

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054901.D
 Acq On : 2 Apr 2019 14:58
 Operator : JC/SP
 Sample : K2213-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 05:06:30 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

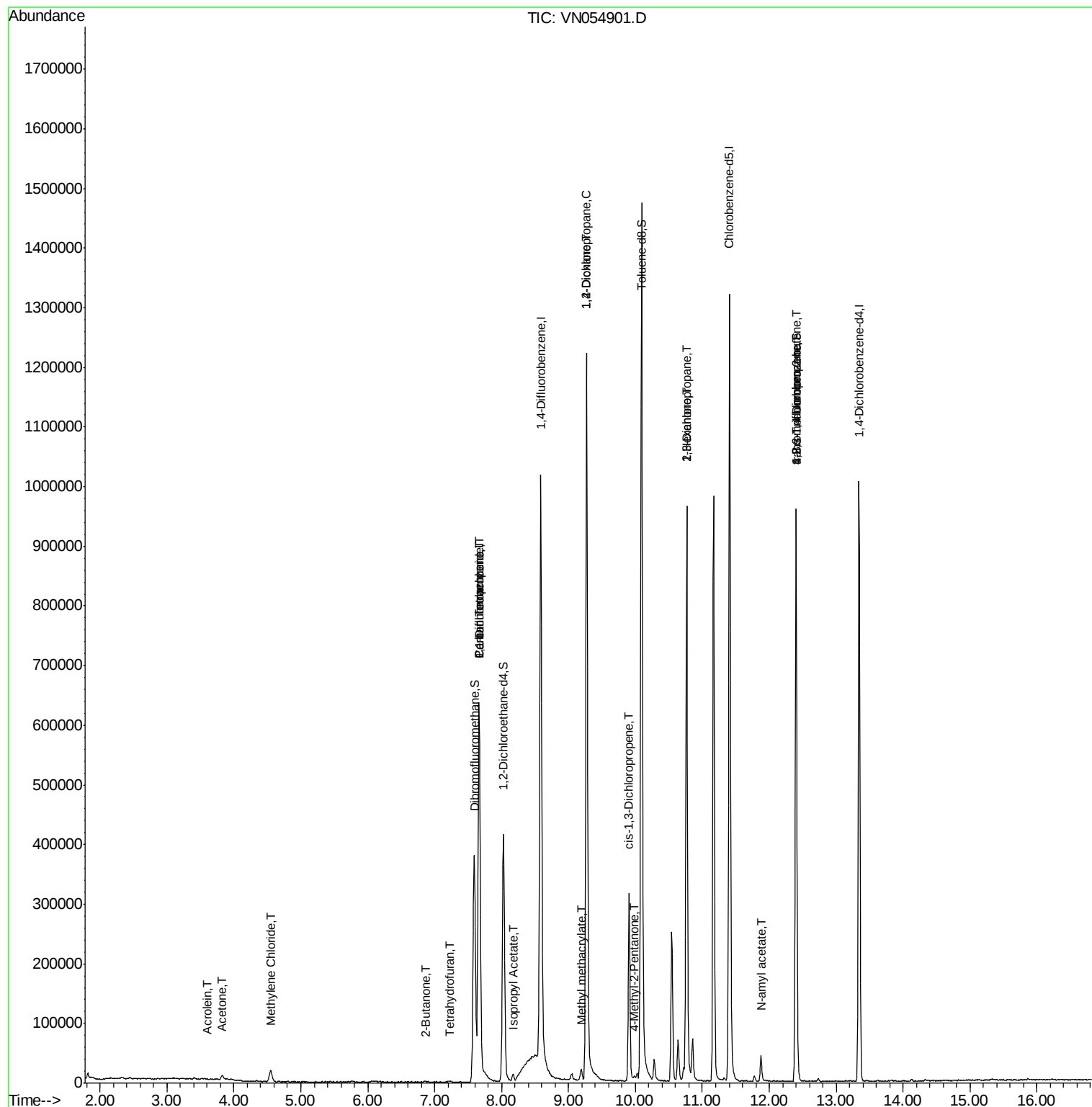
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	536892	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	912398	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	776327	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	270507	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	356179	49.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.42%	
35) Dibromofluoromethane	7.59	113	289705	47.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.26%	
50) Toluene-d8	10.09	98	1084809	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
62) 4-Bromofluorobenzene	12.40	95	328938	43.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.48%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	128	Below Cal	#	19
13) Acrolein	3.60	56	198	0.587	ug/l	95
16) Acetone	3.82	43	10782	6.247	ug/l #	84
18) Methyl Acetate	4.33	43	1141	Below Cal	#	59
20) Methylene Chloride	4.55	84	12160	1.997	ug/l	86
25) 2-Butanone	6.86	43	2347	0.920	ug/l #	46
29) Tetrahydrofuran	7.22	42	918	0.518	ug/l #	47
31) Cyclohexane	7.67	56	11424	Below Cal	#	40
36) 1,1-Dichloropropene	7.67	75	42129	4.955	ug/l #	47
38) Carbon Tetrachloride	7.66	117	52515	6.360	ug/l #	16
43) Isopropyl Acetate	8.17	43	15053	1.486	ug/l #	90
45) 1,2-Dichloropropane	9.27	63	1588	0.229	ug/l #	43
48) Methyl methacrylate	9.18	41	7989	1.455	ug/l #	11
49) 1,4-Dioxane	9.27	88	68	1.248	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5319	0.934	ug/l #	83
54) cis-1,3-Dichloropropene	9.91	75	51652	5.668	ug/l #	69
57) 1,3-Dichloropropane	10.77	76	9766	1.055	ug/l #	43
59) 2-Hexanone	10.76	43	159004	43.610	ug/l #	48
74) N-amyl acetate	11.88	43	14958	2.172	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	12.40	83	151	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	169955	36.166	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169955	140.676	ug/l #	11
83) tert-Butylbenzene	13.00	119	96	Below Cal	#	28

