug/l #	1
16) Acetone	3.82	43	8772	5.120	ug/l #	77
18) Methyl Acetate	4.34	43	1834	Below Cal		94
20) Methylene Chloride	4.55	84	23515	3.891	ug/l #	91
29) Tetrahydrofuran	7.22	42	1708	0.971	ug/l #	32
31) Cyclohexane	7.66	56	11616	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	40608	4.922	ug/l #	47
38) Carbon Tetrachloride	7.67	117	50942	6.358	ug/l #	17
43) Isopropyl Acetate	8.18	43	17571	1.788	ug/l #	93
45) 1,2-Dichloropropane	9.27	63	1689	0.251	ug/l #	43
48) Methyl methacrylate	9.18	41	8089	1.518	ug/l #	11
49) 1,4-Dioxane	9.27	88	120	2.270	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	8744	1.582	ug/l #	36
54) cis-1,3-Dichloropropene	9.91	75	54914	6.210	ug/l #	69
57) 1,3-Dichloropropane	10.76	76	10770	1.199	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.56	63	62	10.375	ug/l #	44
59) 2-Hexanone	10.77	43	174353	49.282	ug/l #	47
71) Bromoform	12.39	173	1000	0.312	ug/l #	1
74) N-amyl acetate	11.88	43	16628	2.438	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	12.40	83	62	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	167548	36.006	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	167548	140.054	ug/l #	11
95) Naphthalene	15.13	128	9656	1.000	ug/l	99

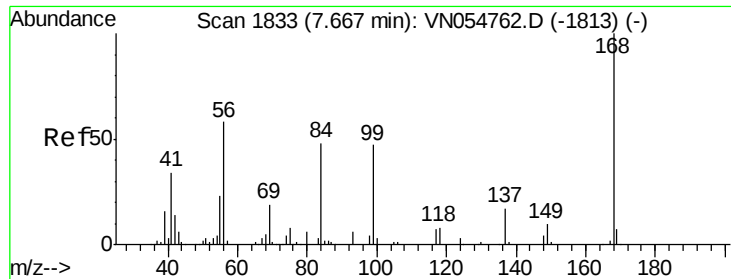
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN033019\
Data File : VN054811.D
Acq On : 30 Mar 2019 19:05
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Quant Time: Mar 30 22:42:49 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

Instrument :

MSVOA_N

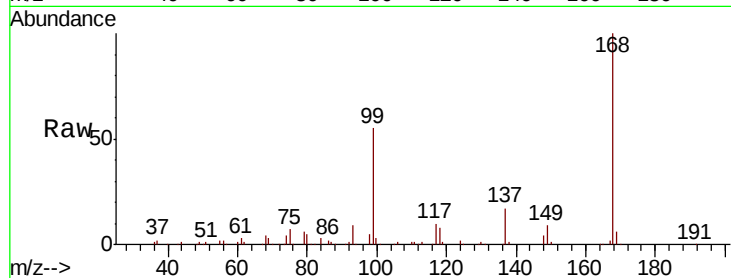
ClientSampled :

Tot Ion:168 Resp: 533004

Ion Ratio Lower Upper

168 100

99 54.8 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

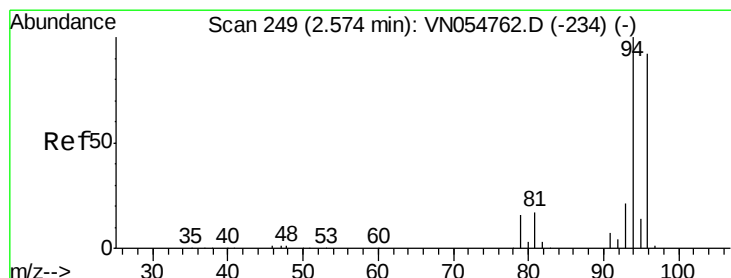
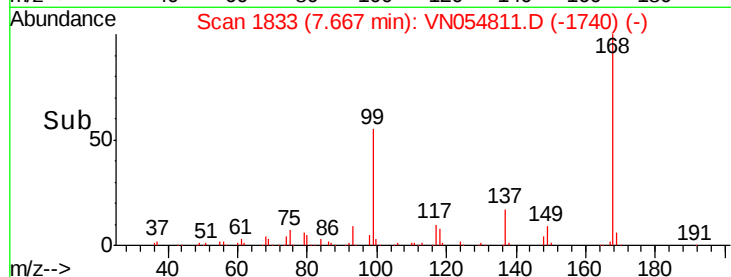
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054811.D

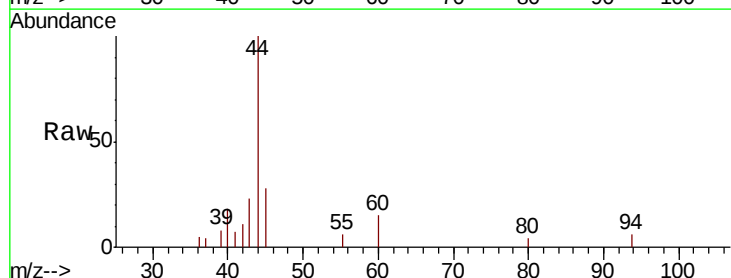
Acq: 30 Mar 2019 19:05

Tgt Ion: 94 Resp: 108

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

250

200

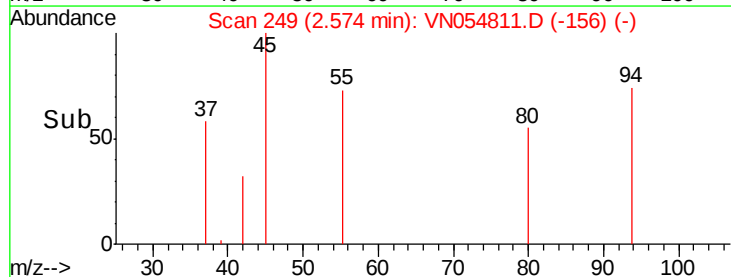
150

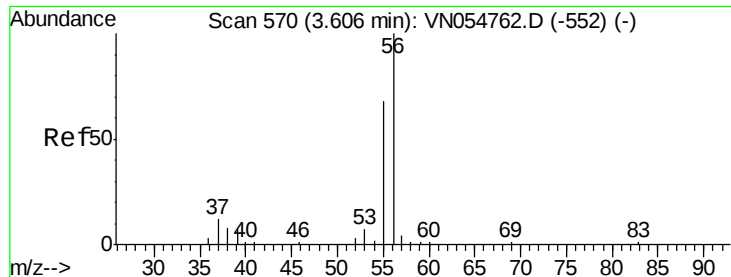
100

50

0

Time-->





#13

Acrolein

Concen: 0.538 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

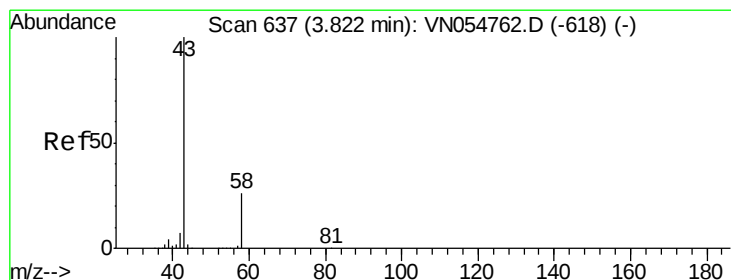
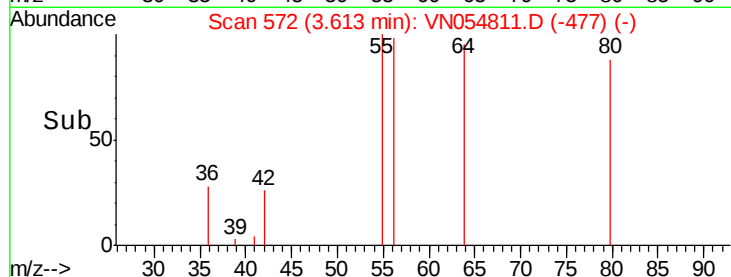
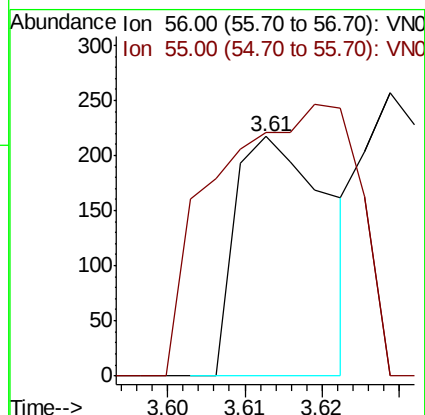
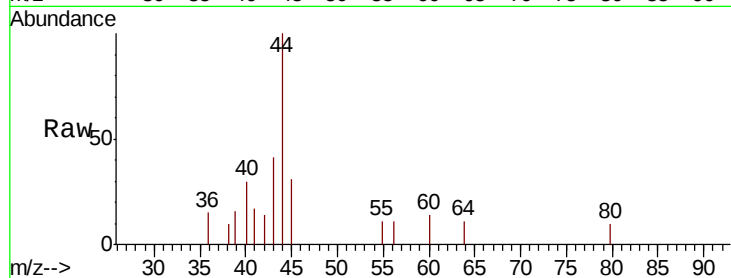
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 180

Ion Ratio Lower Upper

56 100

55 176.1 56.7 85.1#



#16

Acetone

Concen: 5.120 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054811.D

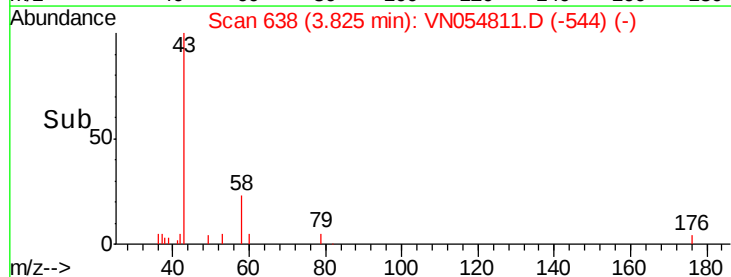
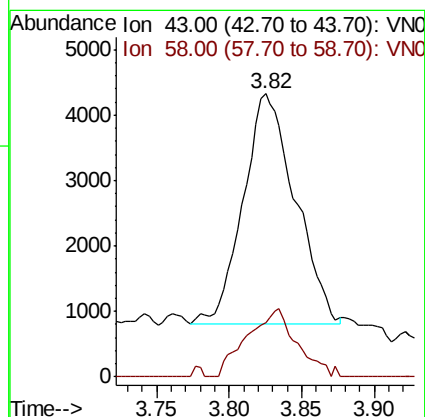
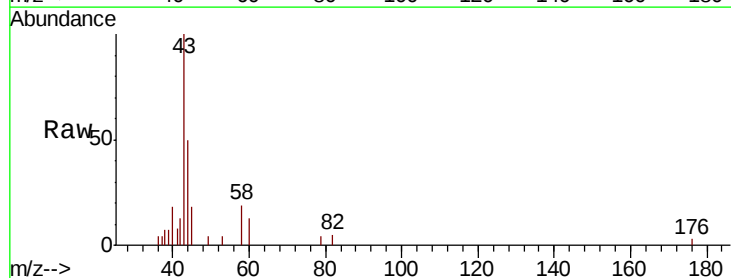
Acq: 30 Mar 2019 19:05

