

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054896.D
 Acq On : 2 Apr 2019 12:46
 Operator : JC/SP
 Sample : K2186-24
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 05:04:58 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

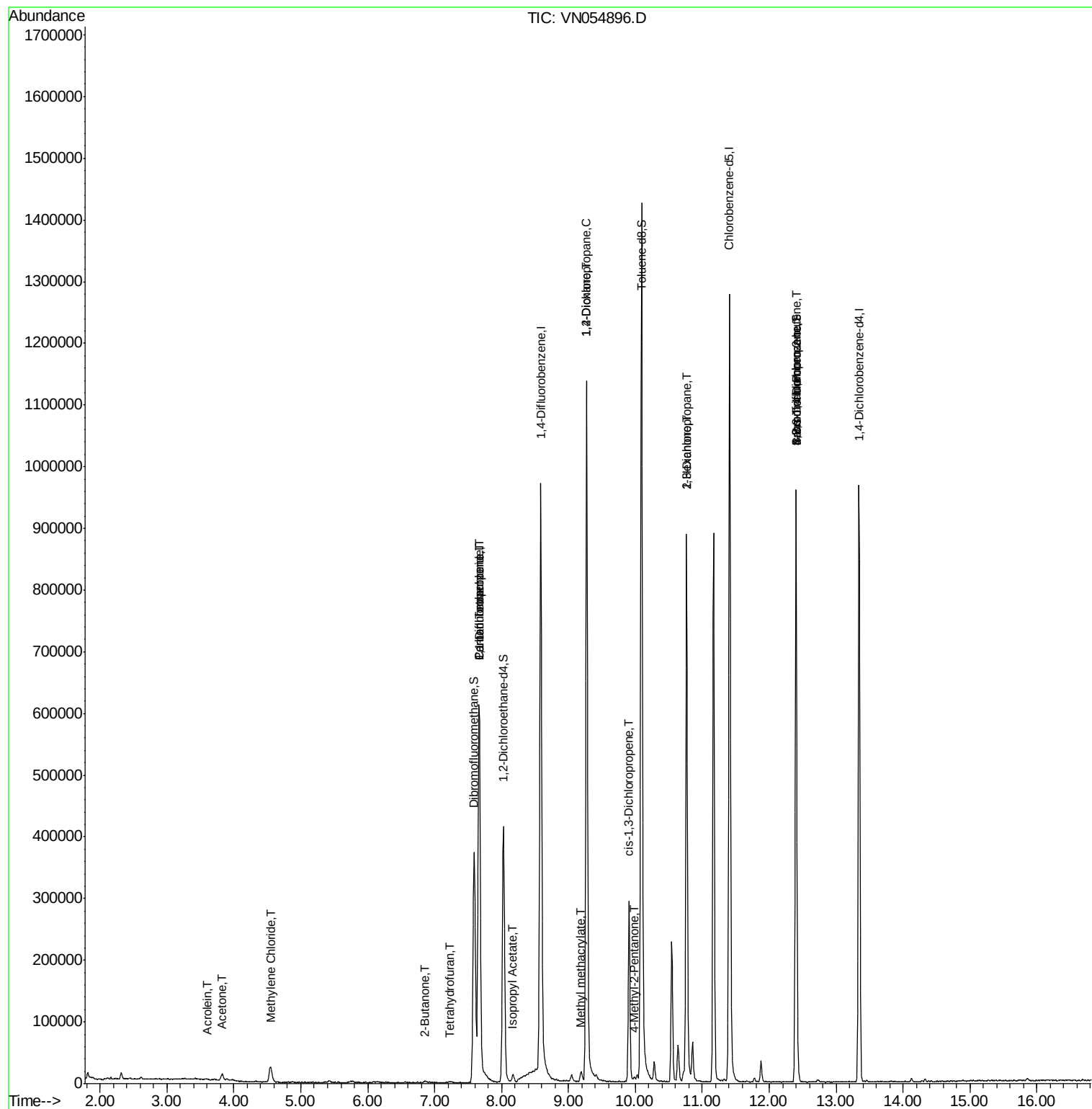
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	525142	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	871993	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	761747	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	260568	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	356354	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	
35) Dibromofluoromethane	7.59	113	277585	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
50) Toluene-d8	10.09	98	1066973	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
62) 4-Bromofluorobenzene	12.40	95	321378	44.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.42%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	328	Below Cal		84
13) Acrolein	3.61	56	364	1.104 ug/l		83
16) Acetone	3.83	43	17068	10.111 ug/l #		83
18) Methyl Acetate	4.33	43	1876	Below Cal		92
20) Methylene Chloride	4.55	84	17086	2.869 ug/l #		87
25) 2-Butanone	6.85	43	1045	0.419 ug/l #		85
29) Tetrahydrofuran	7.21	42	402	0.232 ug/l #		36
31) Cyclohexane	7.67	56	11047	Below Cal #		1
36) 1,1-Dichloropropene	7.66	75	41020	5.048 ug/l #		48
38) Carbon Tetrachloride	7.67	117	49443	6.265 ug/l #		16
43) Isopropyl Acetate	8.17	43	14493	1.497 ug/l #		96
45) 1,2-Dichloropropane	9.27	63	1485	0.224 ug/l #		43
48) Methyl methacrylate	9.19	41	6843	1.304 ug/l #		11
49) 1,4-Dioxane	9.27	88	120	2.304 ug/l #		1
51) 4-Methyl-2-Pentanone	9.98	43	5095	0.936 ug/l #		78
54) cis-1,3-Dichloropropene	9.90	75	47489	5.453 ug/l #		74
57) 1,3-Dichloropropane	10.77	76	8808	0.996 ug/l #		43
59) 2-Hexanone	10.76	43	142472	40.886 ug/l #		48
71) Bromoform	12.40	173	3314	1.013 ug/l #		1
75) 1,1,2,2-Tetrachloroethane	12.39	83	155	Below Cal #		1
76) 1,2,3-Trichloropropane	12.40	75	167824	37.074 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	167824	144.210 ug/l #		11
83) tert-Butylbenzene	13.00	119	100	Below Cal #		28
94) Hexachlorobutadiene	15.00	225	102	Below Cal #		19

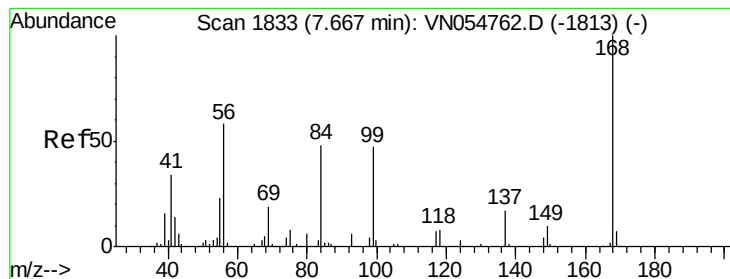
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 30 00:48:18 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

Instrument :

MSVOA_N

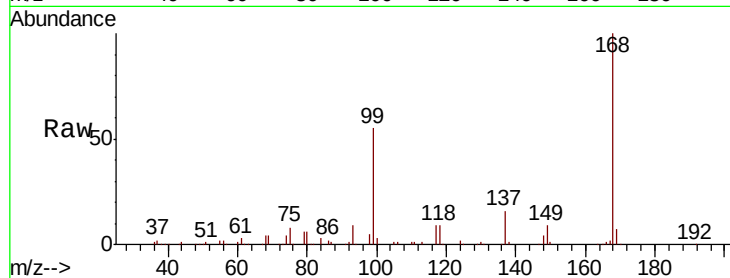
ClientSampleId :

Tot Ion:168 Resp: 525142

Ion Ratio Lower Upper

168 100

99 55.1 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054896.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054896.D (-1740) (-)

7.66

250000

200000

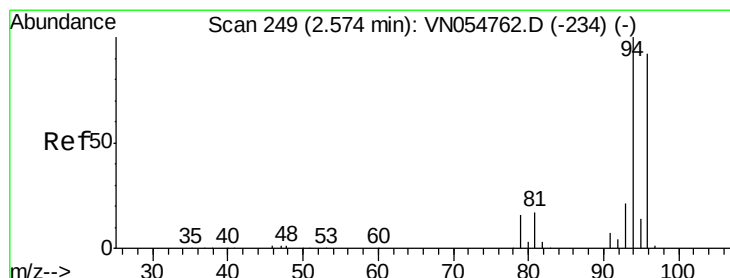
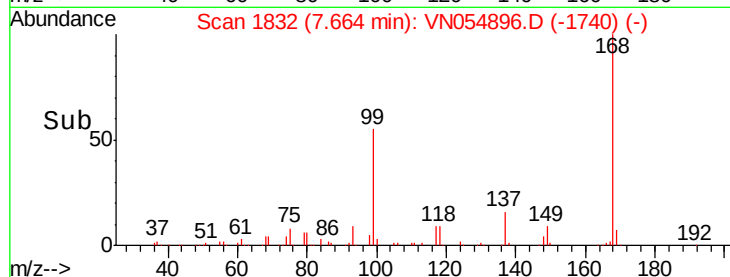
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054896.D

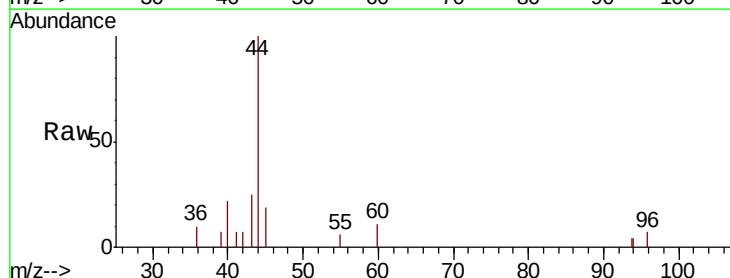
Acq: 2 Apr 2019 12:46

Tgt Ion: 94 Resp: 328

Ion Ratio Lower Upper

94 100

96 80.2 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN054896.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054896.D (-156) (-)

2.58

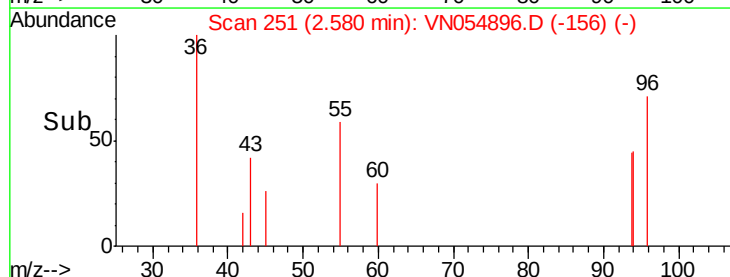
300

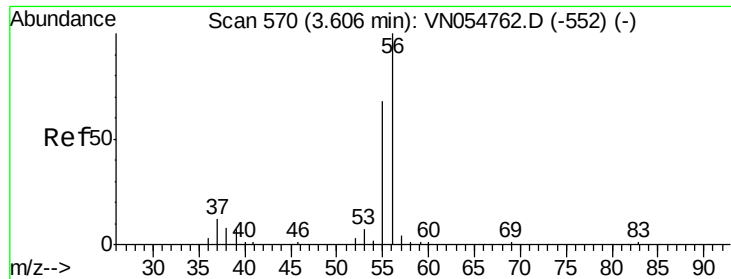
200

100

0

Time--> 2.56 2.58 2.60





#13

Acrolein

Concen: 1.104 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

Instrument :