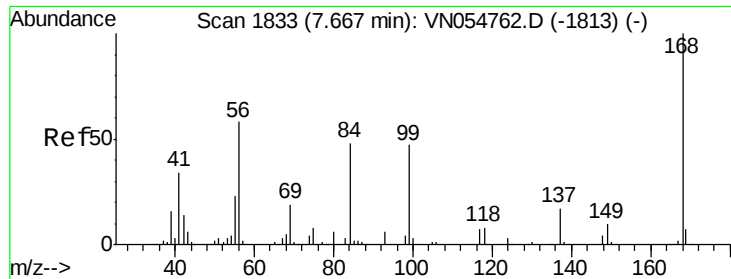
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054901.D

Acq: 2 Apr 2019 14:58

Instrument :

MSVOA_N

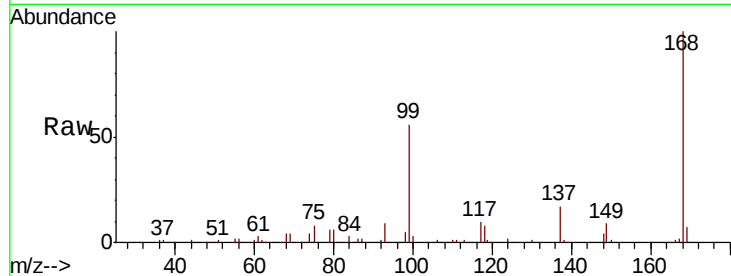
ClientSampleId :

Tot Ion:168 Resp: 536892

Ion Ratio Lower Upper

168 100

99 55.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054762.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054762.D (-1813) (-)

7.67

250000

200000

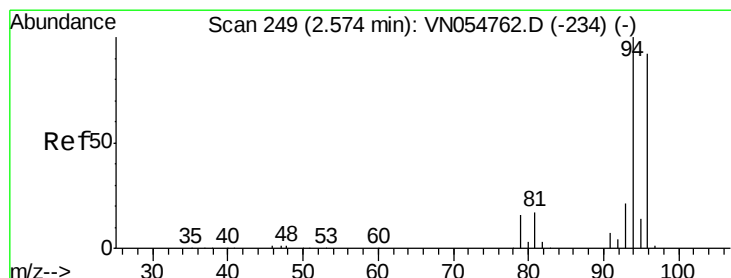
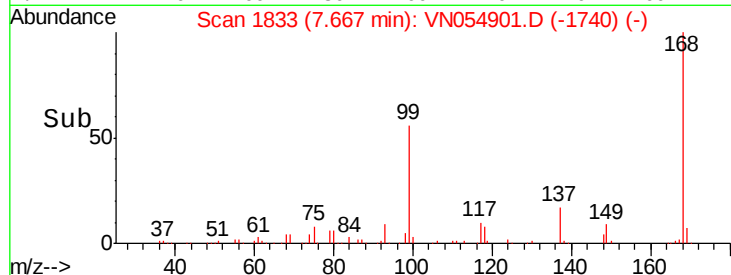
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN054901.D

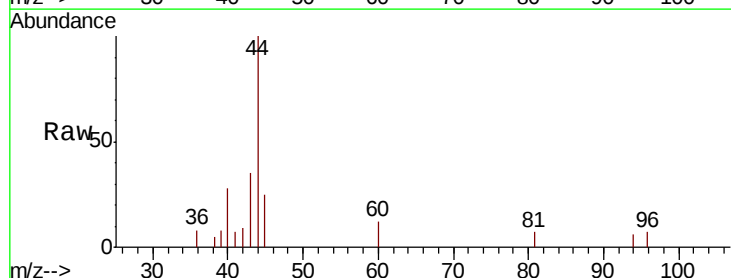
Acq: 2 Apr 2019 14:58

Tgt Ion: 94 Resp: 128

Ion Ratio Lower Upper

94 100

96 17.4 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054762.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN054762.D (-234) (-)

250

200

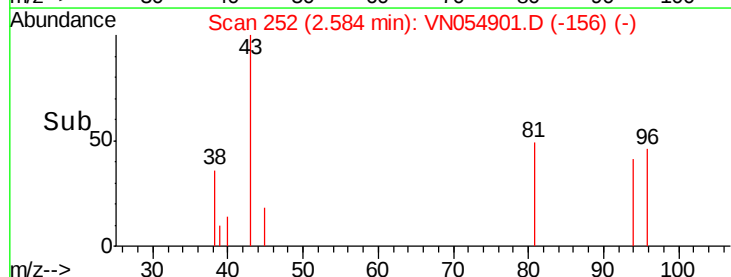
150

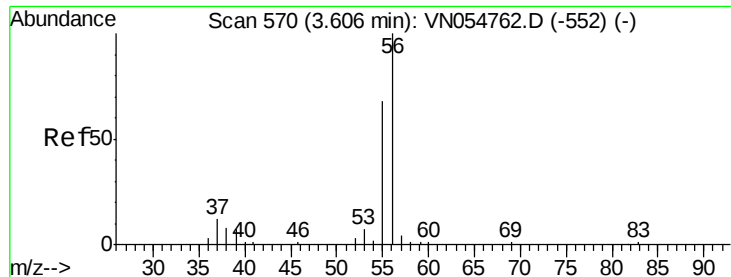
100

50

0

Time--> 2.57 2.58 2.59





#13

Acrolein

Concen: 0.587 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054901.D

Acq: 2 Apr 2019 14:58

Instrument :