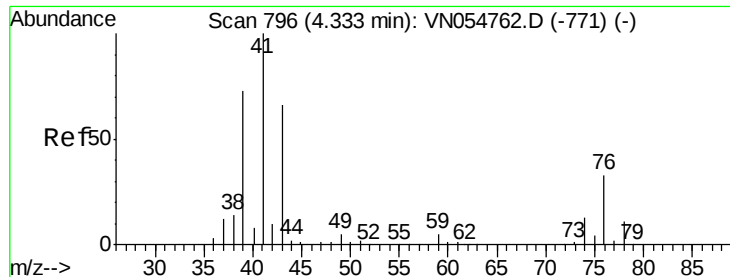
Tgt Ion: 43 Resp: 8772

Ion Ratio Lower Upper

43 100

58 23.6 29.9 44.9#

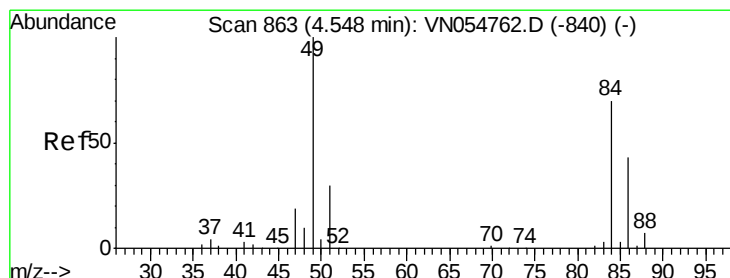
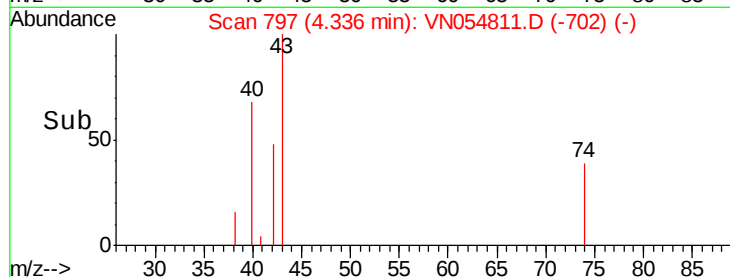
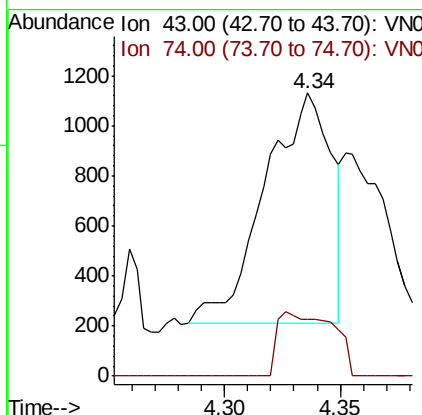
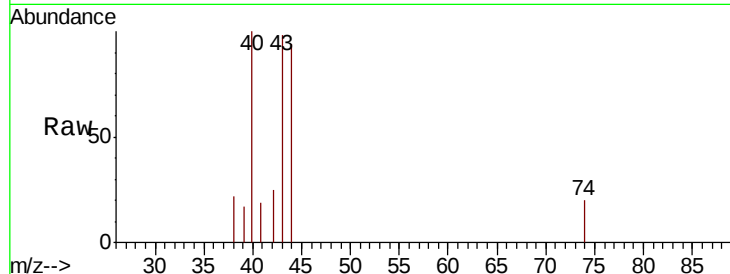




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 797
Delta R.T. 0.00 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

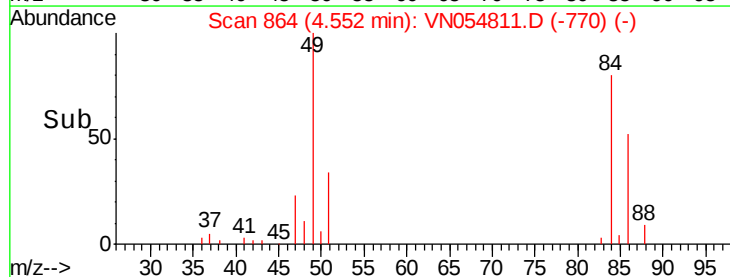
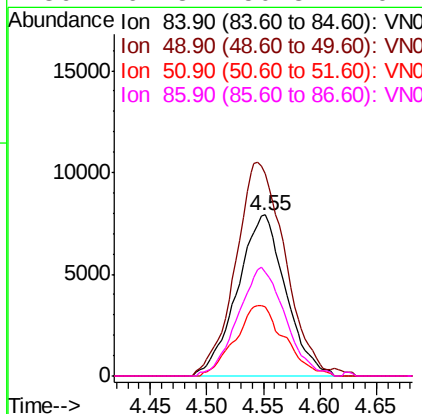
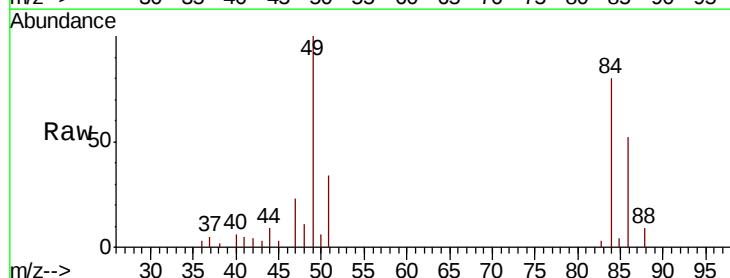
Instrument :
MSVOA_N
ClientSampled :

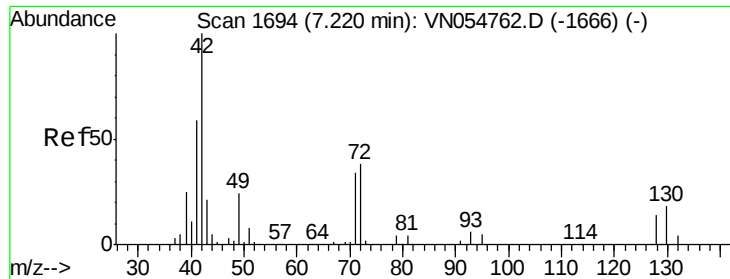
Tot Ion: 43 Resp: 1834
Ion Ratio Lower Upper
43 100
74 23.0 20.8 31.2



#20
Methylene Chloride
Concen: 3.891 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

Tgt Ion: 84 Resp: 23515
Ion Ratio Lower Upper
84 100
49 125.3 89.7 134.5
51 42.7 28.2 42.4#
86 64.8 50.8 76.2

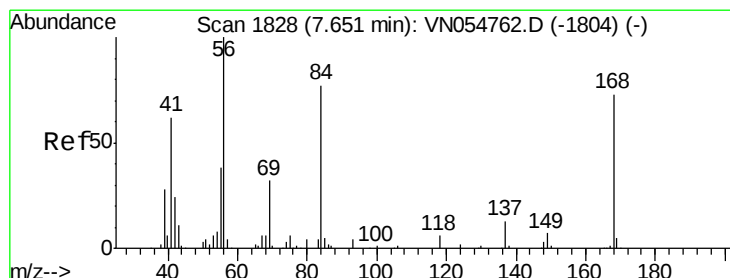
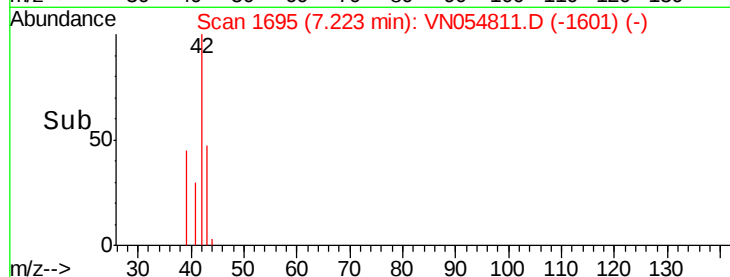
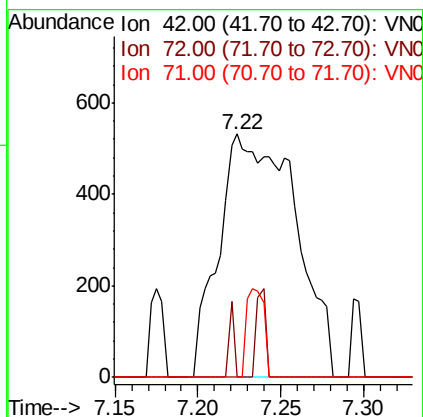
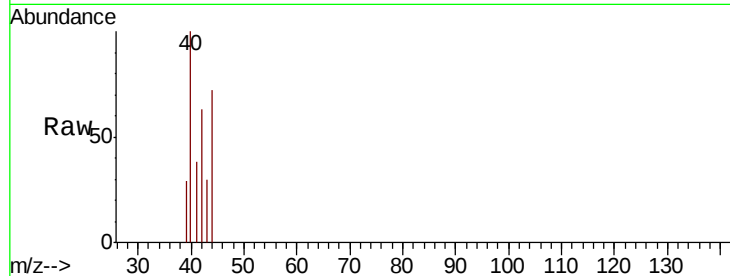




#29
Tetrahydrofuran
Concen: 0.971 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

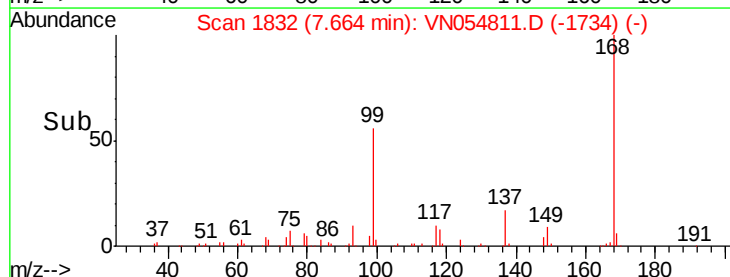
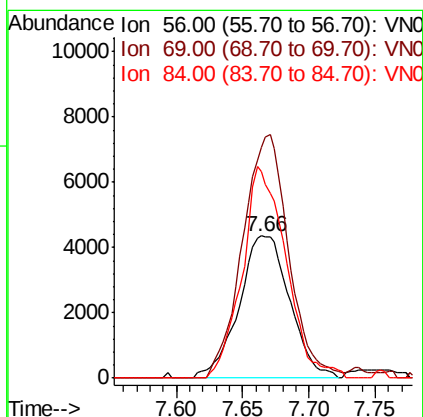
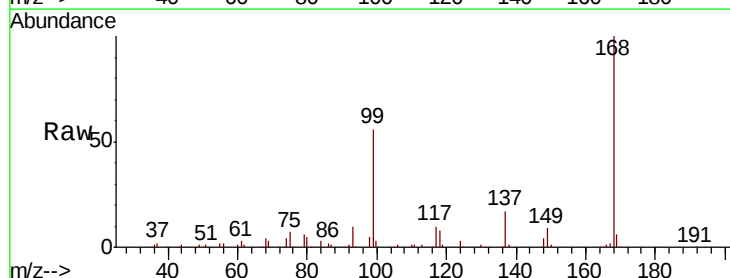
Instrument :
MSVOA_N
ClientSampleId :