MSVOA_N

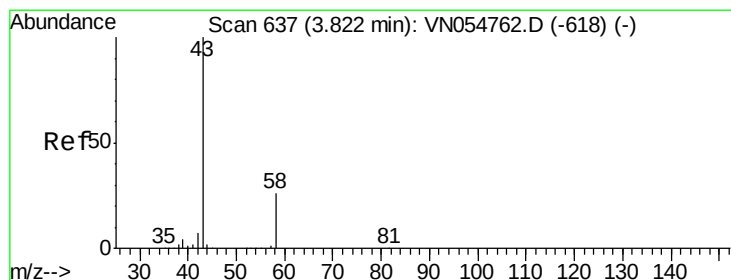
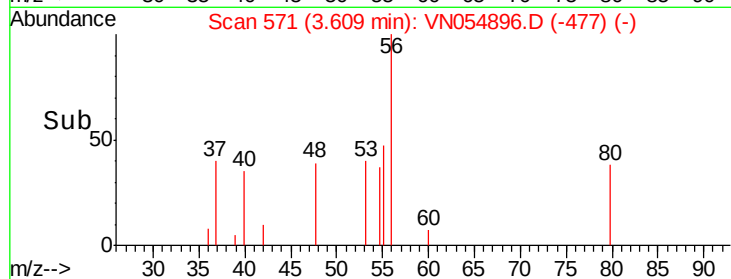
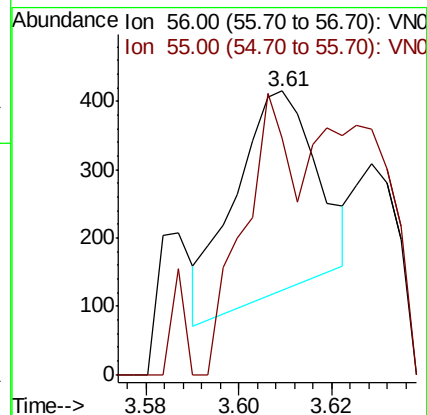
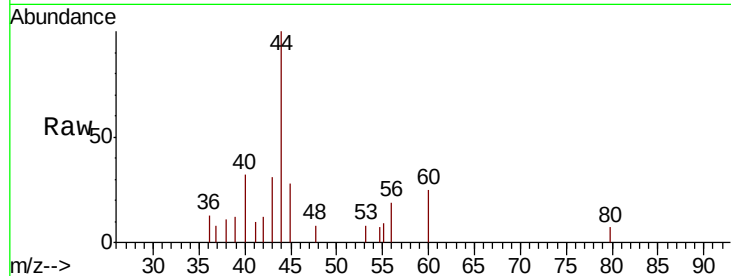
ClientSampled :

Tot Ion: 56 Resp: 364

Ion Ratio Lower Upper

56 100

55 84.6 56.7 85.1



#16

Acetone

Concen: 10.111 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054896.D

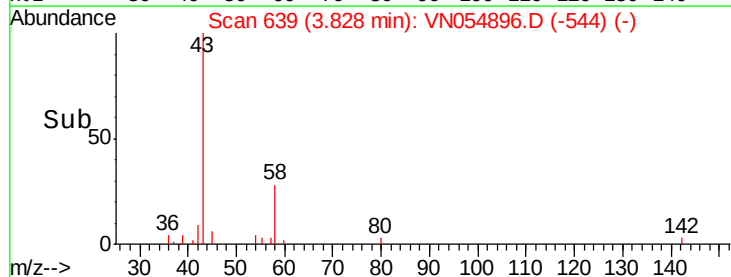
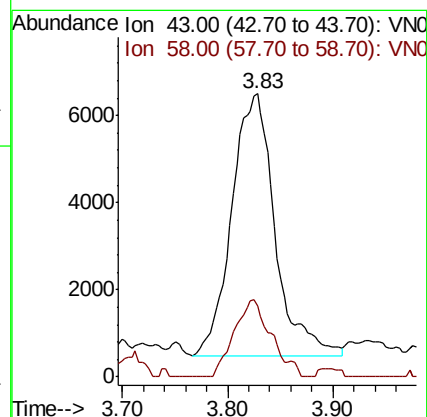
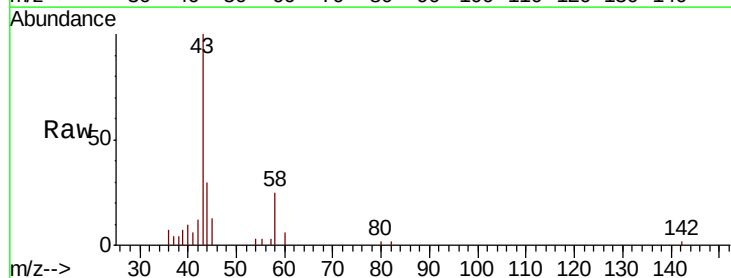
Acq: 2 Apr 2019 12:46

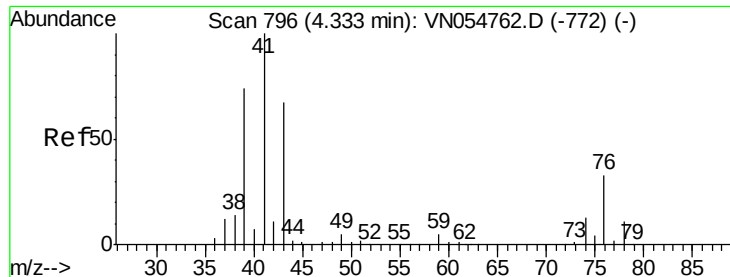
Tgt Ion: 43 Resp: 17068

Ion Ratio Lower Upper

43 100

58 27.1 29.9 44.9#

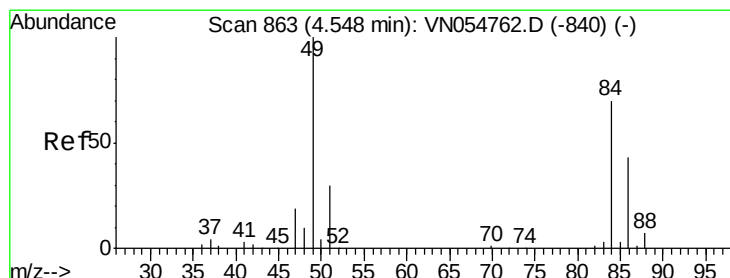
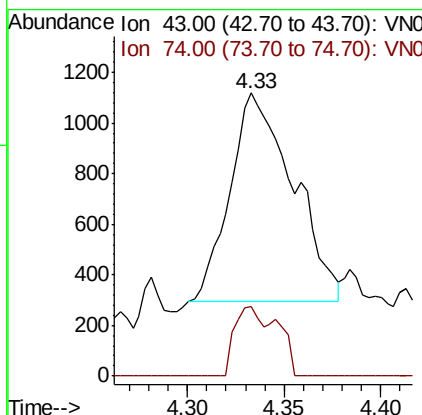
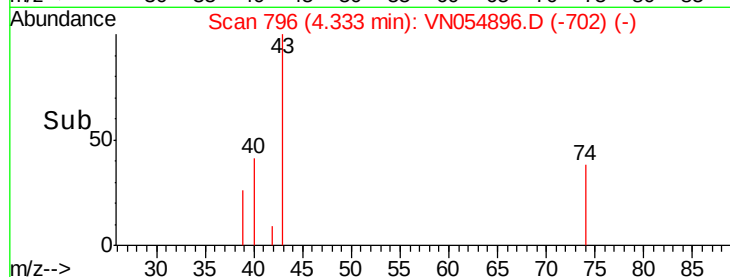
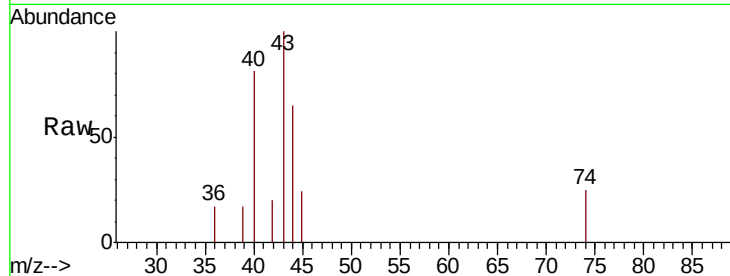




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

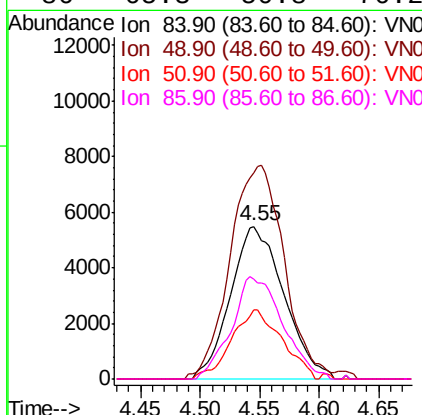
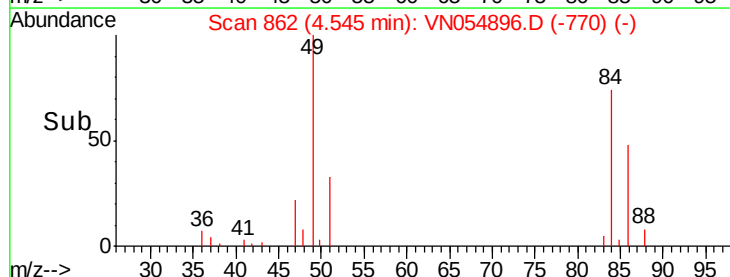
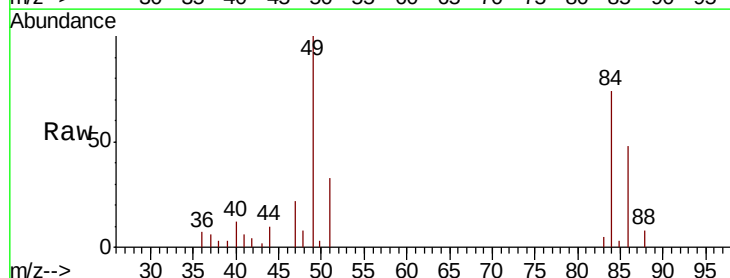
Instrument :
MSVOA_N
ClientSampled :

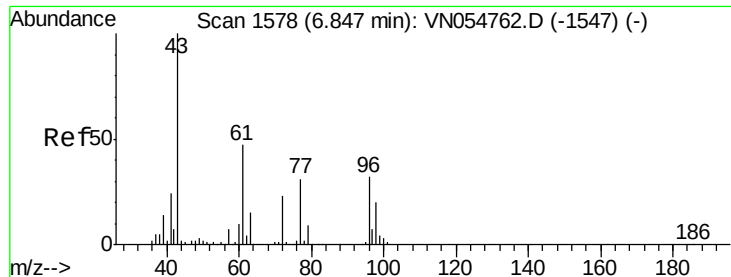
Tot Ion: 43 Resp: 1876
Ion Ratio Lower Upper
43 100
74 22.2 20.8 31.2



#20
Methylene Chloride
Concen: 2.869 ug/l
RT: 4.55 min Scan# 862
Delta R.T. -0.00 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Tgt Ion: 84 Resp: 17086
Ion Ratio Lower Upper
84 100
49 132.1 89.7 134.5
51 45.2 28.2 42.4#
86 65.3 50.8 76.2