MSVOA_N

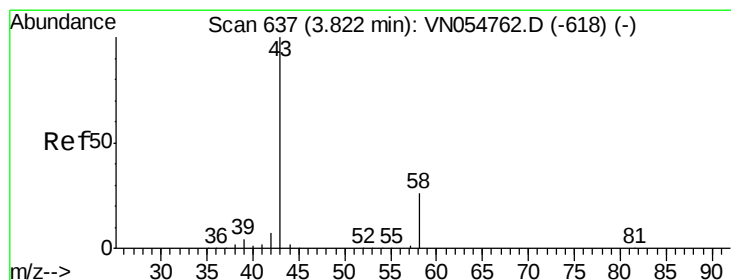
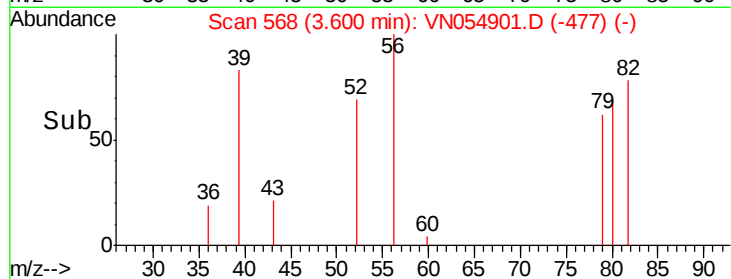
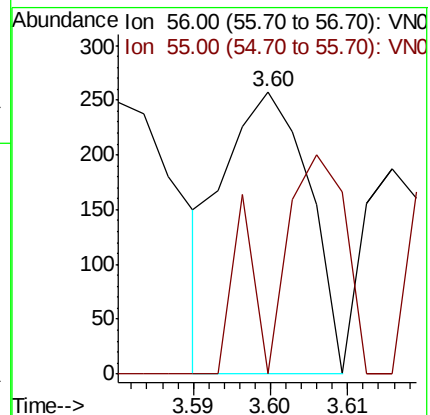
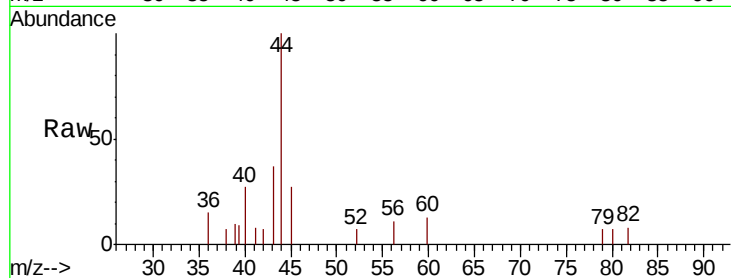
ClientSampled :

Tot Ion: 56 Resp: 198

Ion Ratio Lower Upper

56 100

55 67.2 56.7 85.1



#16

Acetone

Concen: 6.247 ug/l

RT: 3.82 min Scan# 637

Delta R.T. -0.00 min

Lab File: VN054901.D

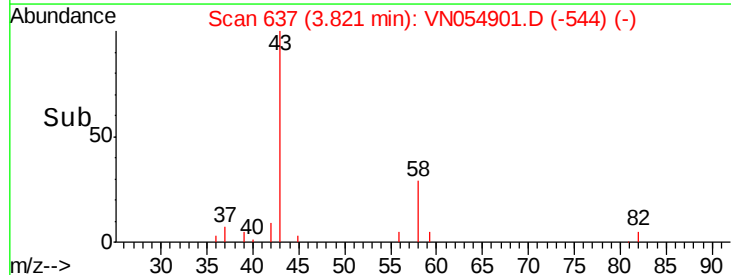
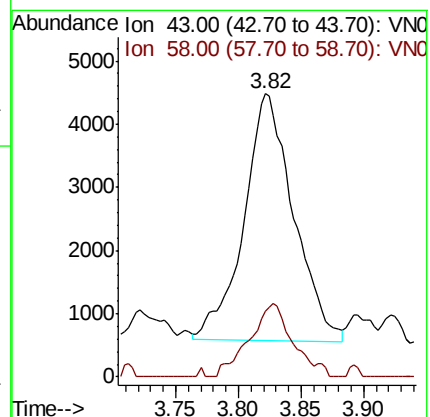
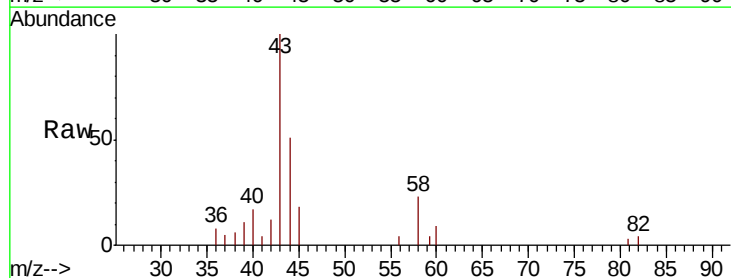
Acq: 2 Apr 2019 14:58