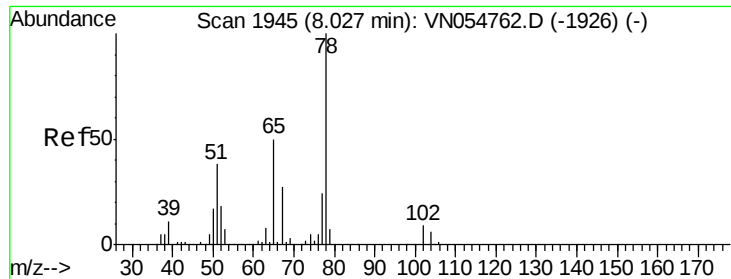
Tot Ion: 42 Resp: 1708
Ion Ratio Lower Upper
42 100
72 1.9 37.8 56.6#
71 0.0 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

Tgt Ion: 56 Resp: 11616
Ion Ratio Lower Upper
56 100
69 161.8 27.8 41.6#
84 145.4 74.6 111.8#

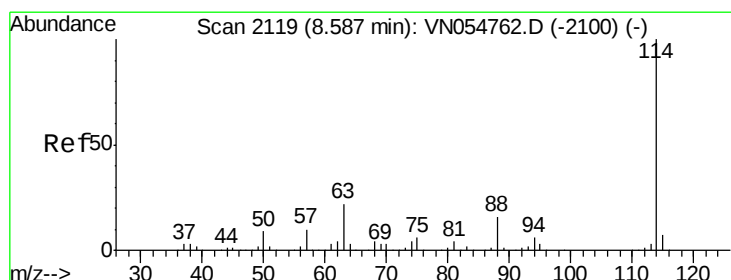
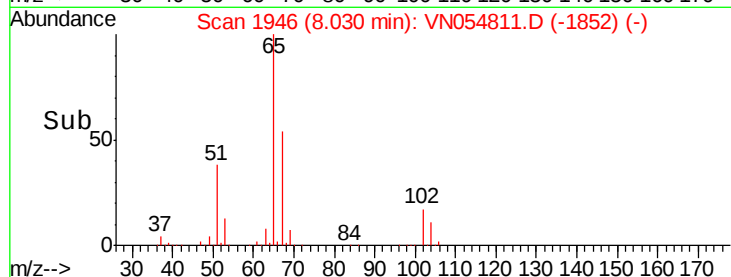
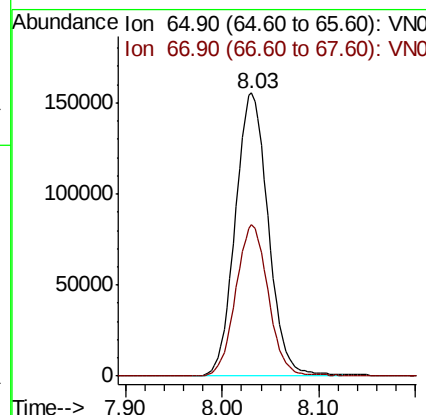
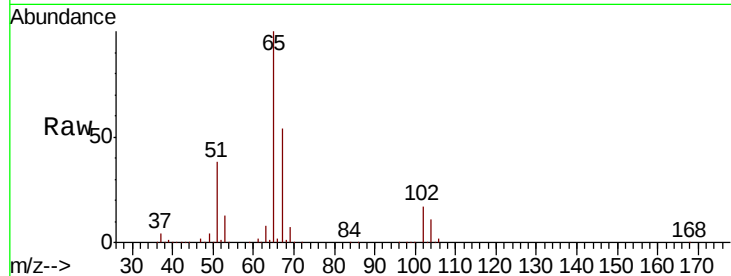




#33
 1,2-Dichloroethane-d4
 Concen: 51.253 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054811.D
 Acq: 30 Mar 2019 19:05

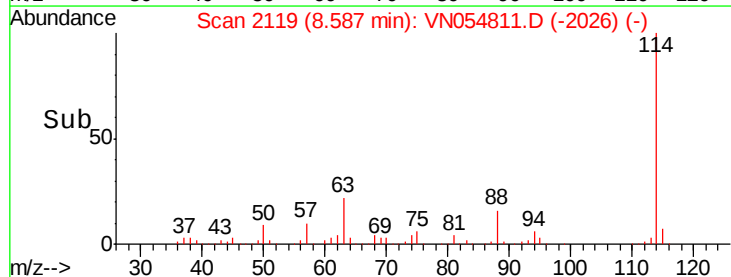
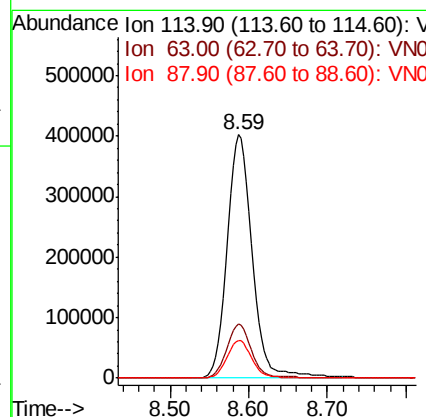
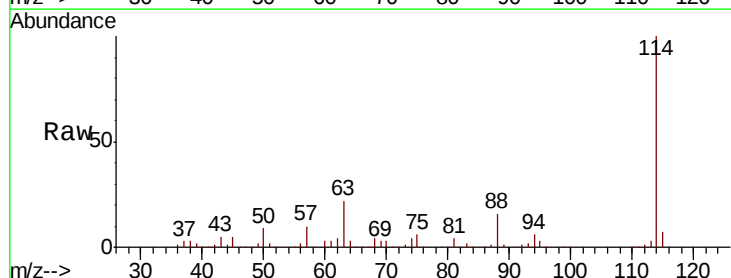
Instrument :
 MSVOA_N
 ClientSampleId :

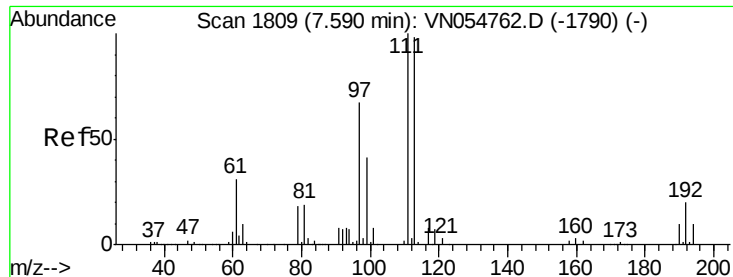
Tot Ion: 65 Resp: 368255
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054811.D
 Acq: 30 Mar 2019 19:05

Tgt Ion: 114 Resp: 885323
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 35.2
 88 15.6 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.485 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

Instrument :
MSVOA_N
ClientSampleId :

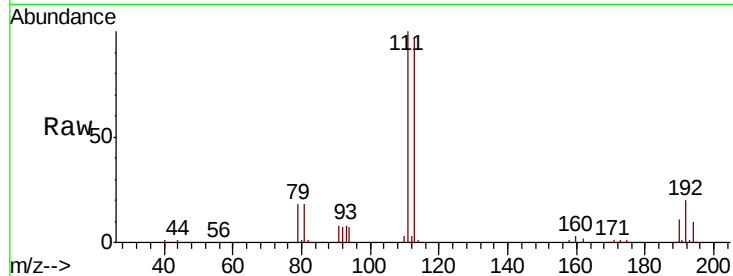
Tot Ion:113 Resp: 286176

Ion Ratio Lower Upper

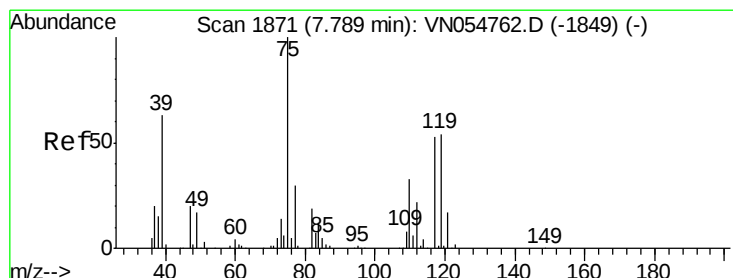
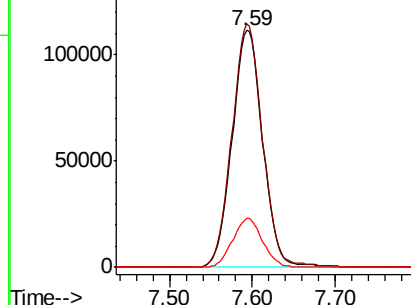
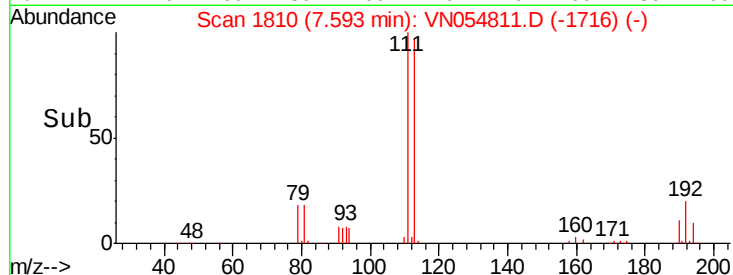
113 100

111 102.8 82.2 123.4

192 20.3 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: 4.922 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

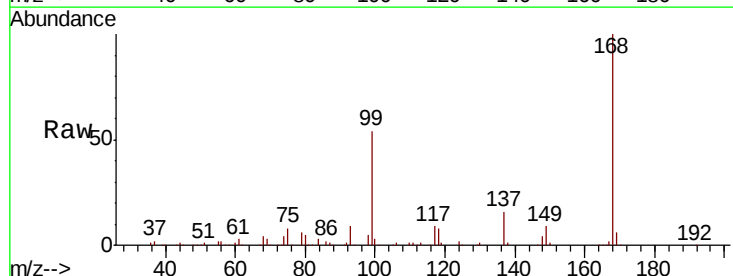
Tgt Ion: 75 Resp: 40608

Ion Ratio Lower Upper

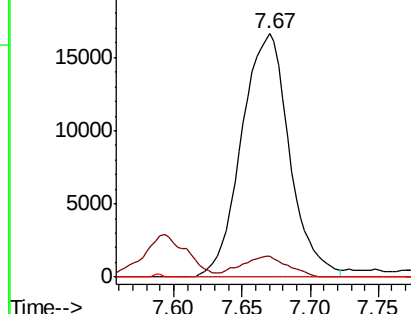
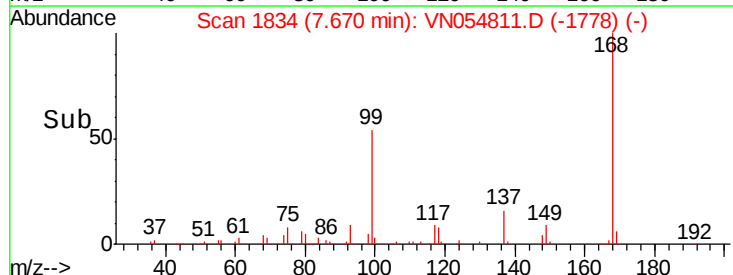
75 100