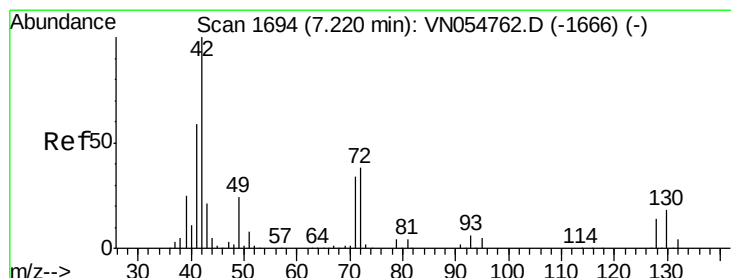
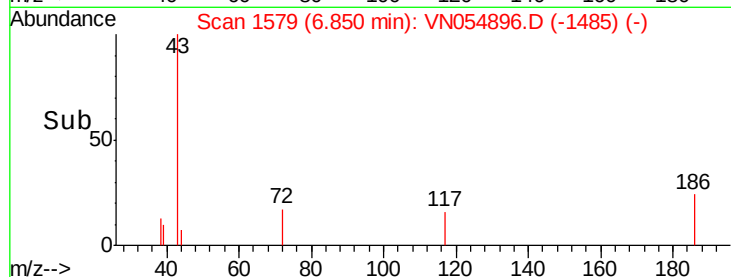
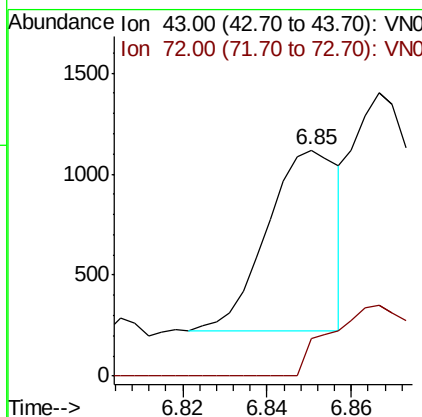
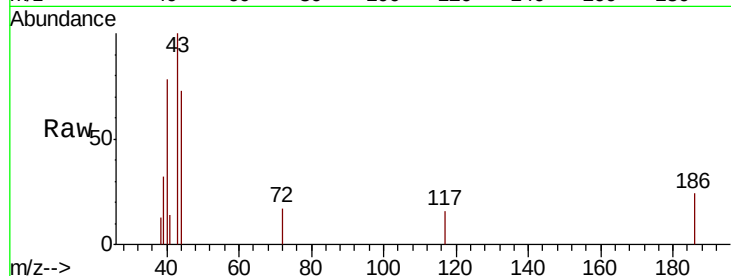




#25
2-Butanone
Concen: 0.419 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.00 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

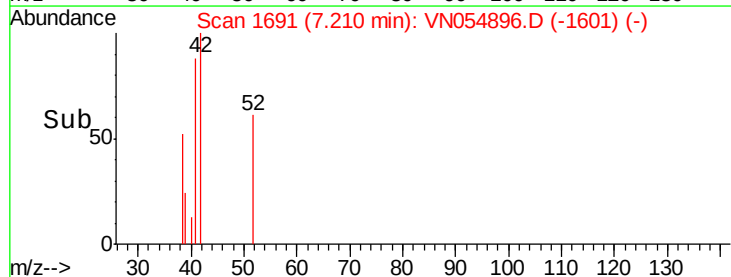
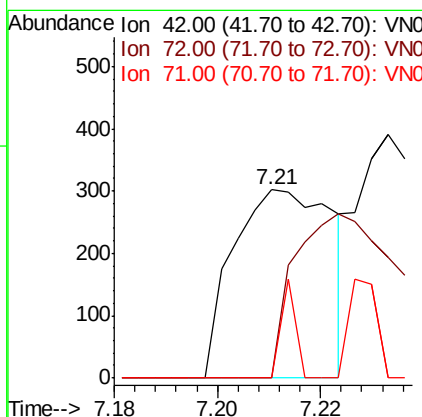
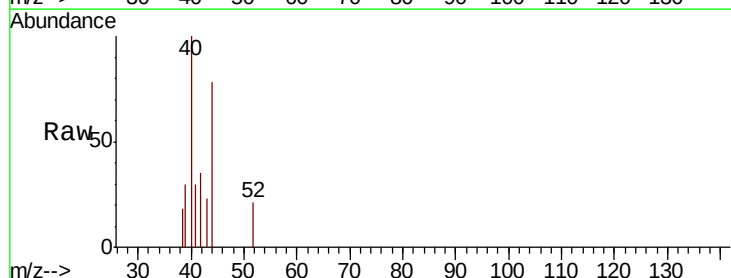
Instrument :
MSVOA_N
ClientSampled :

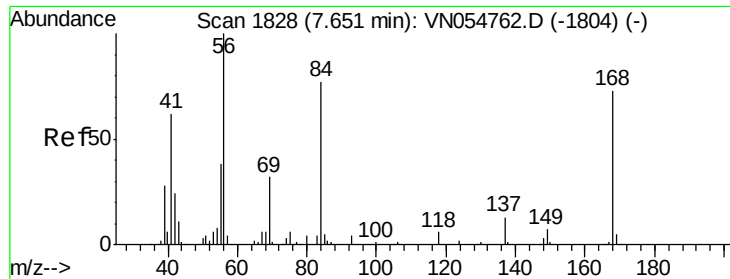
Tot Ion: 43 Resp: 1045
Ion Ratio Lower Upper
43 100
72 20.8 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.232 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.01 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Tgt Ion: 42 Resp: 402
Ion Ratio Lower Upper
42 100
72 0.0 37.8 56.6#
71 7.7 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

Instrument :

MSVOA_N

ClientSampleId :

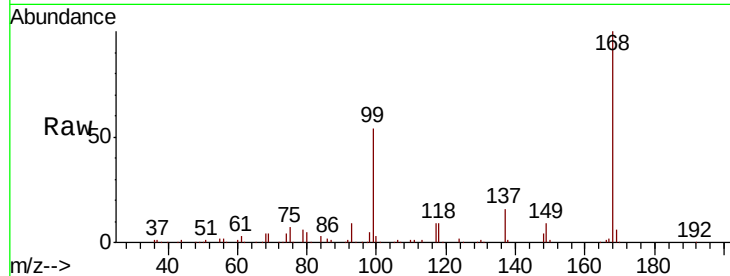
Tot Ion: 56 Resp: 11047

Ion Ratio Lower Upper

56 100

69 185.9 27.8 41.6#

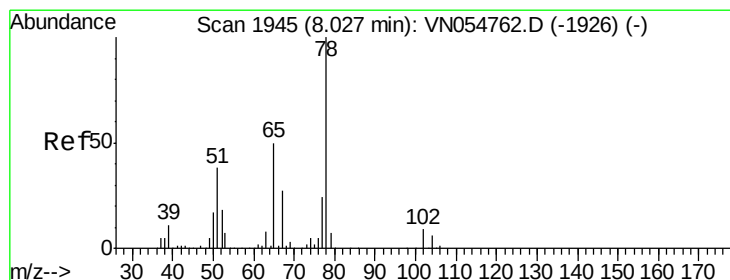
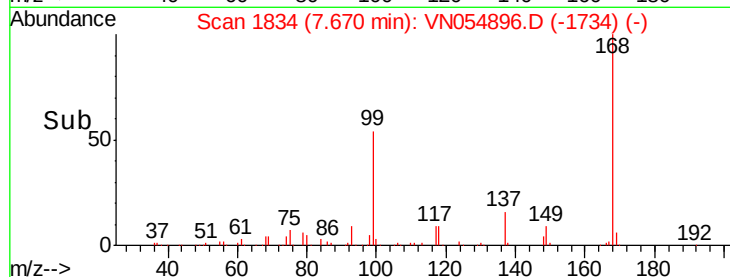
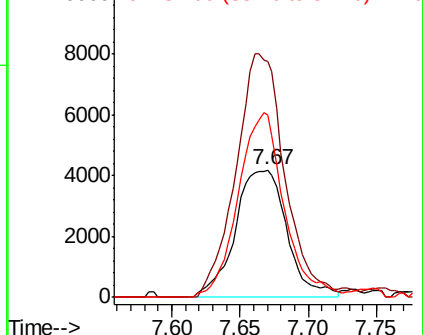
84 143.5 74.6 111.8#



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: 50.339 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054896.D

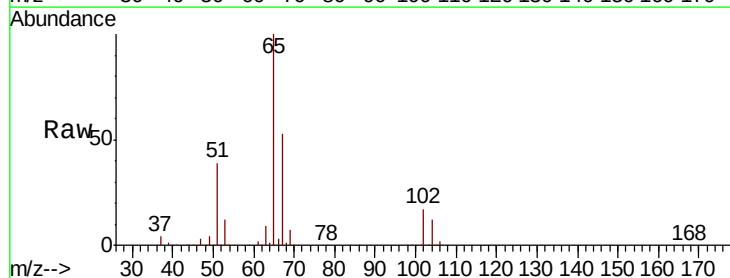
Acq: 2 Apr 2019 12:46

Tgt Ion: 65 Resp: 356354

Ion Ratio Lower Upper

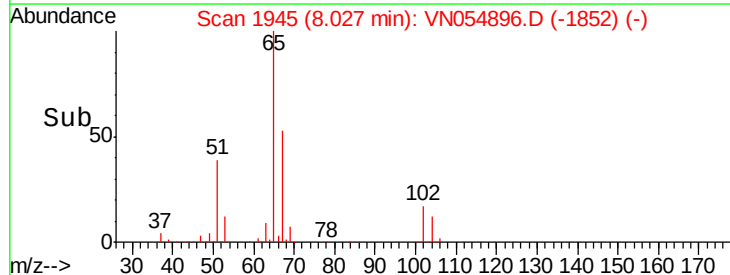
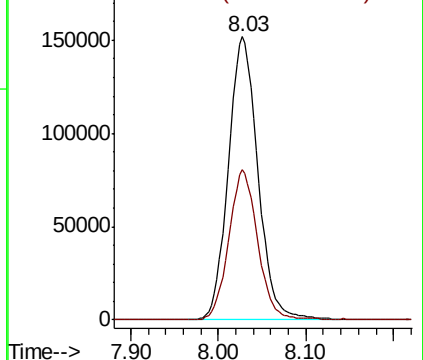
65 100

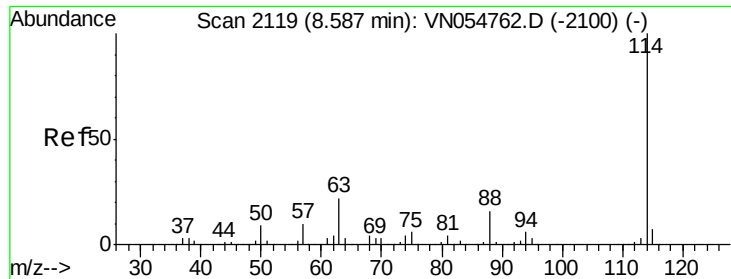
67 51.5 0.0 104.6



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: VN054896.D

Acq: 2 Apr 2019 12:46

Instrument :

MSVOA_N

ClientSampleId :