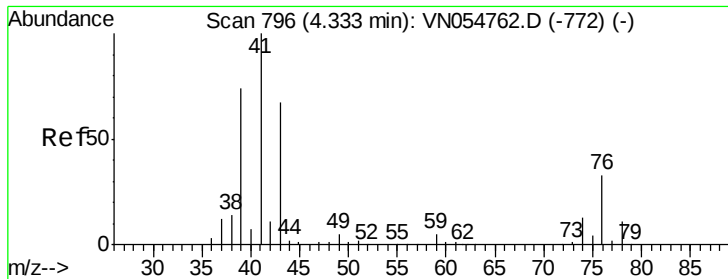
Tgt Ion: 43 Resp: 10782

Ion Ratio Lower Upper

43 100

58 27.7 29.9 44.9#

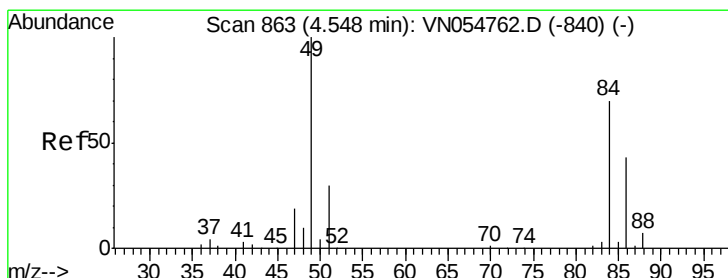
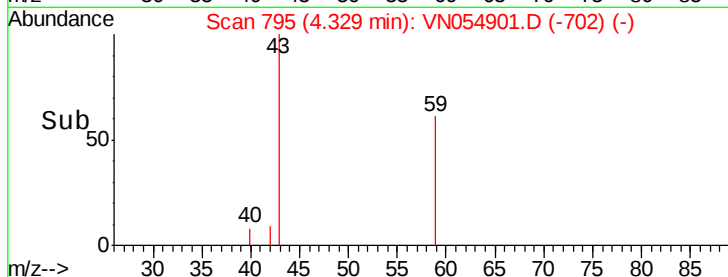
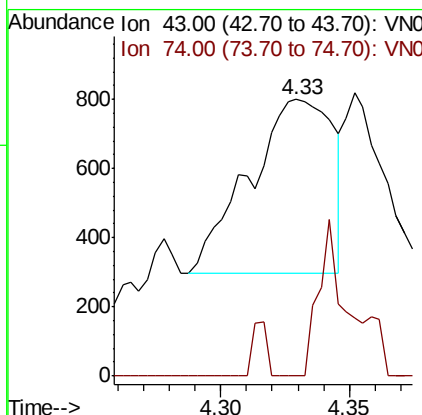
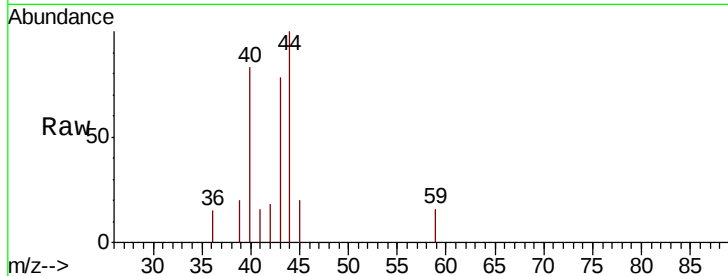




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

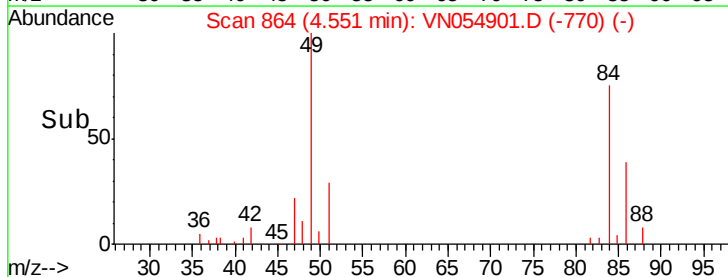
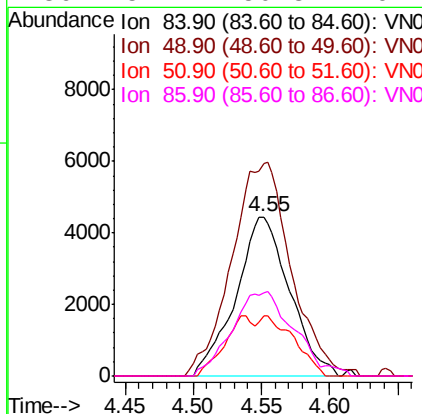
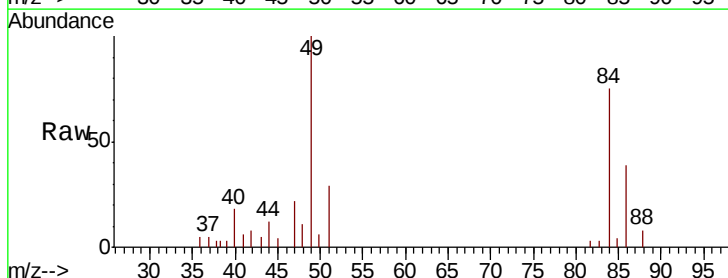
Instrument :
MSVOA_N
ClientSampled :

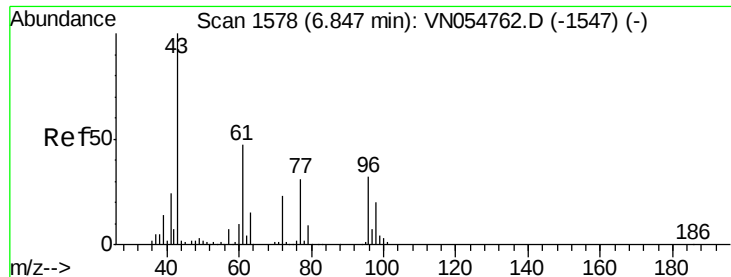
Tot Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
74 5.2 20.8 31.2#



#20
Methylene Chloride
Concen: 1.997 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Tgt Ion: 84 Resp: 12160
Ion Ratio Lower Upper
84 100
49 129.9 89.7 134.5
51 38.3 28.2 42.4
86 52.4 50.8 76.2