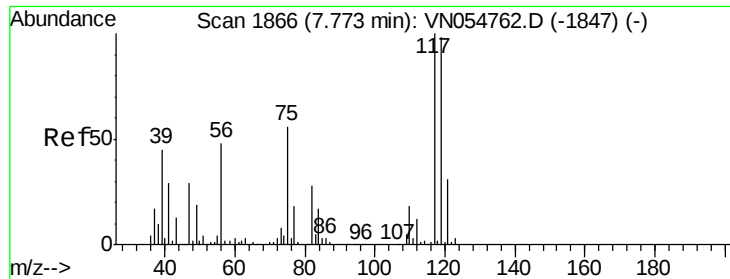
110 8.5 19.1 57.5#

77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 6.358 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

Instrument :

MSVOA_N

ClientSampleId :

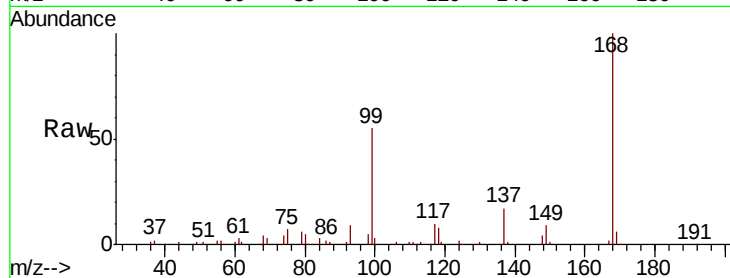
Tot Ion:117 Resp: 50942

Ion Ratio Lower Upper

117 100

119 6.3 76.3 114.5#

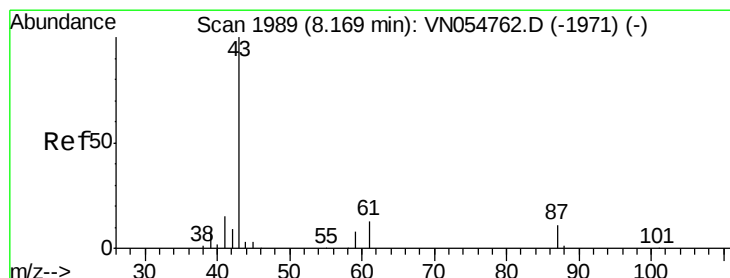
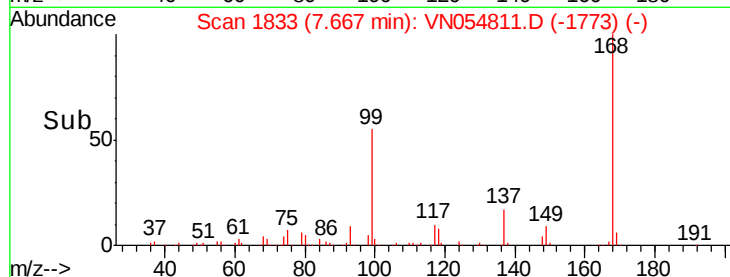
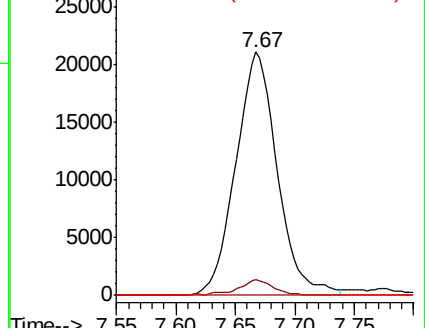
121 0.0 24.6 36.8#



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: 1.788 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

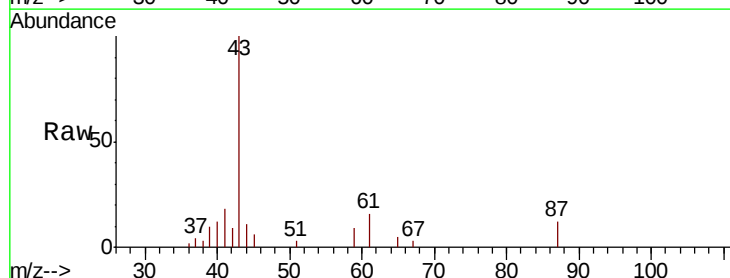
Tgt Ion: 43 Resp: 17571

Ion Ratio Lower Upper

43 100

61 16.7 15.8 23.8

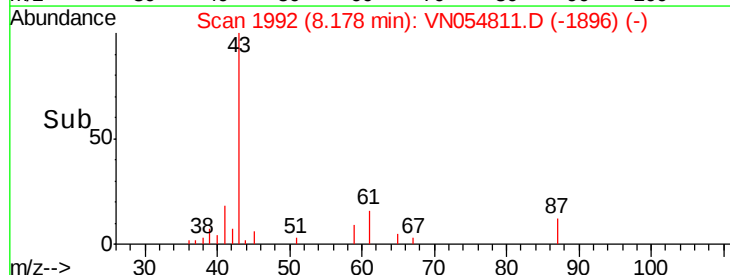
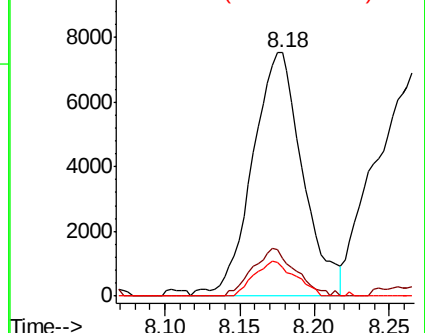
87 11.6 12.0 18.0#

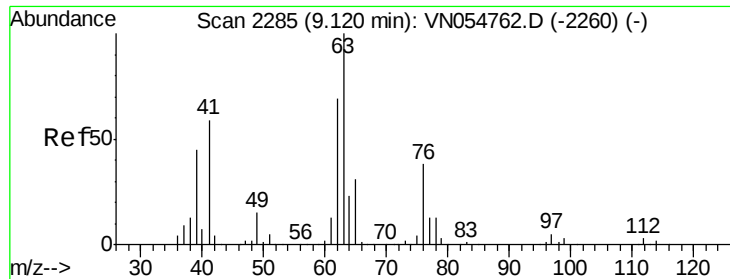


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

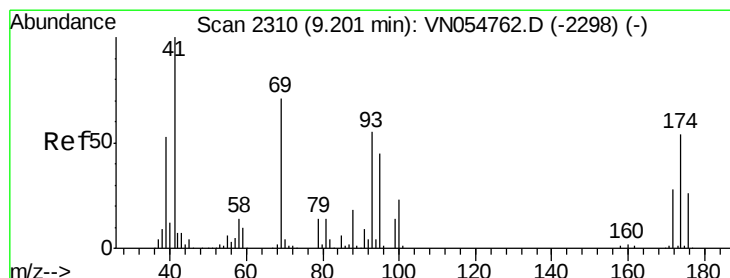
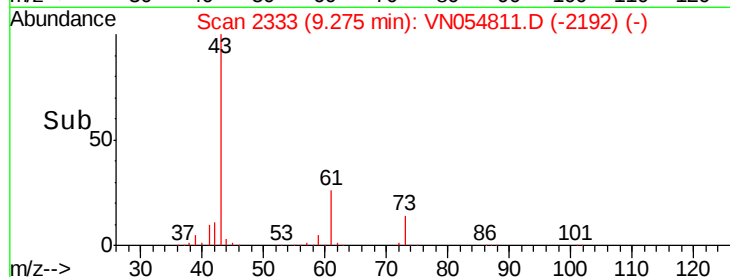
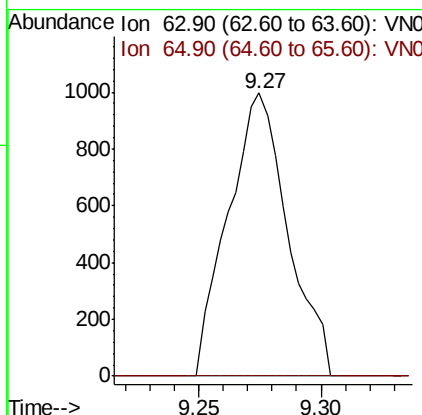
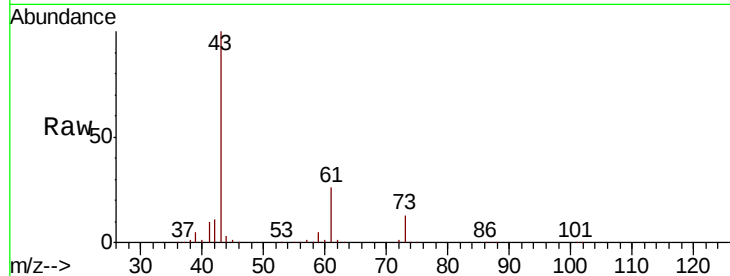




#45
 1,2-Dichloropropane
 Concen: 0.251 ug/l
 RT: 9.27 min Scan# 2333
 Delta R.T. 0.15 min
 Lab File: VN054811.D
 Acq: 30 Mar 2019 19:05

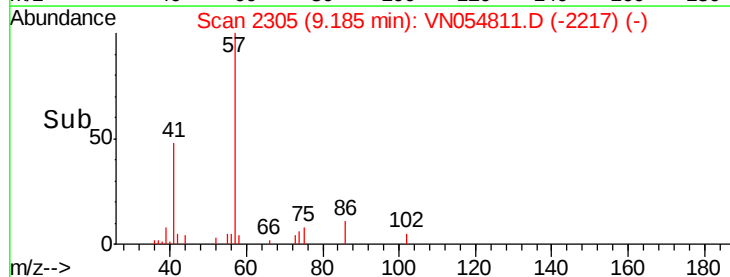
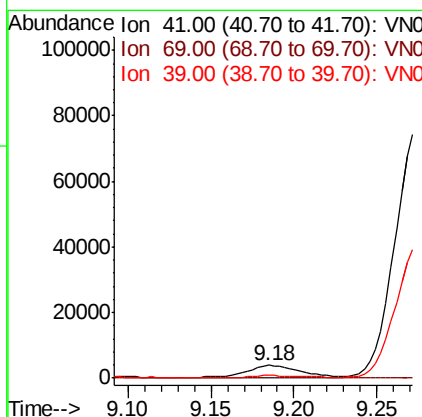
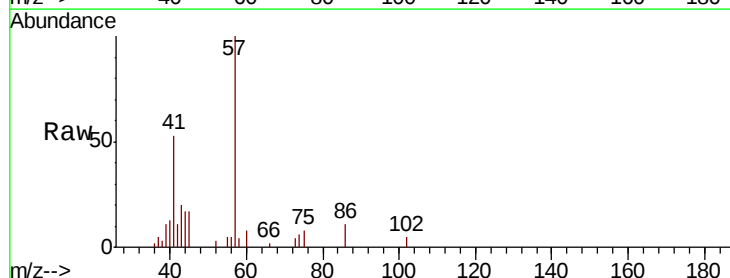
Instrument :
 MSVOA_N
 ClientSampled :