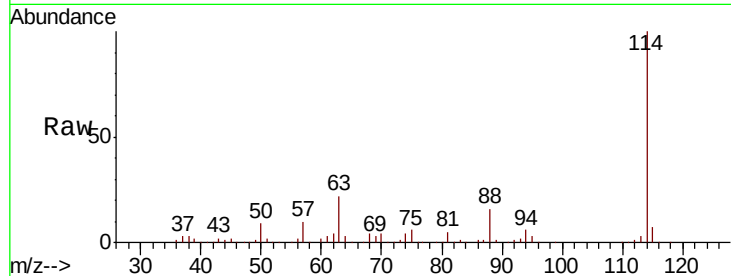
Tot Ion:114 Resp: 871993

Ion Ratio Lower Upper

114 100

63 21.9 0.0 35.2

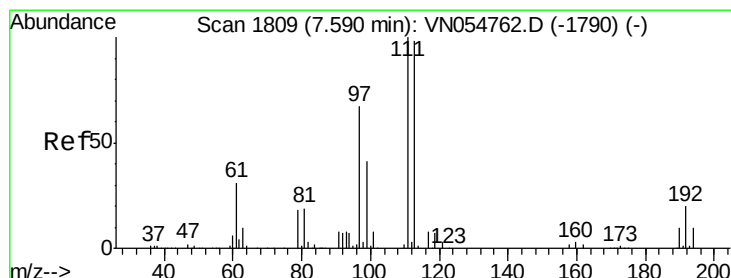
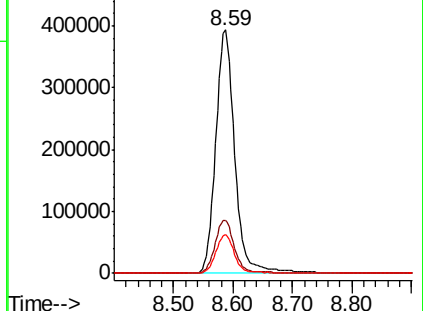
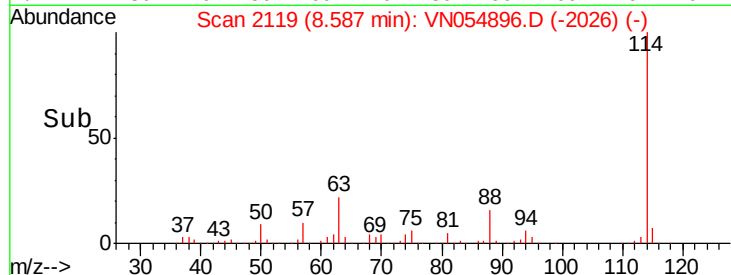
88 15.9 0.0 30.2



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: 47.748 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

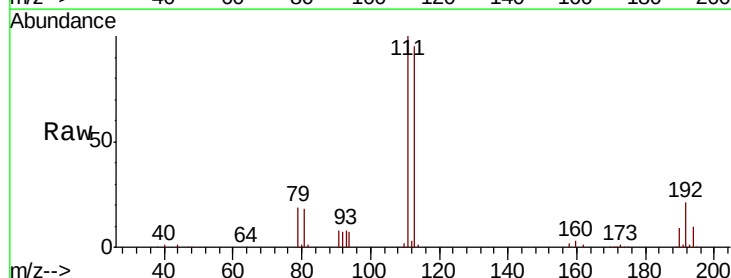
Tgt Ion:113 Resp: 277585

Ion Ratio Lower Upper

113 100

111 104.1 82.2 123.4

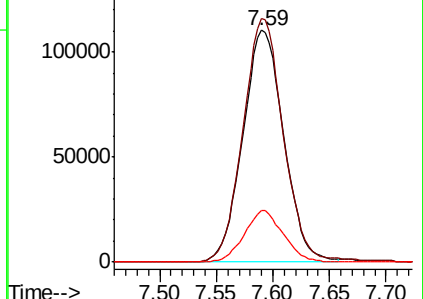
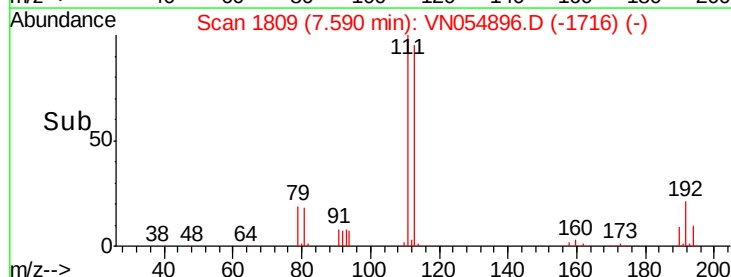
192 21.2 19.2 28.8

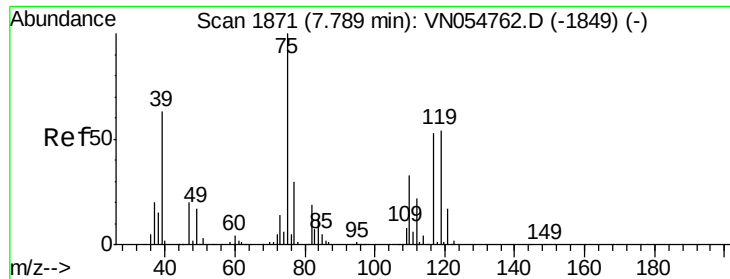


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

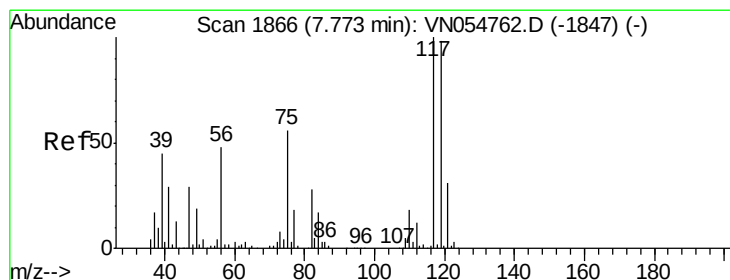
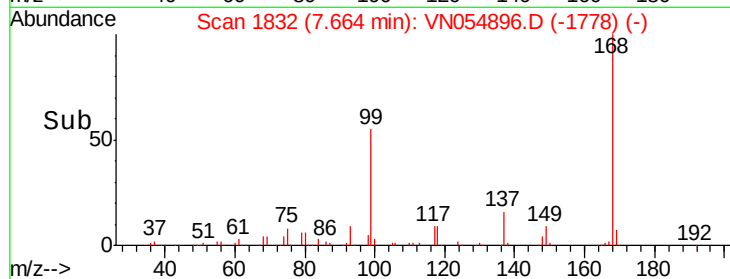
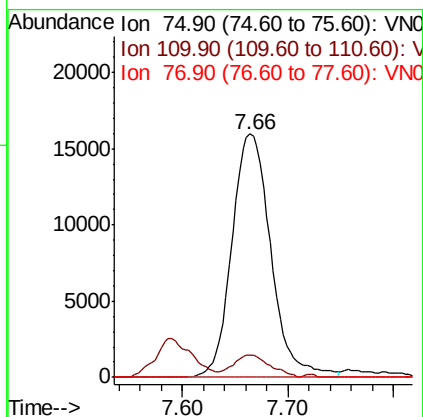
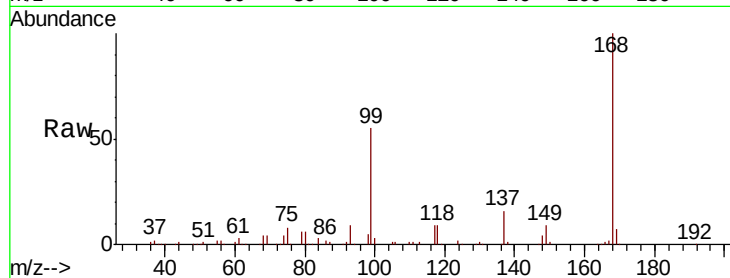




#36
 1,1-Dichloropropene
 Concen: 5.048 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054896.D
 Acq: 2 Apr 2019 12:46

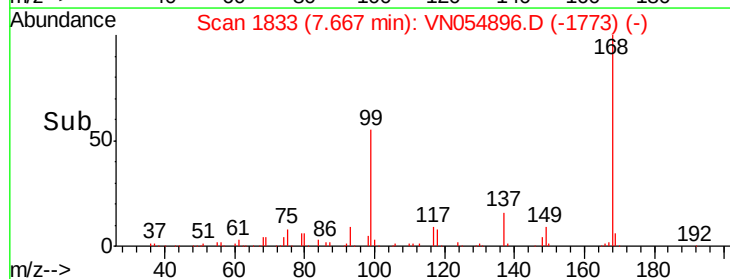
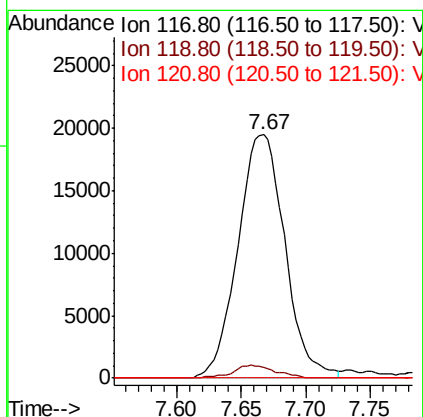
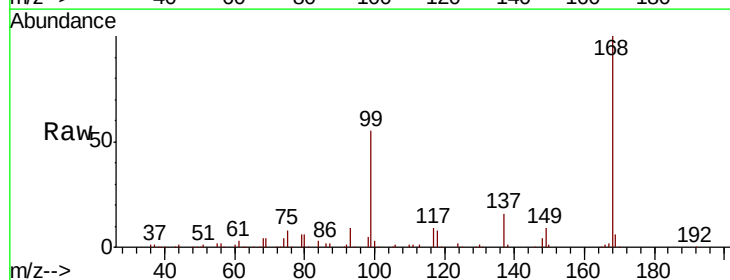
Instrument :
 MSVOA_N
 ClientSampleId :

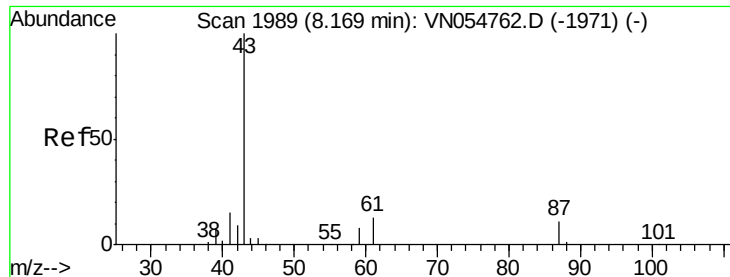
Tot Ion: 75 Resp: 41020
 Ion Ratio Lower Upper
 75 100
 110 8.7 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.265 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054896.D
 Acq: 2 Apr 2019 12:46

Tgt Ion: 117 Resp: 49443
 Ion Ratio Lower Upper
 117 100
 119 4.3 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 1.497 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

Instrument :

MSVOA_N

ClientSampleId :