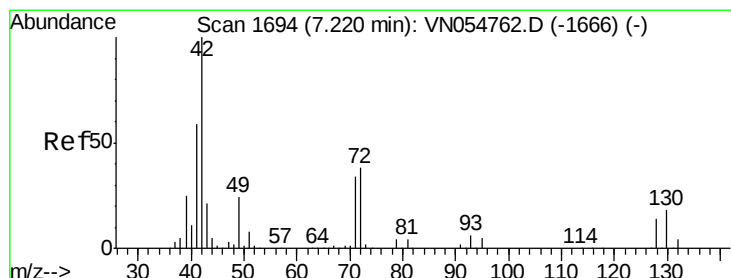
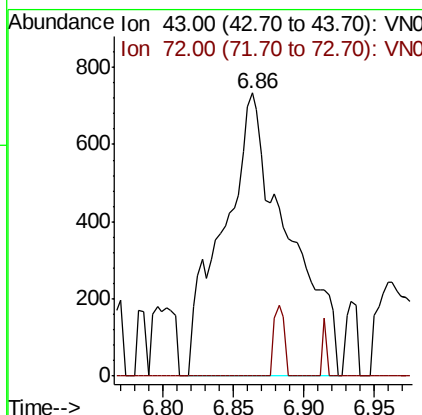
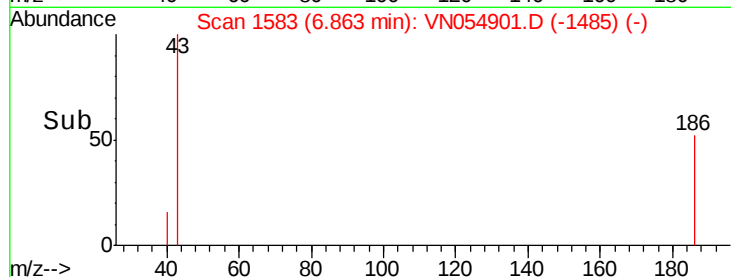
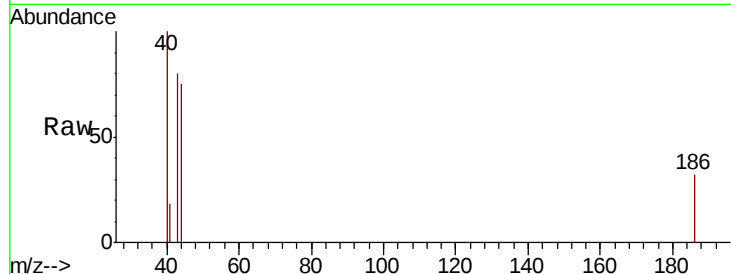




#25
2-Butanone
Concen: 0.920 ug/l
RT: 6.86 min Scan# 1583
Delta R.T. 0.02 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

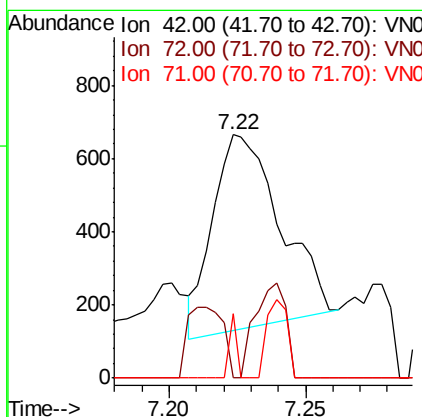
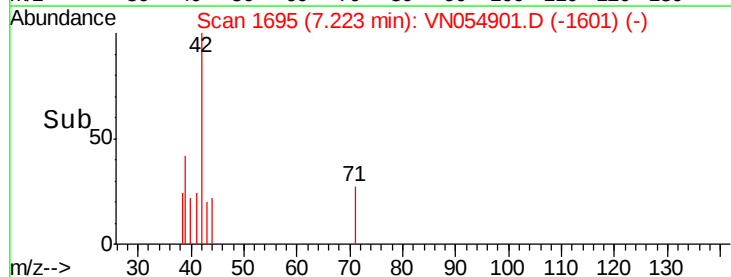
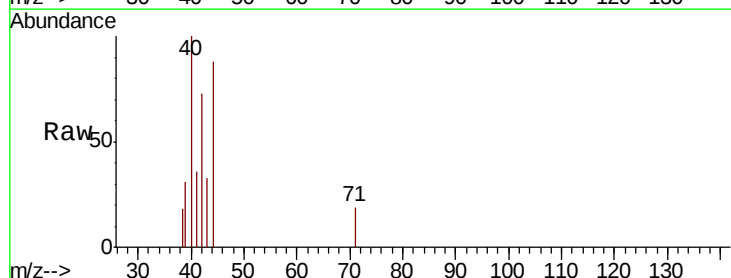
Instrument :
MSVOA_N
ClientSampled :

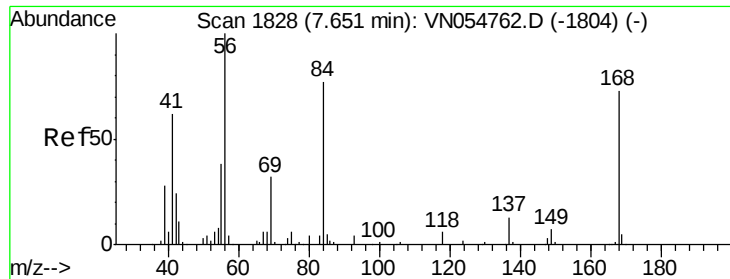
Tot Ion: 43 Resp: 2347
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.518 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Tgt Ion: 42 Resp: 918
Ion Ratio Lower Upper
42 100
72 18.6 37.8 56.6#
71 3.7 36.2 54.2#