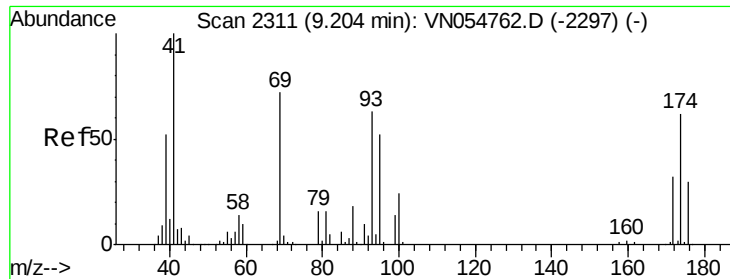
Tot Ion: 63 Resp: 1689
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.518 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN054811.D
 Acq: 30 Mar 2019 19:05

Tgt Ion: 41 Resp: 8089
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 0.0 47.5 71.3#





#49

1,4-Dioxane

Concen: 2.270 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.07 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

Instrument :
MSVOA_N
ClientSampleId :

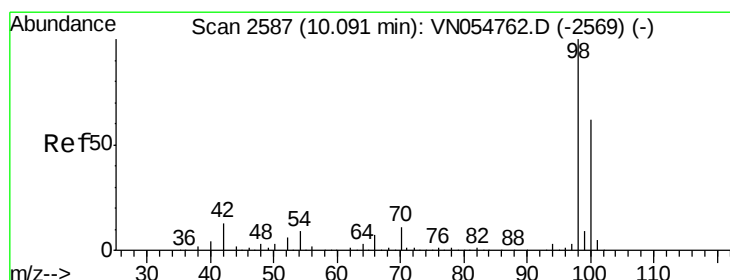
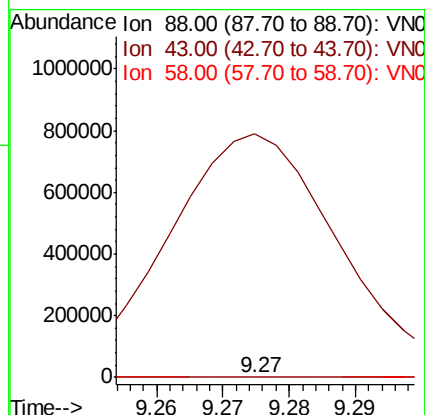
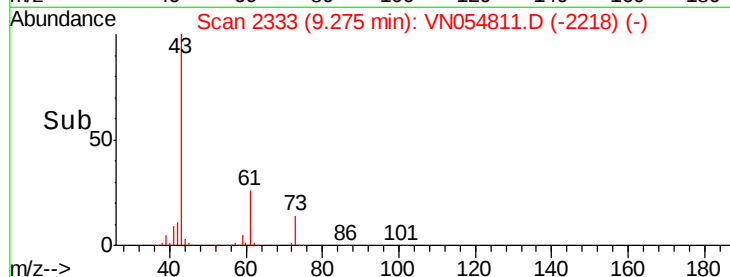
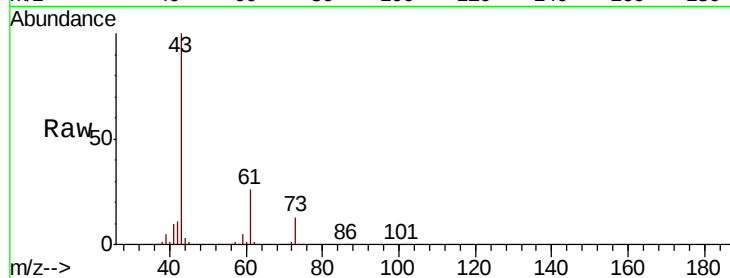
Tot Ion: 88 Resp: 120

Ion Ratio Lower Upper

88 100

43 1269302.5 24.1 36.1#

58 5488.3 50.8 76.2#



#50

Toluene-d8

Concen: 47.995 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054811.D

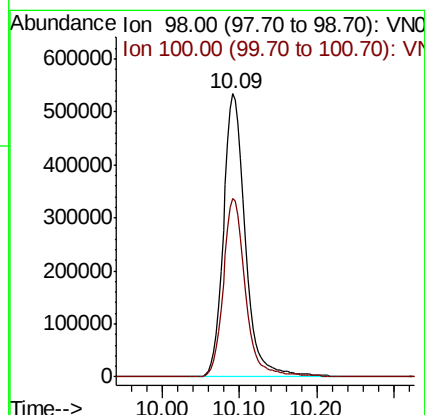
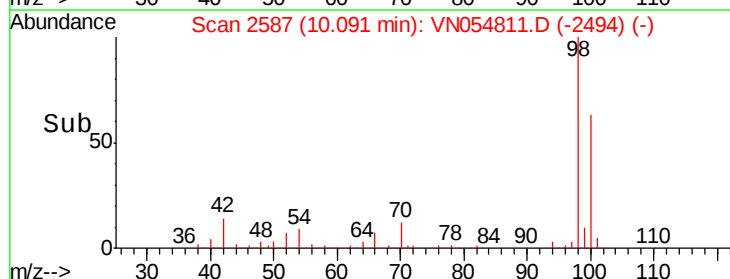
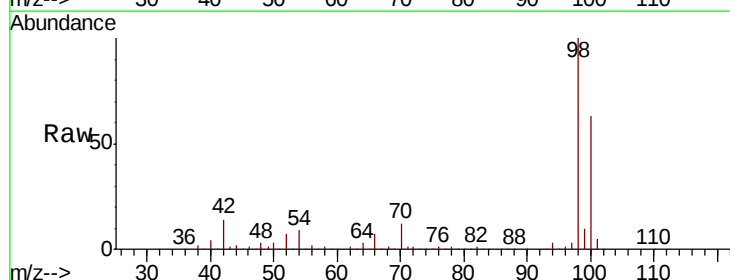
Acq: 30 Mar 2019 19:05

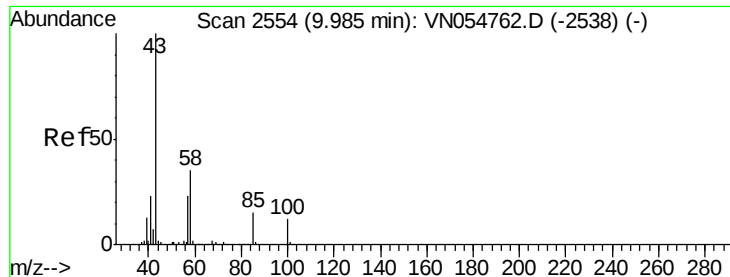
Tgt Ion: 98 Resp: 1053199

Ion Ratio Lower Upper

98 100

100 63.4 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.582 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

Instrument :

MSVOA_N

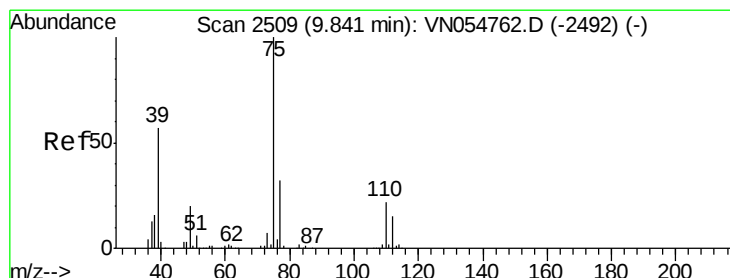
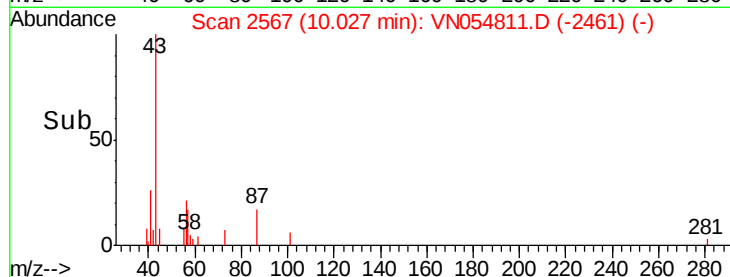
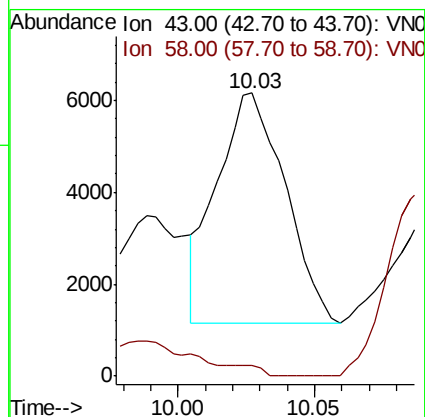
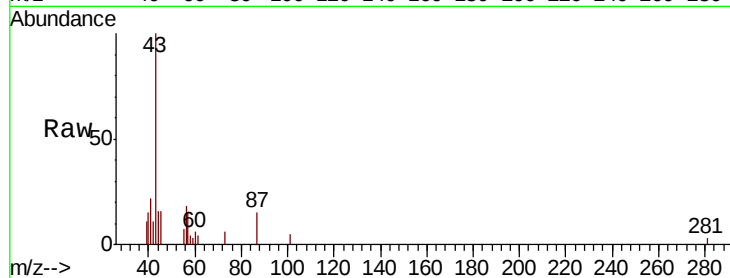
ClientSampled :