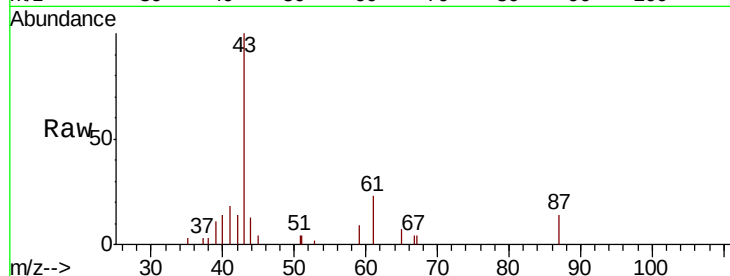
Tot Ion: 43 Resp: 14493

Ion Ratio Lower Upper

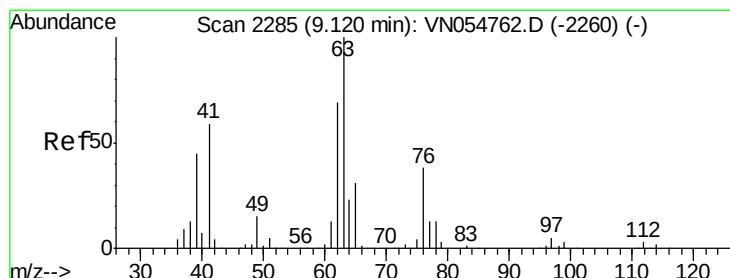
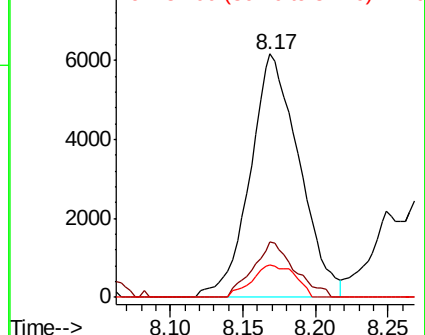
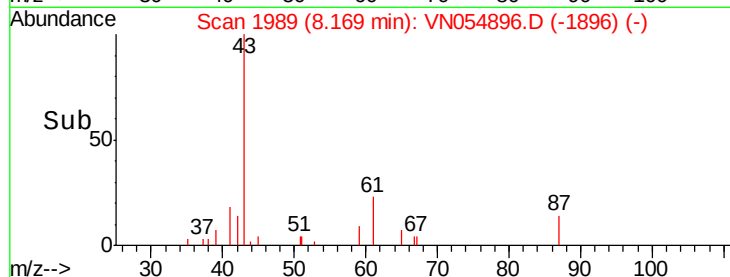
43 100

61 19.3 15.8 23.8

87 11.6 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN054896.D (-1896) (-)



#45

1,2-Dichloropropane

Concen: 0.224 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN054896.D

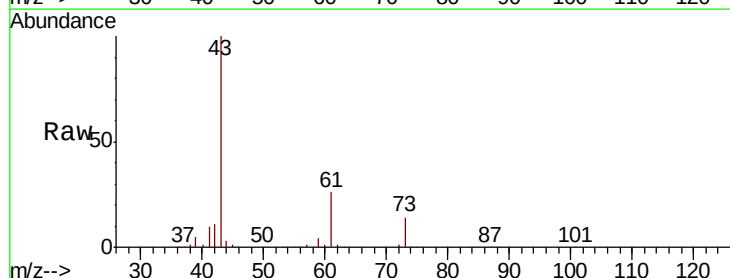
Acq: 2 Apr 2019 12:46

Tgt Ion: 63 Resp: 1485

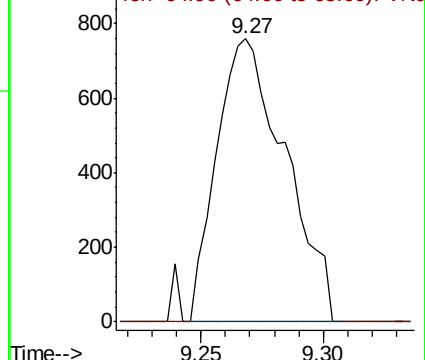
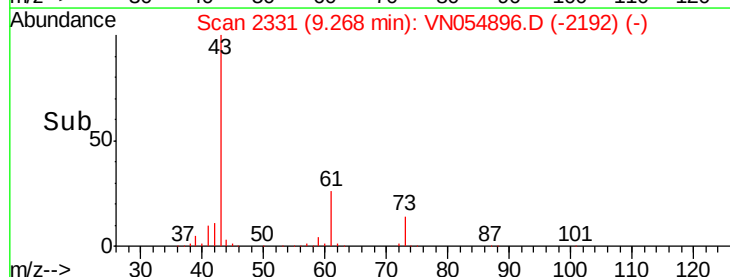
Ion Ratio Lower Upper

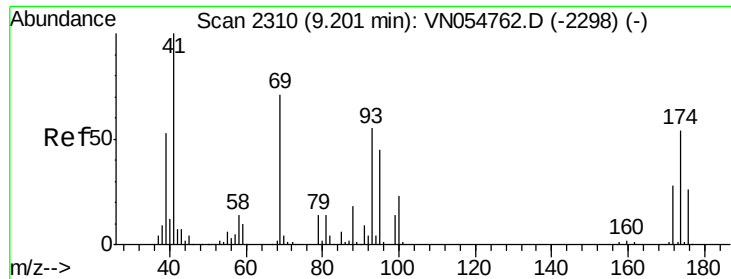
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN054896.D (-2192) (-)

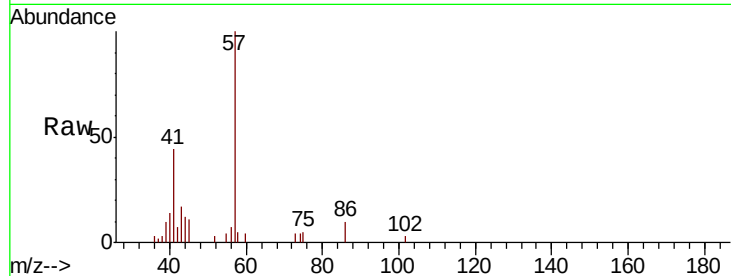




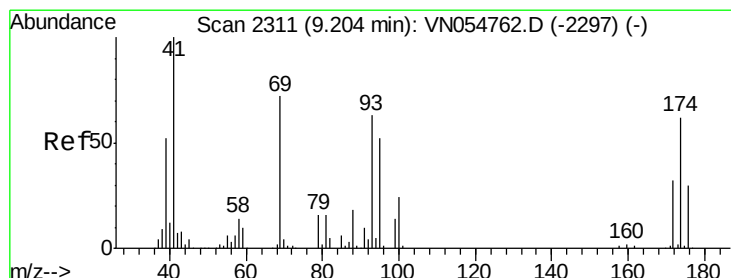
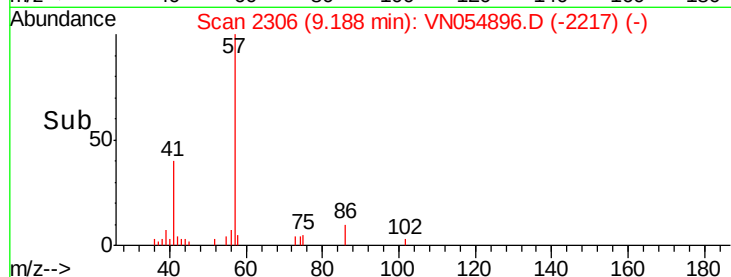
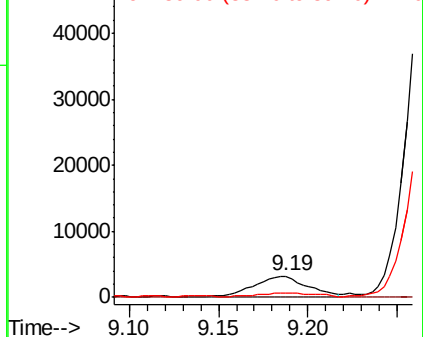
#48
Methyl methacrylate
Concen: 1.304 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.01 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 6843
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#

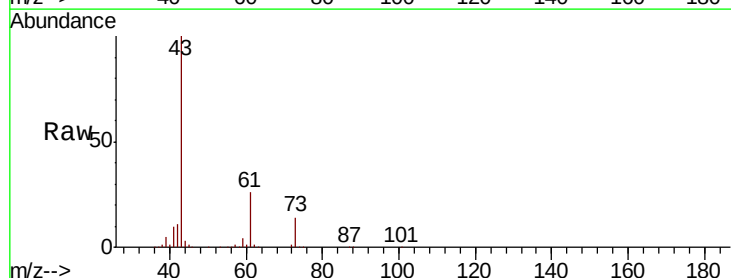


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

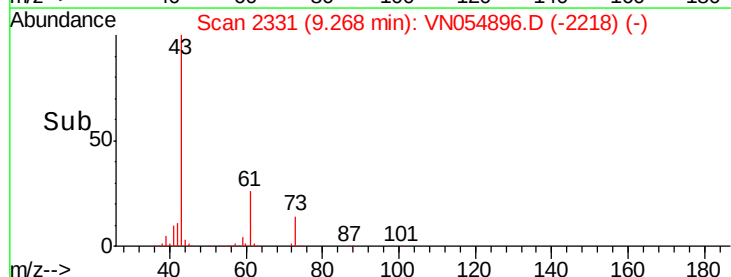
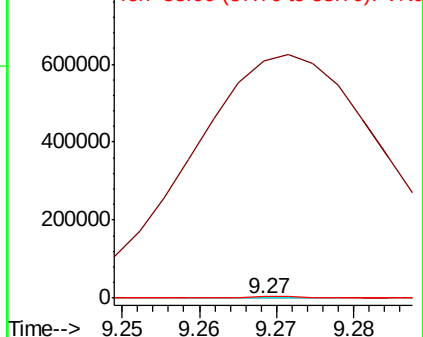


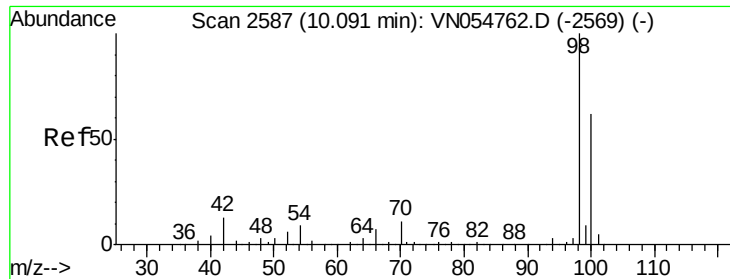
#49
1,4-Dioxane
Concen: 2.304 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.06 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Tgt Ion: 88 Resp: 120
Ion Ratio Lower Upper
88 100
43 1000084.2 24.1 36.1#
58 4676.7 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 49.366 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

Instrument :

MSVOA_N

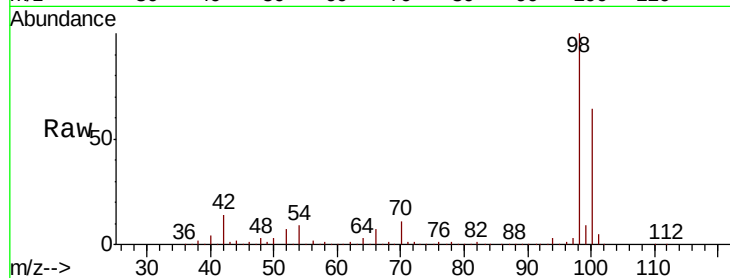
ClientSampled :