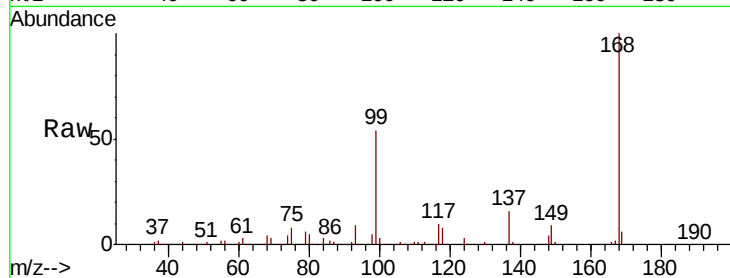




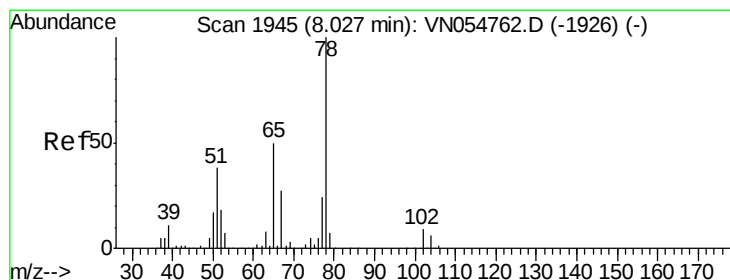
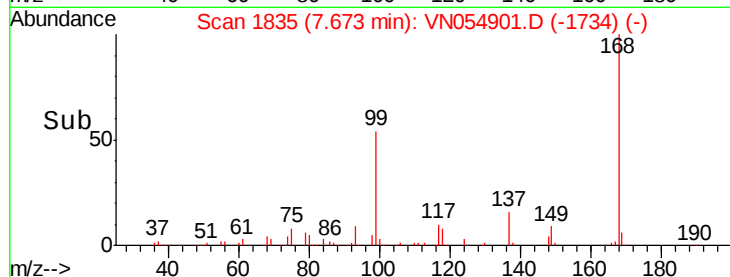
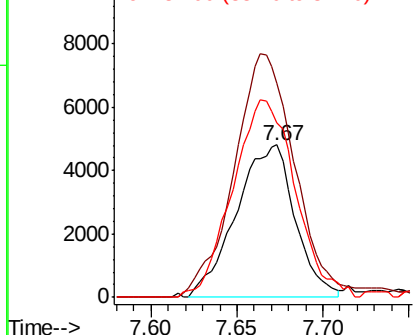
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1835
Delta R.T. 0.02 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11424
Ion Ratio Lower Upper
56 100
69 134.2 27.8 41.6#
84 110.6 74.6 111.8

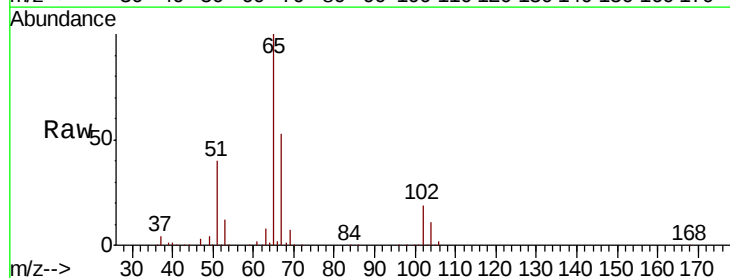


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

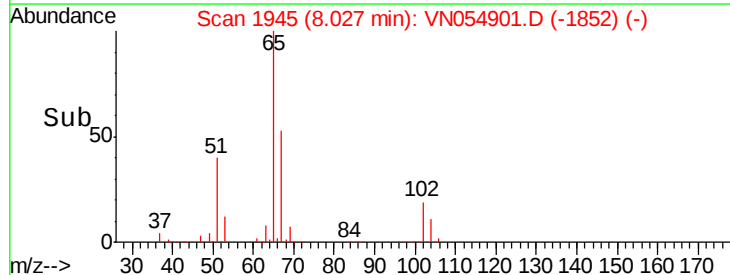
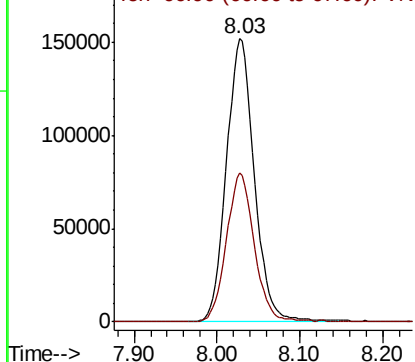


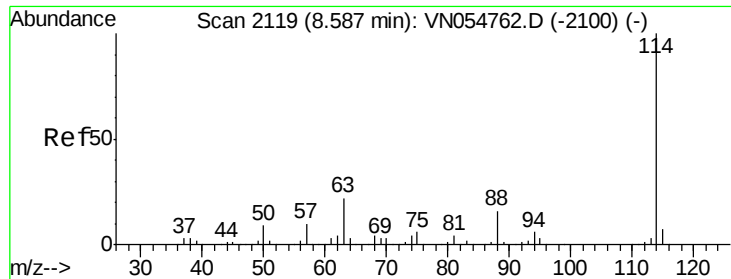
#33
1,2-Dichloroethane-d4
Concen: 49.213 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Tgt Ion: 65 Resp: 356179
Ion Ratio Lower Upper
65 100
67 52.4 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