Tot Ion: 43 Resp: 8744

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#54

cis-1,3-Dichloropropene

Concen: 6.210 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

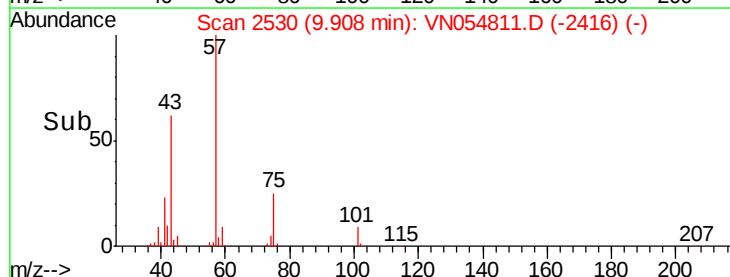
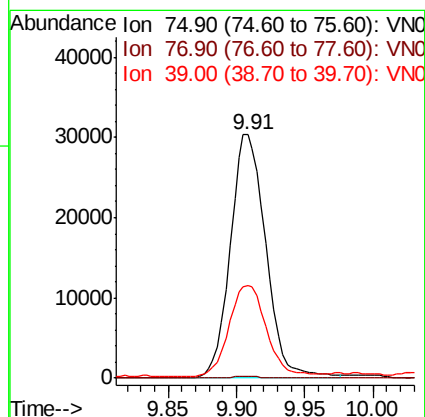
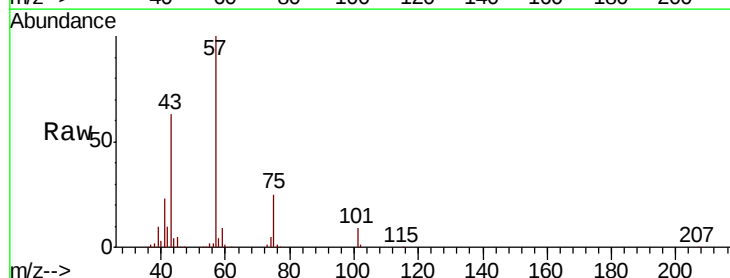
Tgt Ion: 75 Resp: 54914

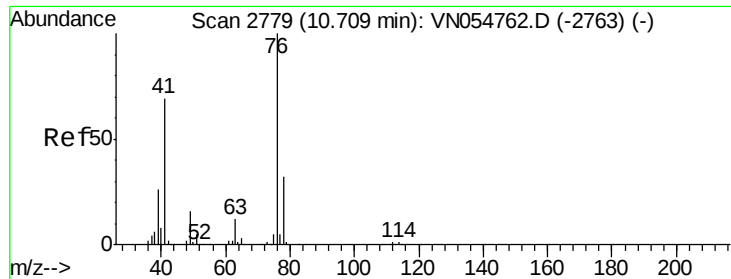
Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

39 37.3 37.2 55.8

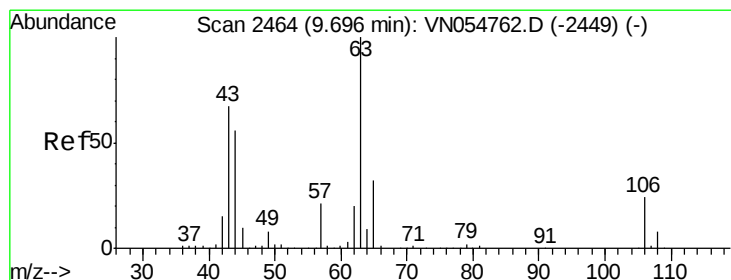
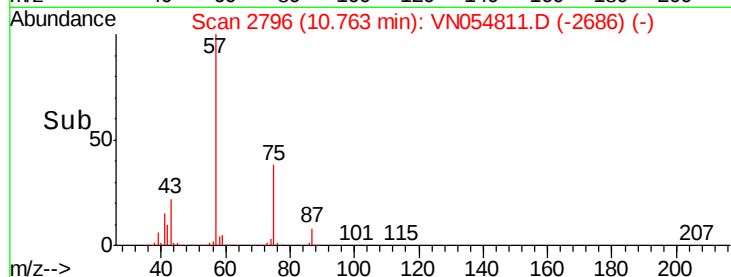
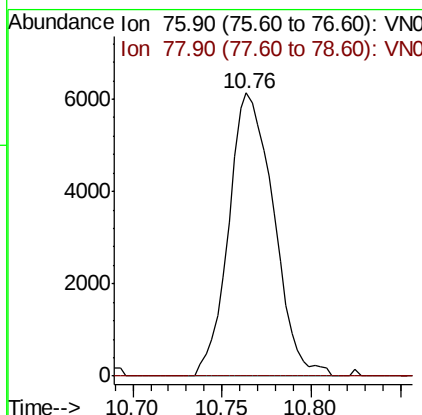
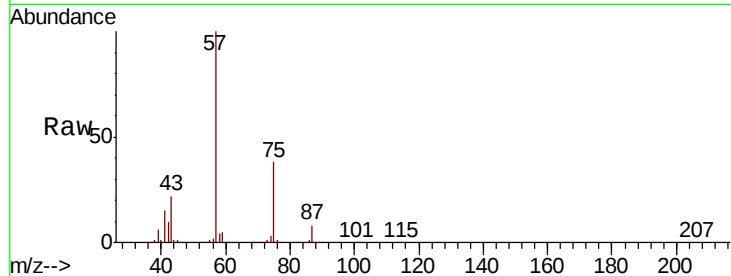




#57
 1,3-Dichloropropane
 Concen: 1.199 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN054811.D
 Acq: 30 Mar 2019 19:05

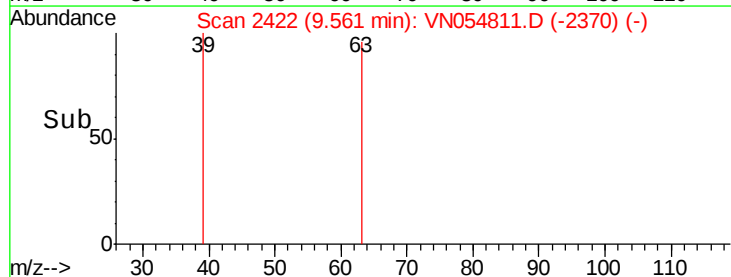
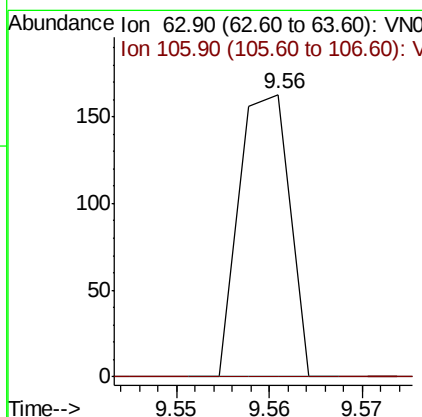
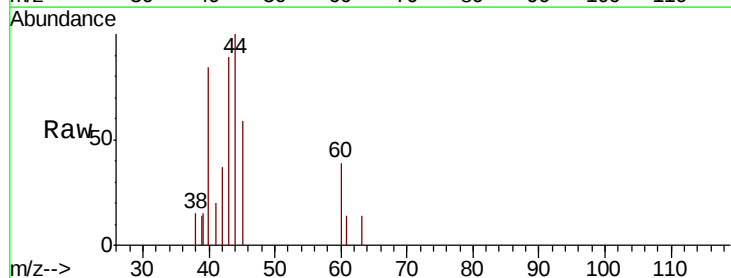
Instrument :
 MSVOA_N
 ClientSampleId :

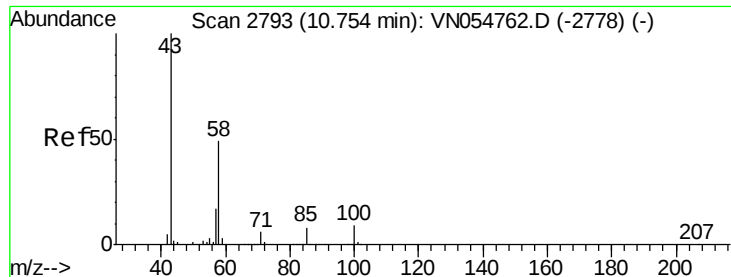
Tot Ion: 76 Resp: 10770
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.375 ug/l
 RT: 9.56 min Scan# 2422
 Delta R.T. -0.13 min
 Lab File: VN054811.D
 Acq: 30 Mar 2019 19:05

Tgt Ion: 63 Resp: 62
 Ion Ratio Lower Upper
 63 100
 106 0.0 24.4 36.6#

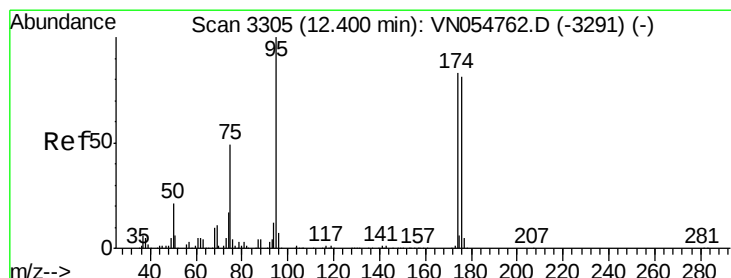
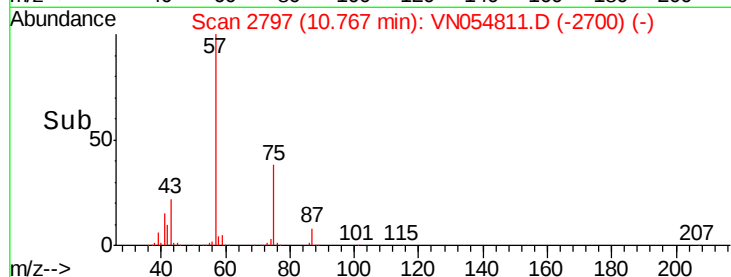
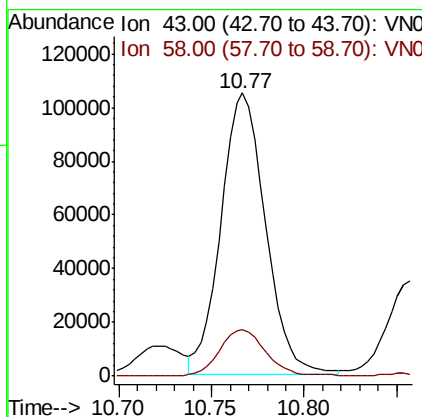
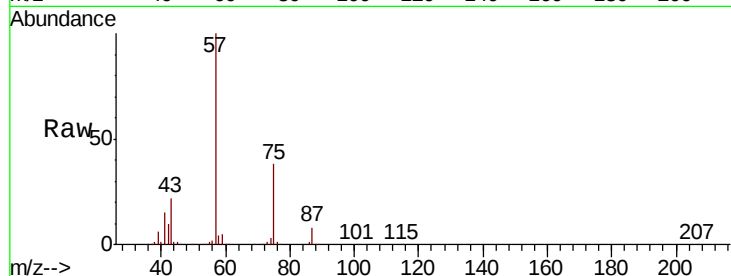




#59
2-Hexanone
Concen: 49.282 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