Tot Ion: 98 Resp: 1066973

Ion Ratio Lower Upper

98 100

100 64.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

600000

500000

400000

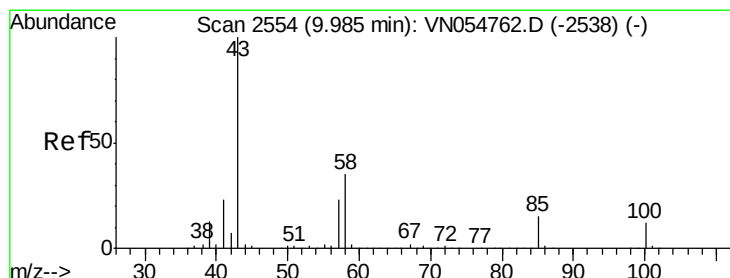
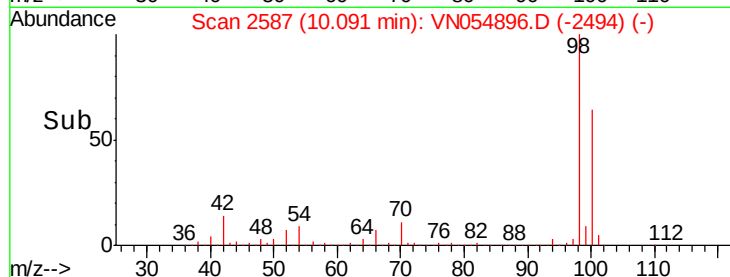
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.936 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.01 min

Lab File: VN054896.D

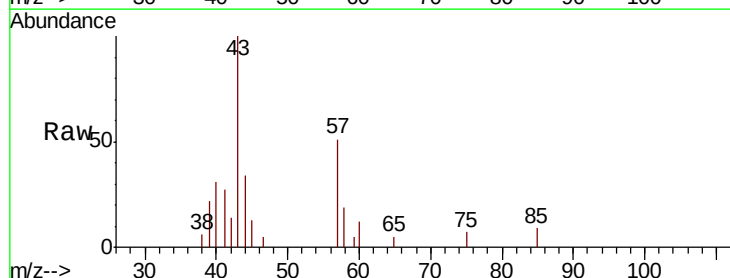
Acq: 2 Apr 2019 12:46

Tgt Ion: 43 Resp: 5095

Ion Ratio Lower Upper

43 100

58 25.9 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

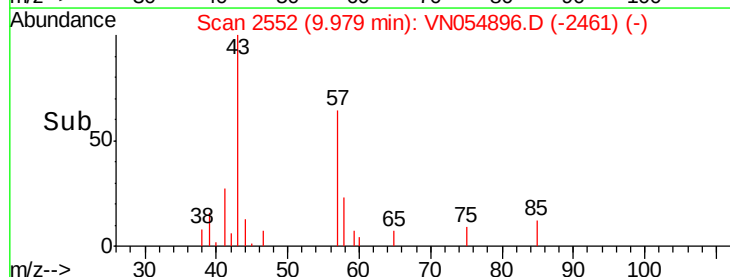
6000

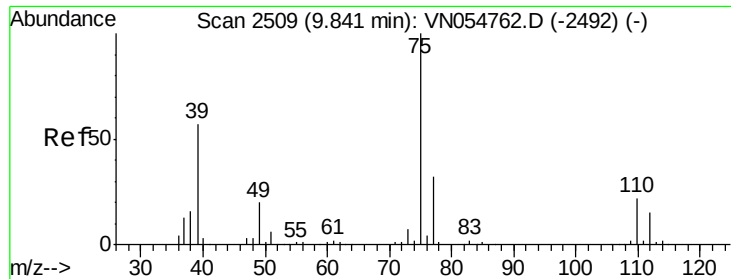
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.453 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

Instrument :
MSVOA_N
ClientSampleId :

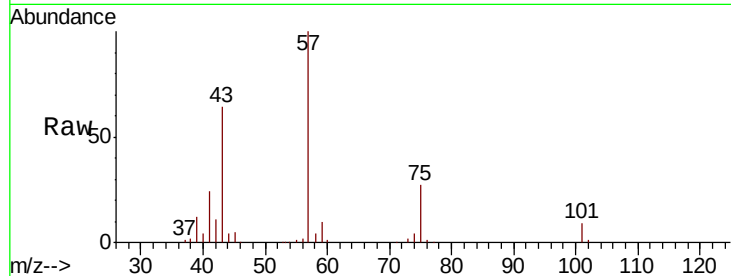
Tot Ion: 75 Resp: 47489

Ion Ratio Lower Upper

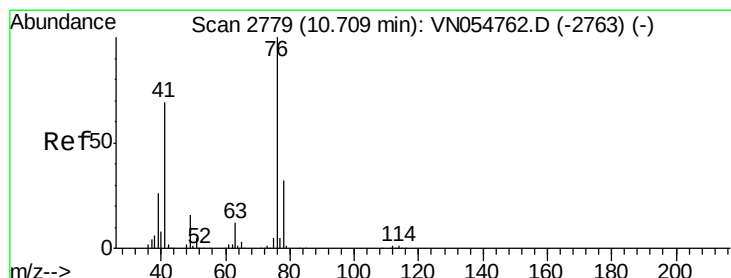
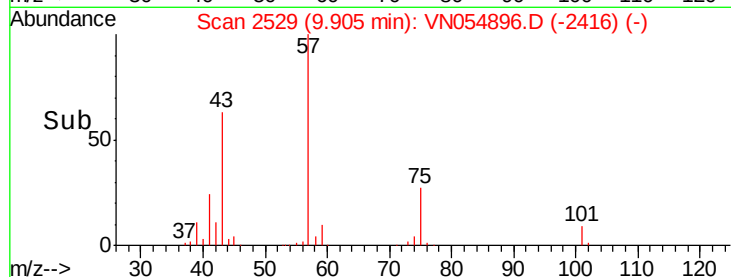
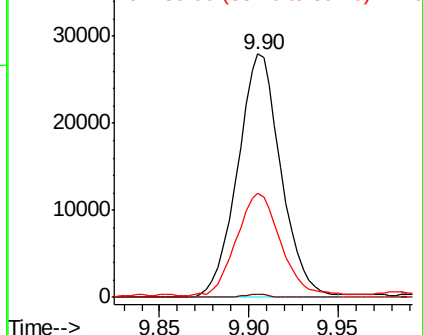
75 100

77 1.2 25.4 38.0#

39 41.9 37.2 55.8



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.996 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054896.D

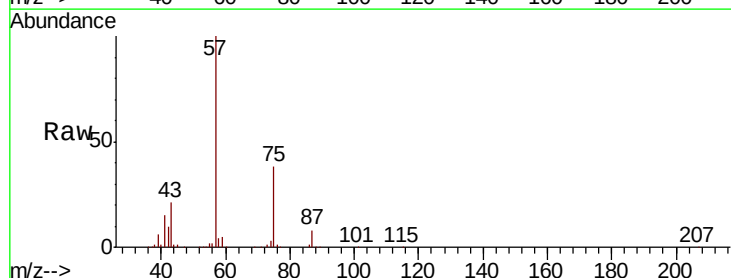
Acq: 2 Apr 2019 12:46

Tgt Ion: 76 Resp: 8808

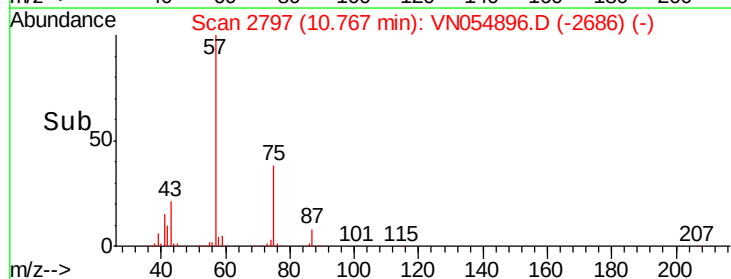
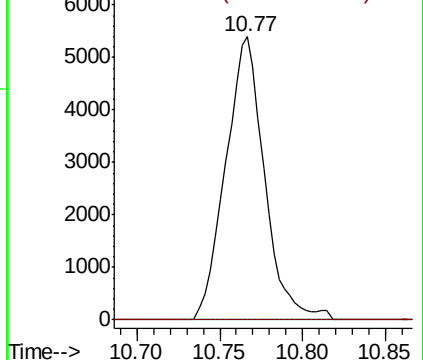
Ion Ratio Lower Upper

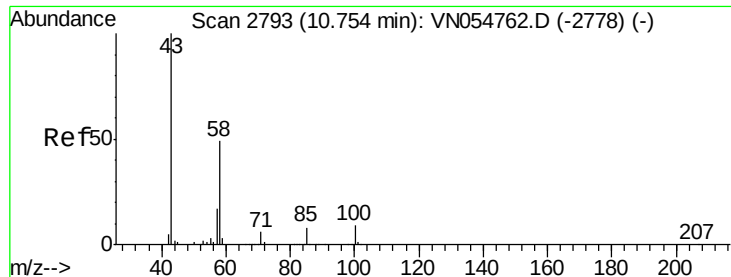
76 100

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

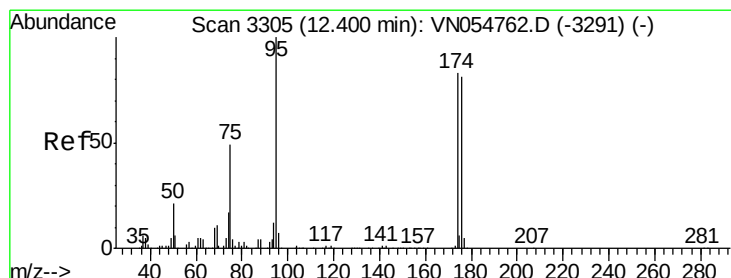
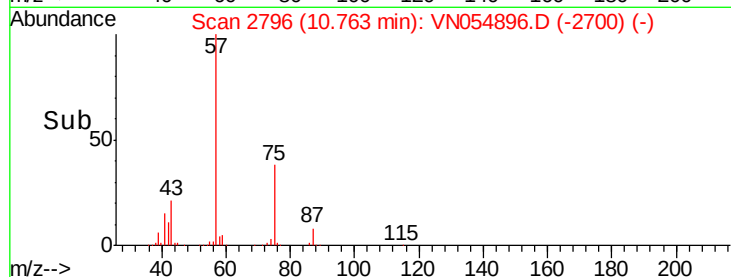
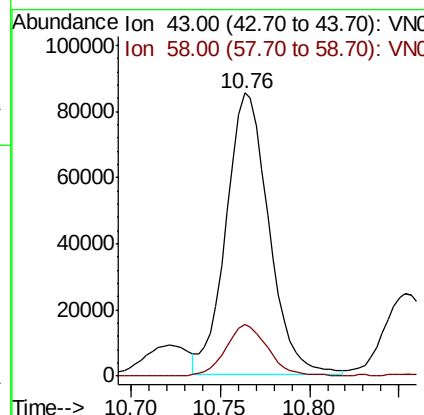
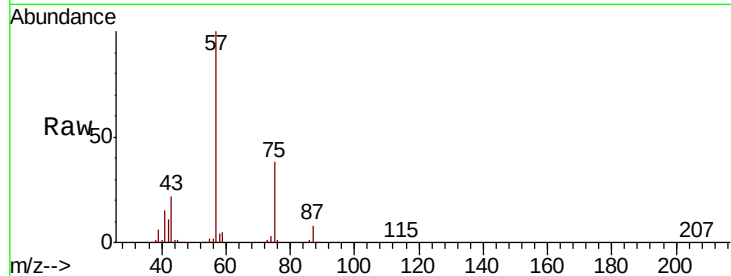




#59
2-Hexanone
Concen: 40.886 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