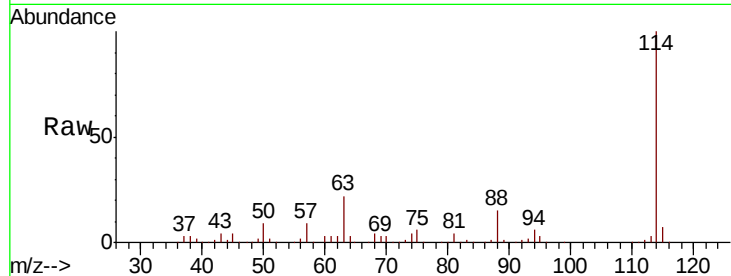




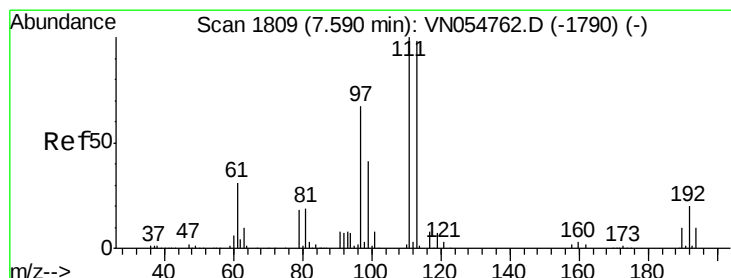
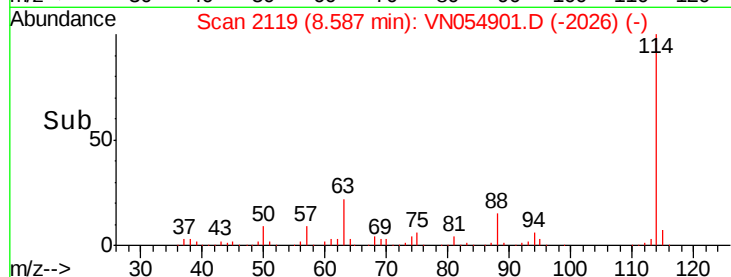
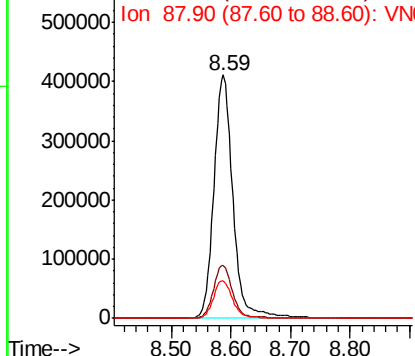
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054901.D
 Acq: 2 Apr 2019 14:58

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 912398
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 35.2
 88 15.4 0.0 30.2

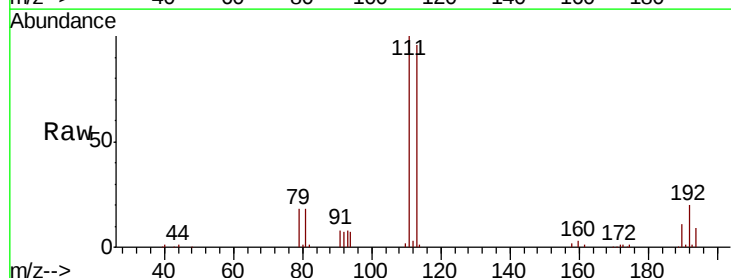


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

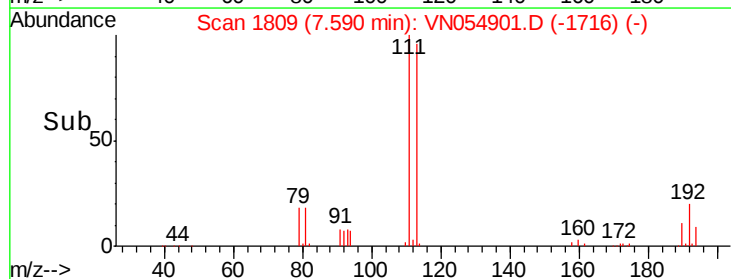
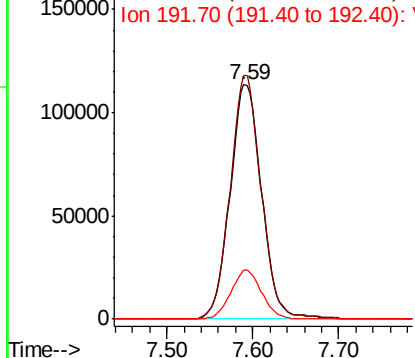


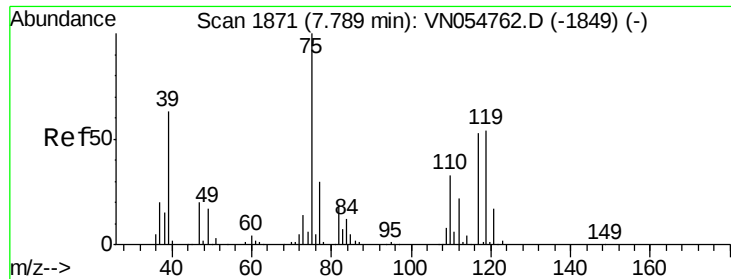
#35
 Dibromofluoromethane
 Concen: 47.626 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054901.D
 Acq: 2 Apr 2019 14:58

Tgt Ion:113 Resp: 289705
 Ion Ratio Lower Upper
 113 100
 111 102.3 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