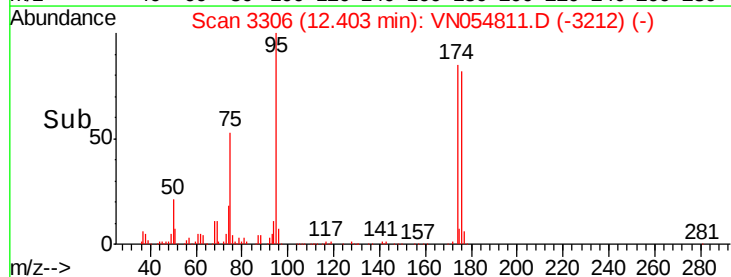
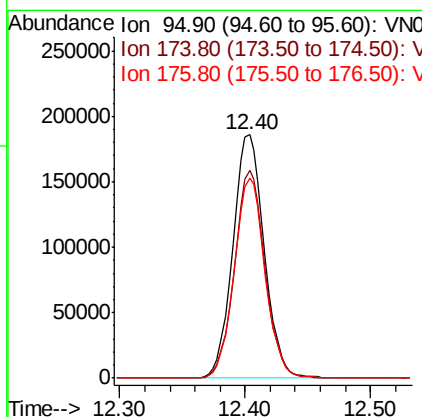
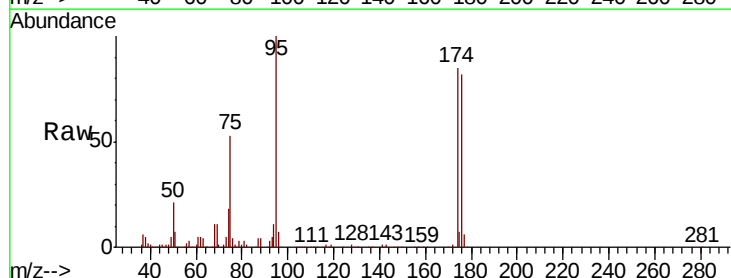
Instrument :
MSVOA_N
ClientSampleId :

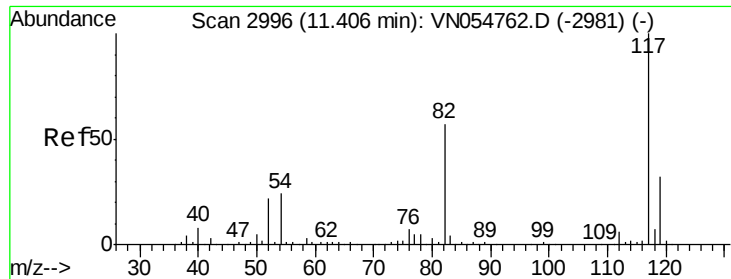
Tot Ion: 43 Resp: 174353
Ion Ratio Lower Upper
43 100
58 17.5 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.051 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

Tgt Ion: 95 Resp: 321483
Ion Ratio Lower Upper
95 100
174 83.1 0.0 191.0
176 80.9 0.0 187.4

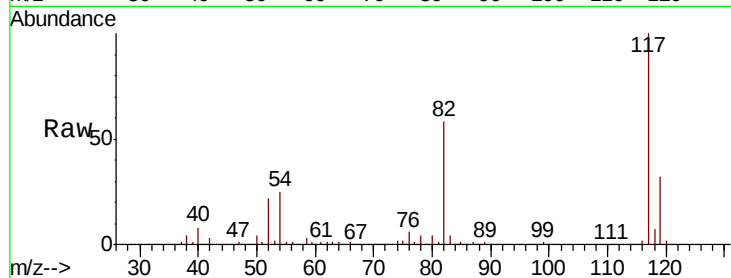




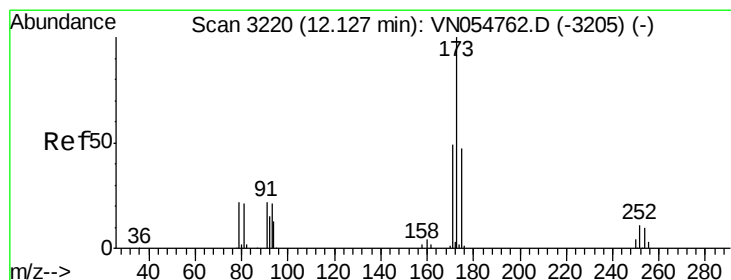
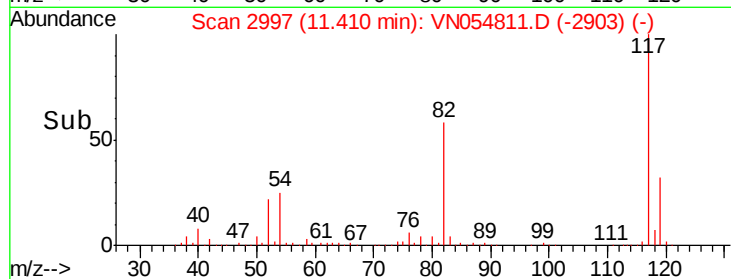
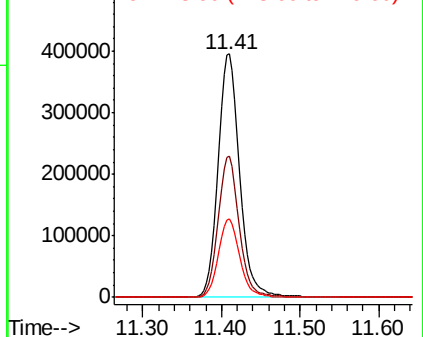
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 745433
Ion Ratio Lower Upper
117 100
82 57.9 40.0 60.0
119 32.1 25.8 38.6

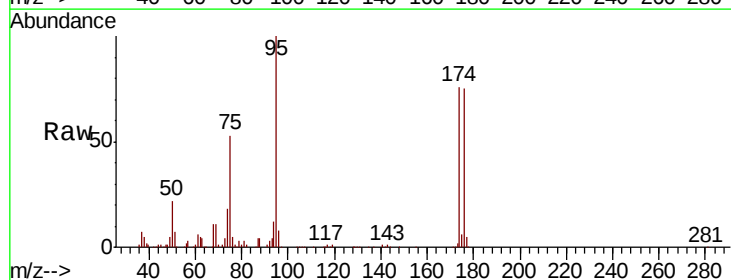


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

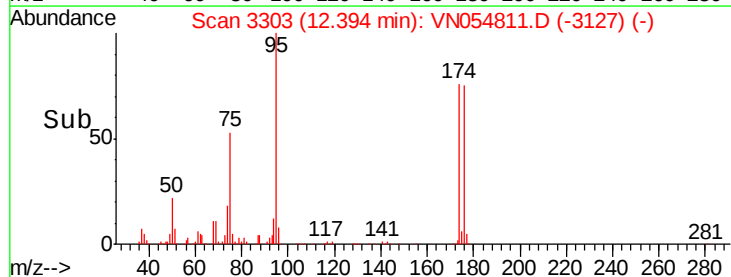
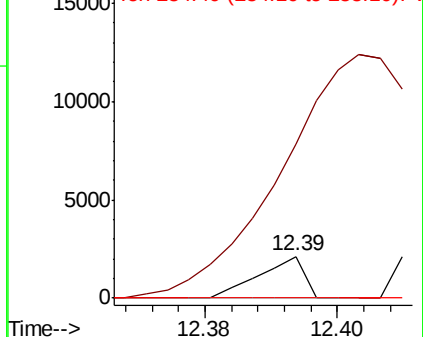


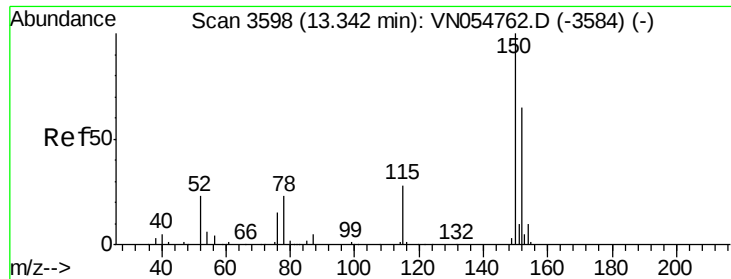
#71
Bromoform
Concen: 0.312 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

Tgt Ion:173 Resp: 1000
Ion Ratio Lower Upper
173 100
175 1714.0 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



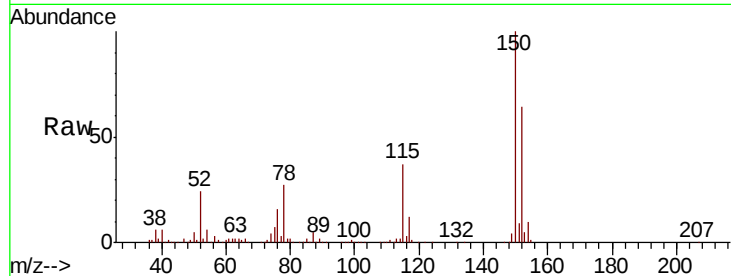


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.1	27.2	81.6
150	156.4	0.0	349.2

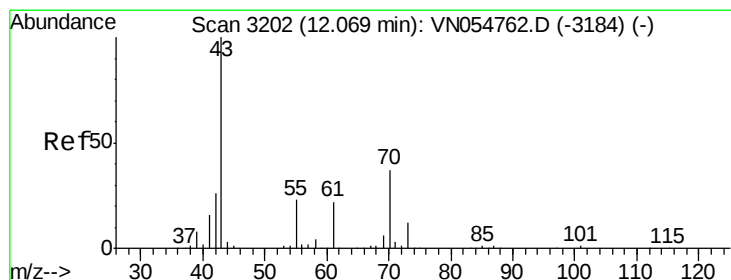
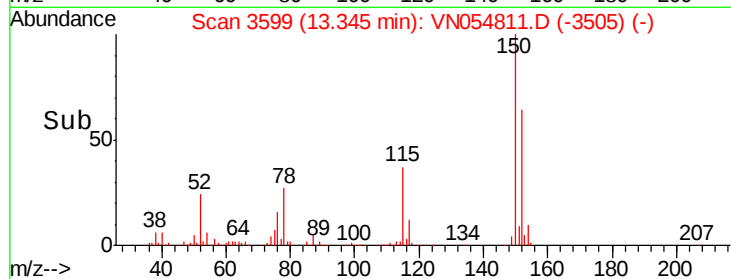
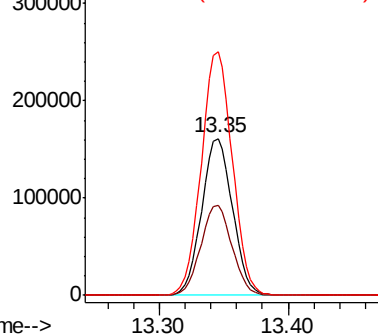


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

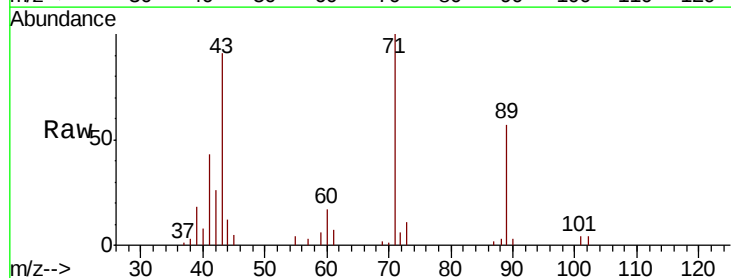
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 2.438 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN054811.D
Acq: 30 Mar 2019 19:05

Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.8	35.4	53.0#
55	4.9	19.8	29.6#
61	9.2	19.8	29.6#



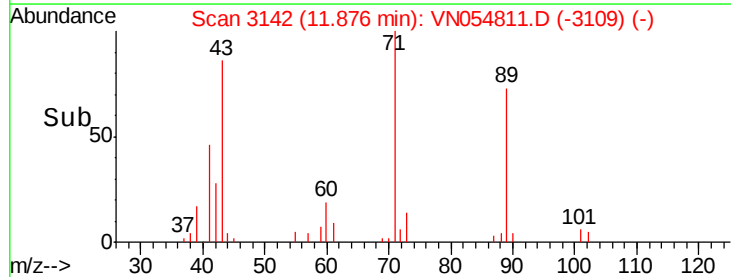
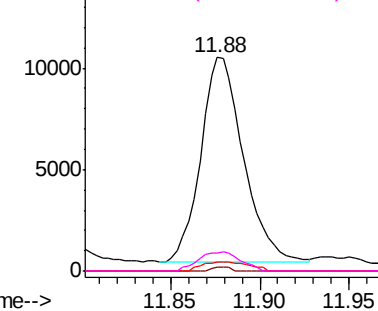
Abundance

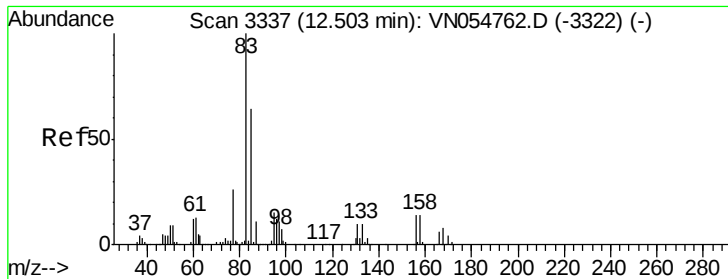
Ion 43.00 (42.70 to 43.70): VNO

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: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

Instrument :

MSVOA_N

ClientSampled :

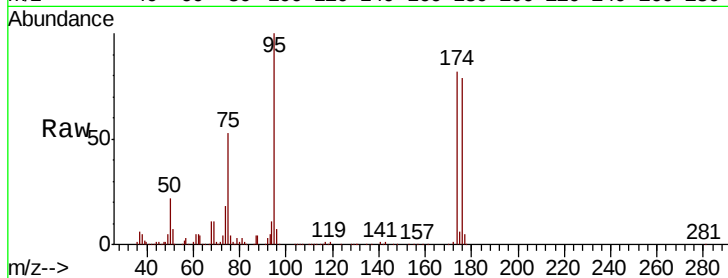
Tot Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

131 348.4 5.8 17.4#

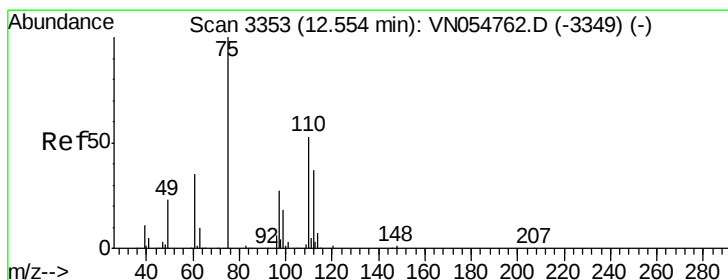
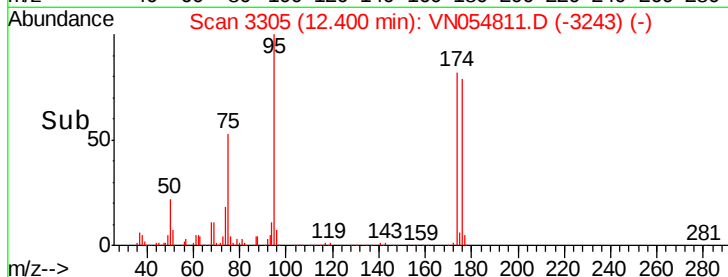
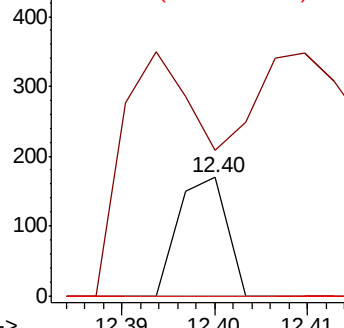
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 36.006 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054811.D

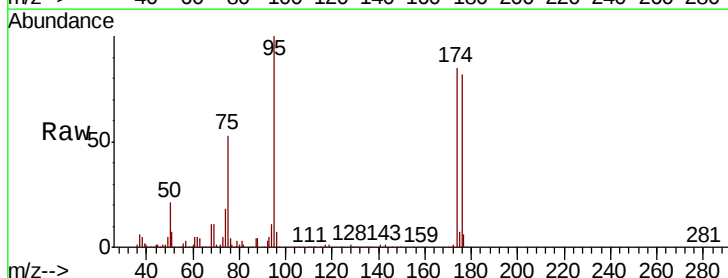
Acq: 30 Mar 2019 19:05

Tgt Ion: 75 Resp: 167548

Ion Ratio Lower Upper

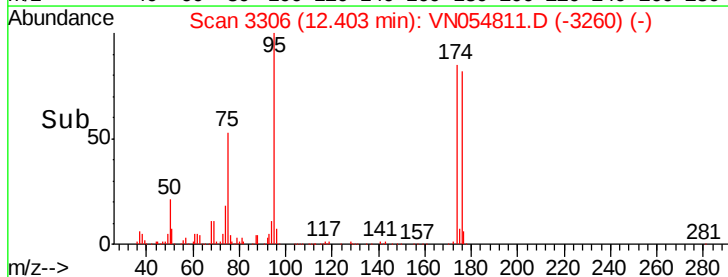
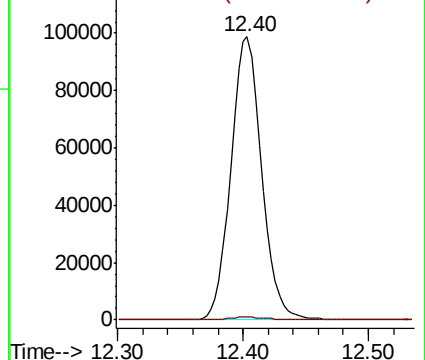
75 100

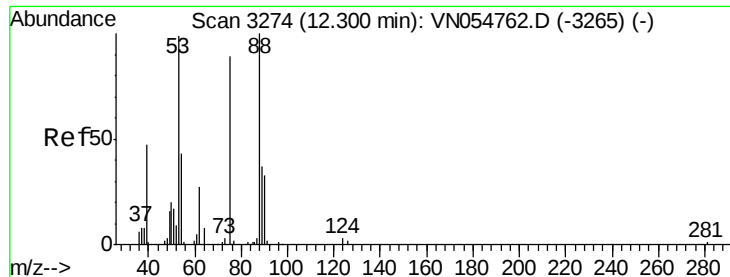
77 1.1 0.0 0.0#



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: 140.054 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

Instrument :

MSVOA_N

ClientSampled :

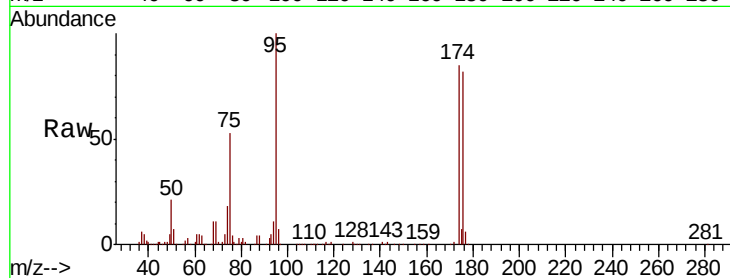
Tot Ion: 75 Resp: 167548

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

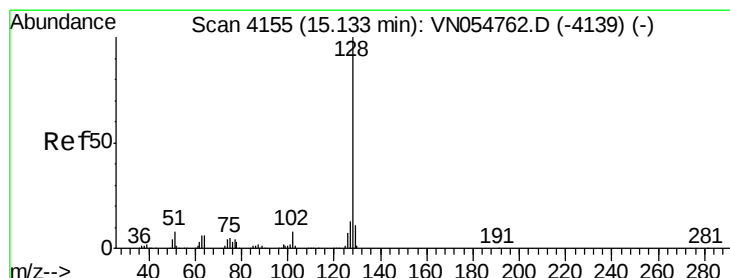
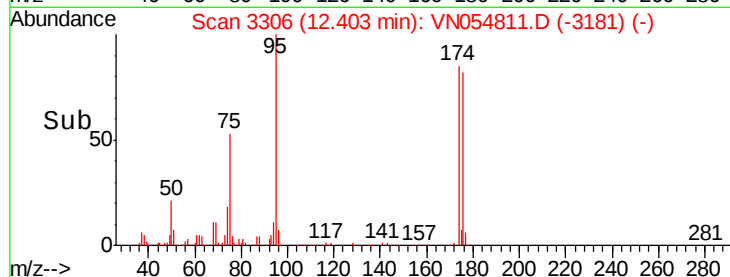
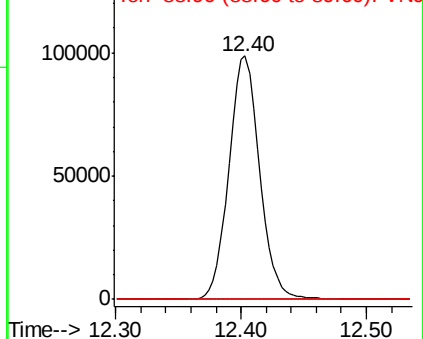
89 0.0 39.2 58.8#



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



#95

Naphthalene

Concen: 1.000 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054811.D

Acq: 30 Mar 2019 19:05

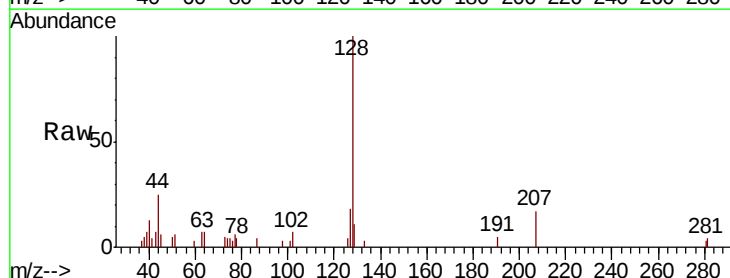
Tgt Ion:128 Resp: 9656

Ion Ratio Lower Upper

128 100

127 13.3 10.1 15.1

129 11.2 8.7 13.1



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