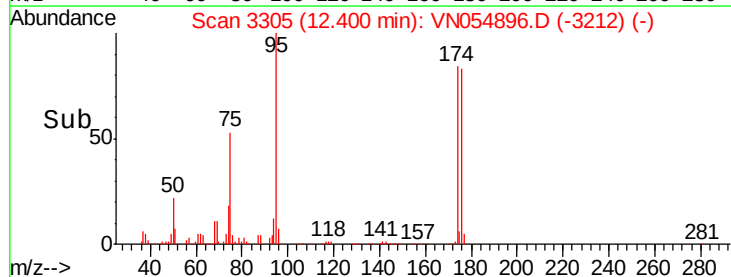
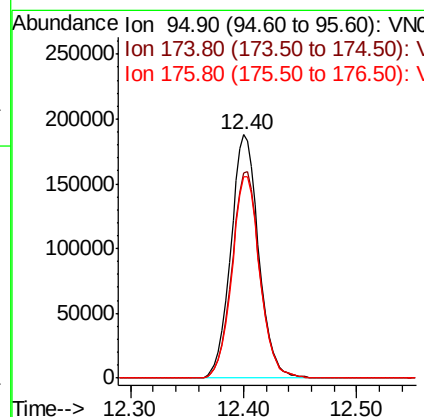
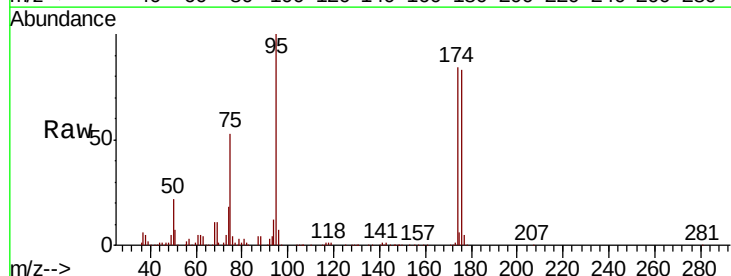
Instrument :
MSVOA_N
ClientSampleId :

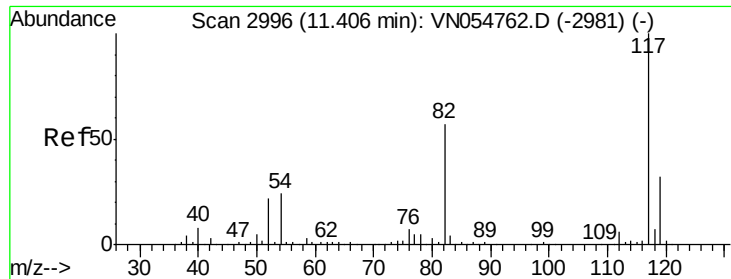
Tot Ion: 43 Resp: 142472
Ion Ratio Lower Upper
43 100
58 18.3 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 44.710 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Tgt Ion: 95 Resp: 321378
Ion Ratio Lower Upper
95 100
174 85.1 0.0 191.0
176 82.9 0.0 187.4

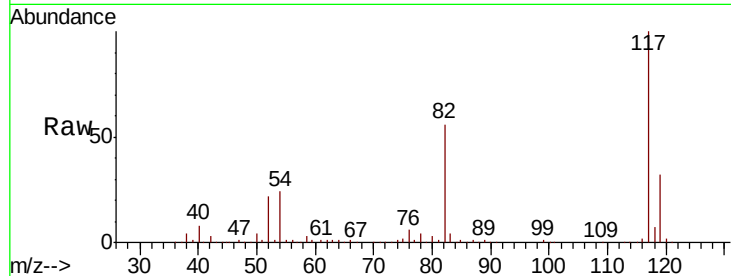




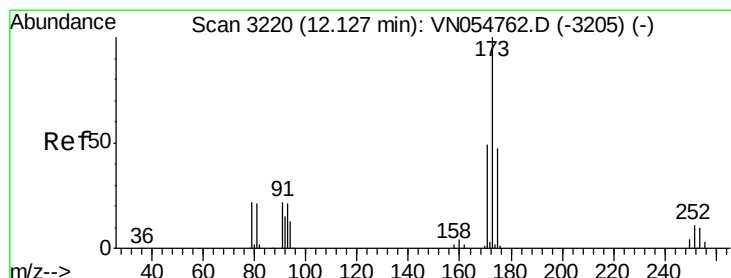
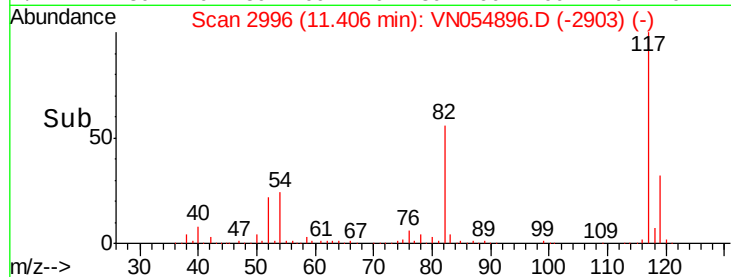
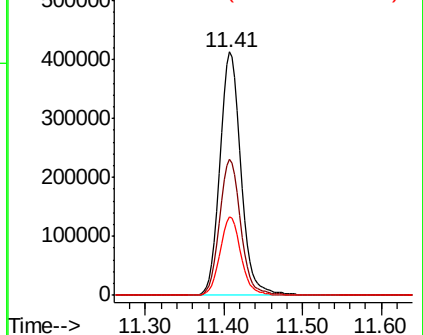
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 761747
Ion Ratio Lower Upper
117 100
82 55.7 40.0 60.0
119 32.0 25.8 38.6

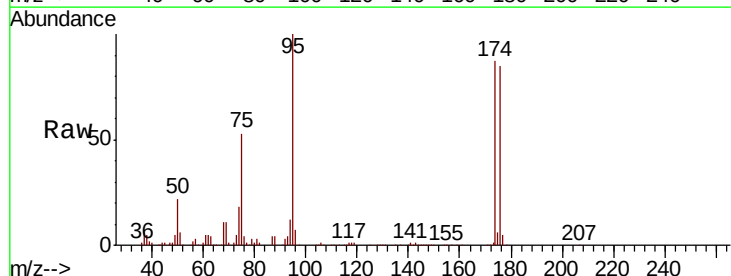


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

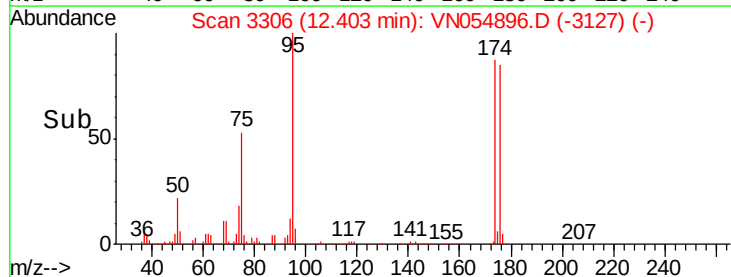
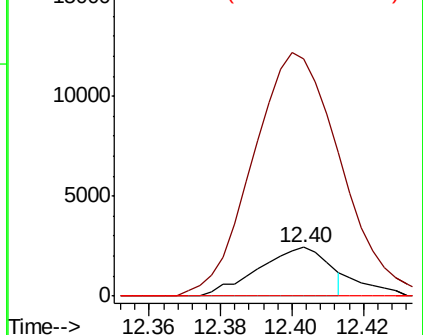


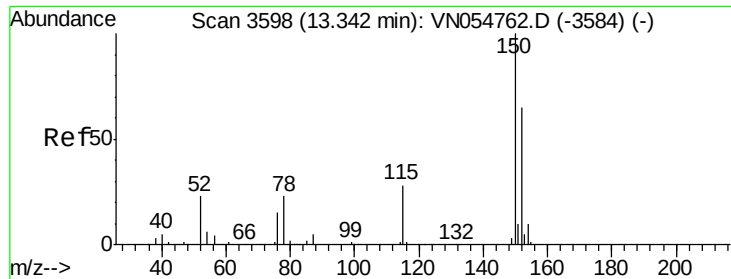
#71
Bromoform
Concen: 1.013 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Tgt Ion:173 Resp: 3314
Ion Ratio Lower Upper
173 100
175 541.6 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



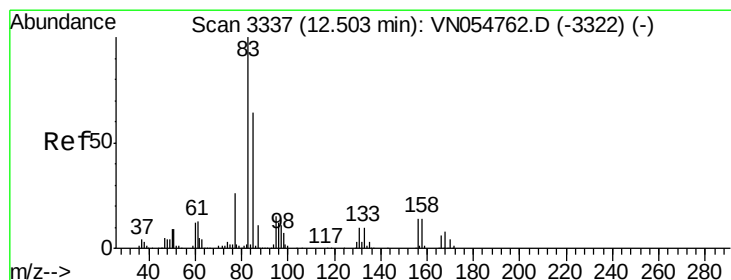
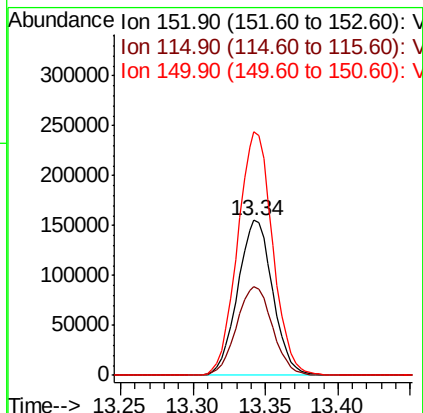
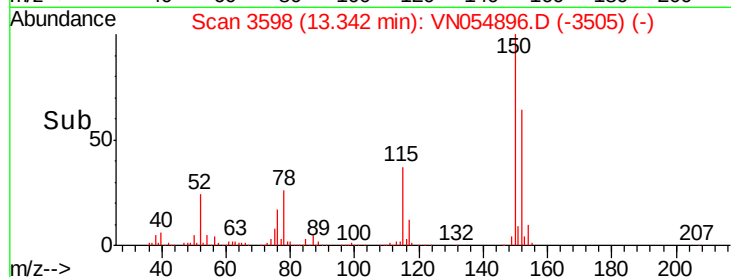
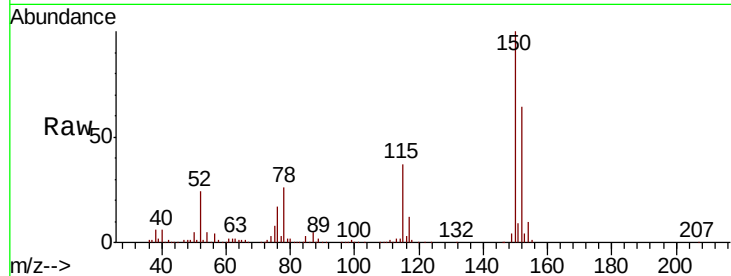


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Instrument :
MSVOA_N
ClientSampled :

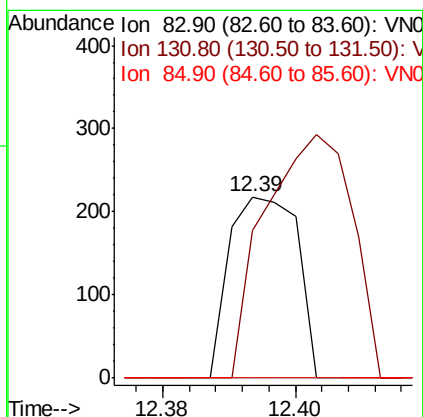
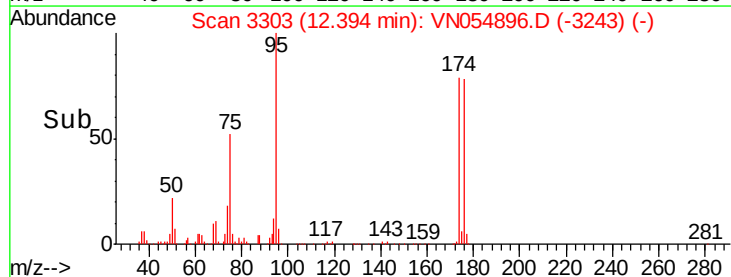
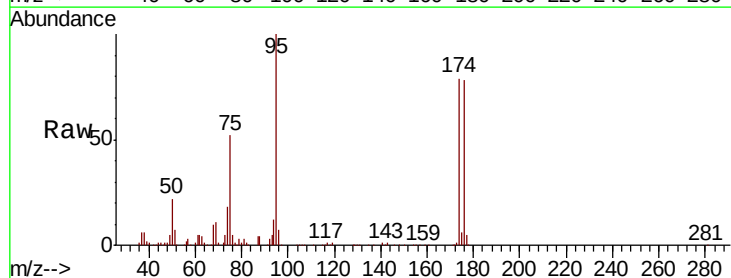
Tot Ion:152 Resp: 260568
Ion Ratio Lower Upper
152 100
115 58.7 27.2 81.6
150 156.9 0.0 349.2

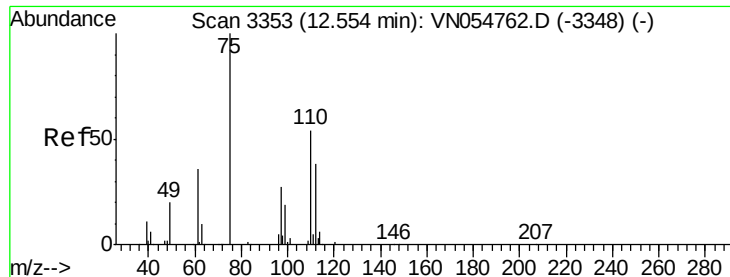


#75

1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.39 min Scan# 3303
Delta R.T. -0.11 min
Lab File: VN054896.D
Acq: 2 Apr 2019 12:46

Tgt Ion: 83 Resp: 155
Ion Ratio Lower Upper
83 100
131 173.5 5.8 17.4#
85 0.0 32.2 96.6#





#76

1,2,3-Trichloropropane

Concen: 37.074 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

Instrument :

MSVOA_N

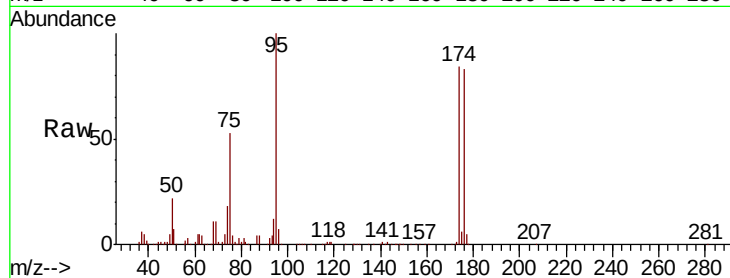
ClientSampled :

Tot Ion: 75 Resp: 167824

Ion Ratio Lower Upper

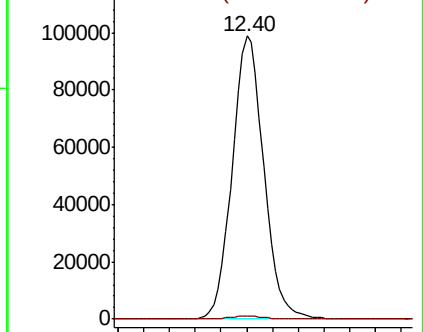
75 100

77 1.1 0.0 0.0#

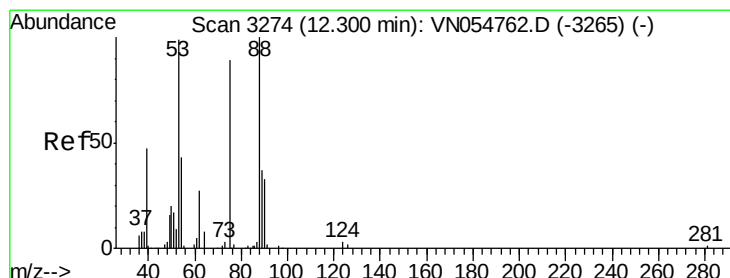
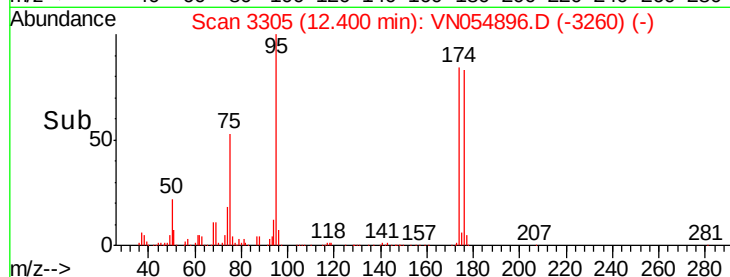


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 144.210 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054896.D

Acq: 2 Apr 2019 12:46

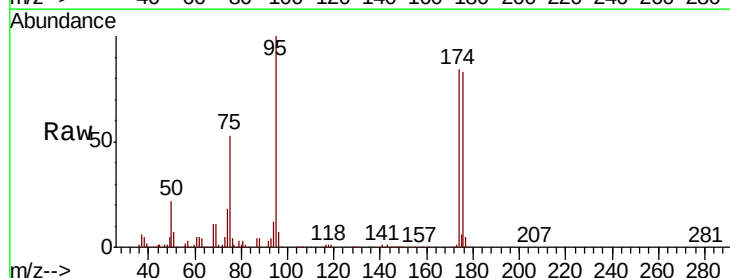
Tgt Ion: 75 Resp: 167824

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

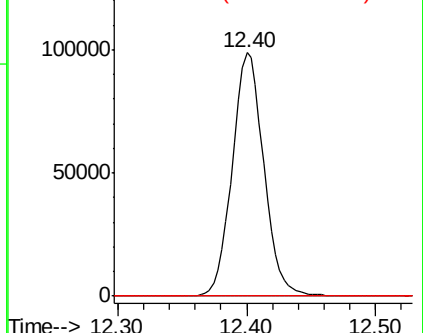
89 0.0 39.2 58.8#



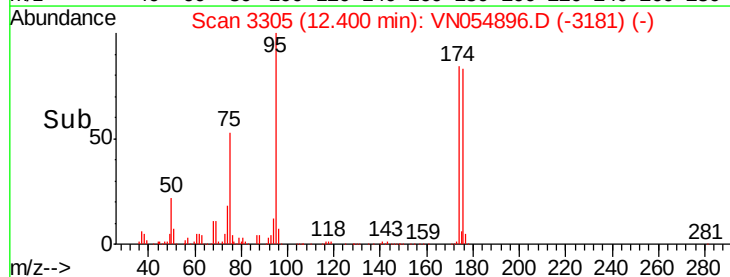
Abundance Ion 74.90 (74.60 to 75.60): VN0

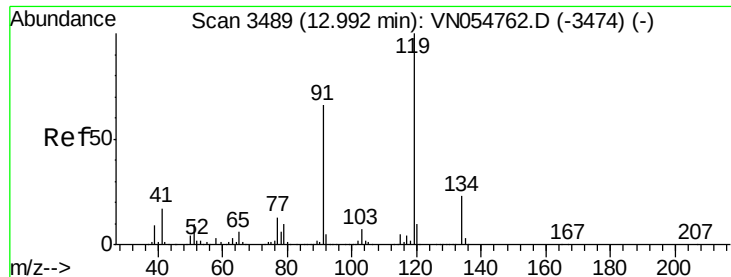
Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50

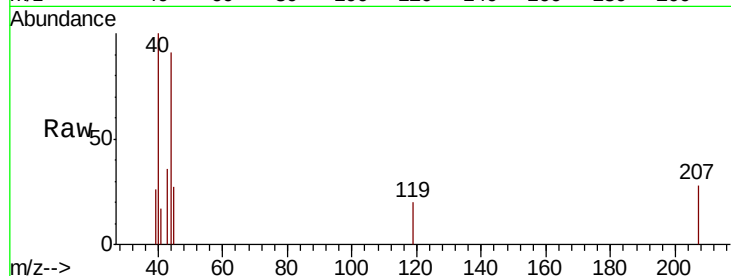




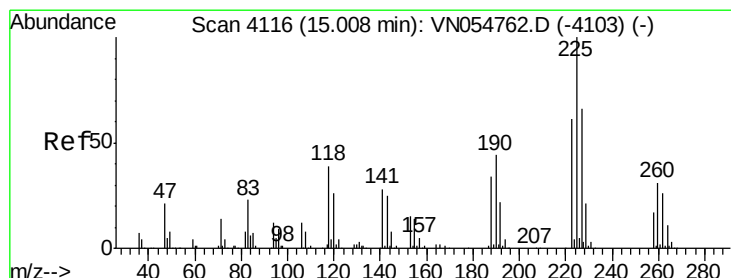
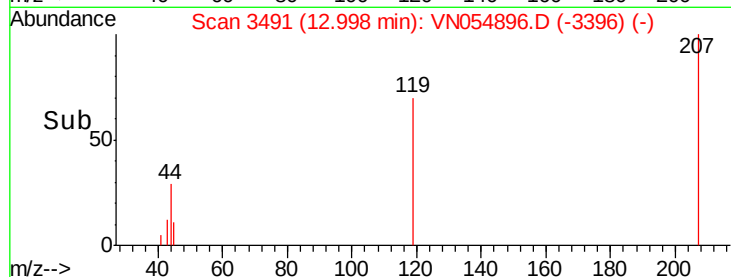
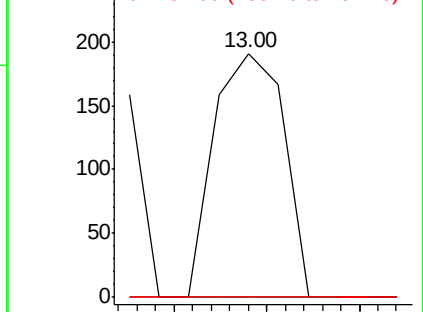
#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.01 min
 Lab File: VN054896.D
 Acq: 2 Apr 2019 12:46

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:119 Resp: 100
 Ion Ratio Lower Upper
 119 100
 91 0.0 30.9 92.8#
 134 0.0 13.2 39.6#

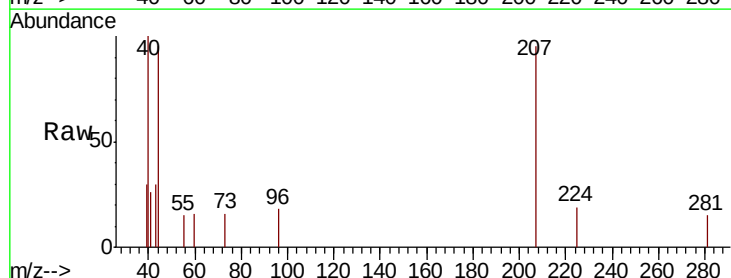


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 91.00 (90.70 to 91.70): V
 Ion 134.00 (133.70 to 134.70): V



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4114
 Delta R.T. -0.01 min
 Lab File: VN054896.D
 Acq: 2 Apr 2019 12:46

Tgt Ion:225 Resp: 102
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.1 93.5#
 227 0.0 31.9 95.9#



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