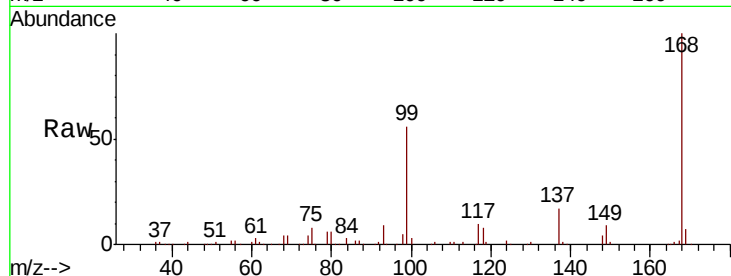




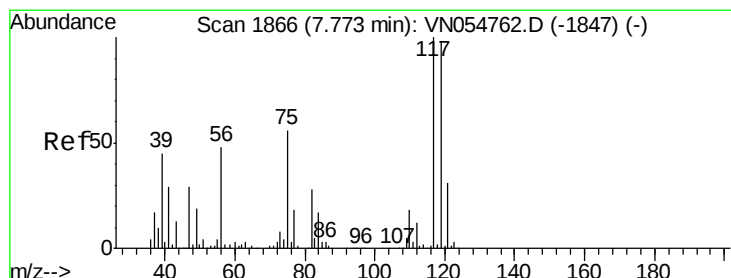
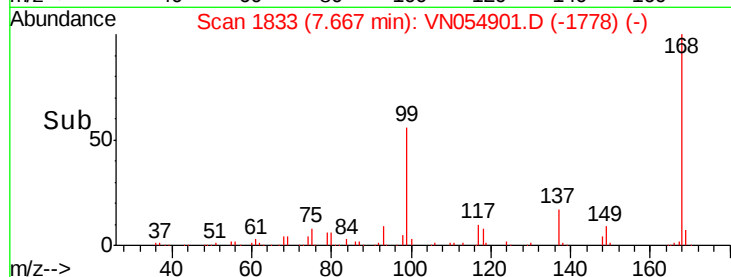
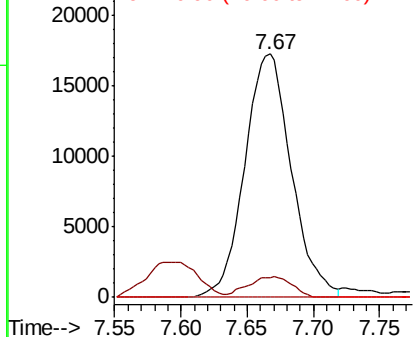
#36
 1,1-Dichloropropene
 Concen: 4.955 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054901.D
 Acq: 2 Apr 2019 14:58

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 42129
 Ion Ratio Lower Upper
 75 100
 110 8.0 19.1 57.5#
 77 0.0 25.0 37.4#

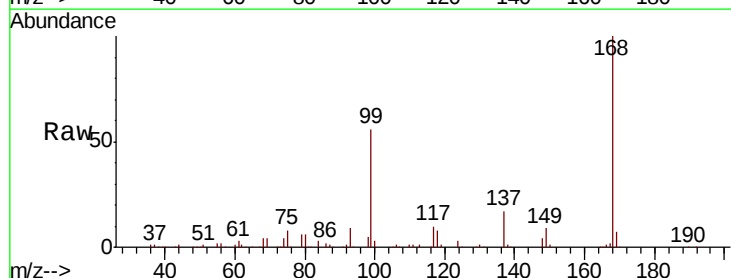


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

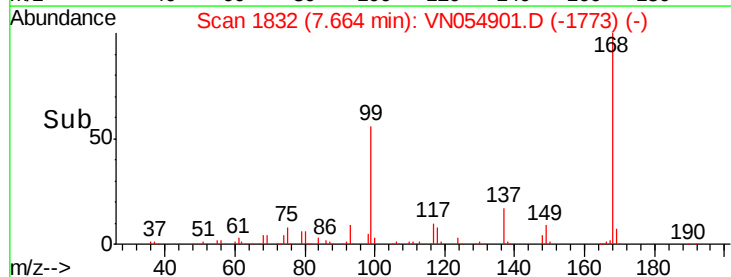
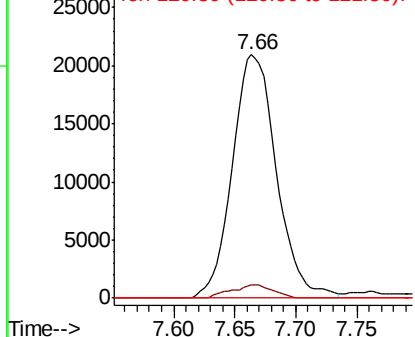


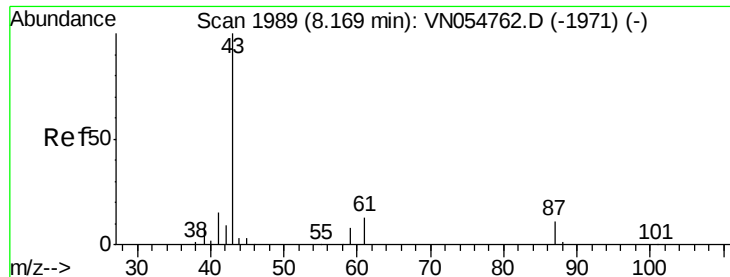
#38
 Carbon Tetrachloride
 Concen: 6.360 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054901.D
 Acq: 2 Apr 2019 14:58

Tgt Ion: 117 Resp: 52515
 Ion Ratio Lower Upper
 117 100
 119 5.3 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: 1.486 ug/l

RT: 8.17 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN054901.D

Acq: 2 Apr 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

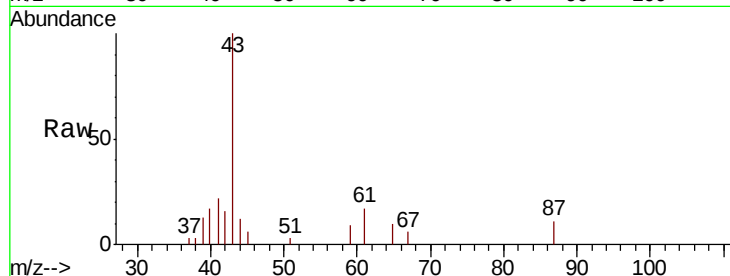
Tot Ion: 43 Resp: 15053

Ion Ratio Lower Upper

43 100

61 15.6 15.8 23.8#

87 10.5 12.0 18.0#



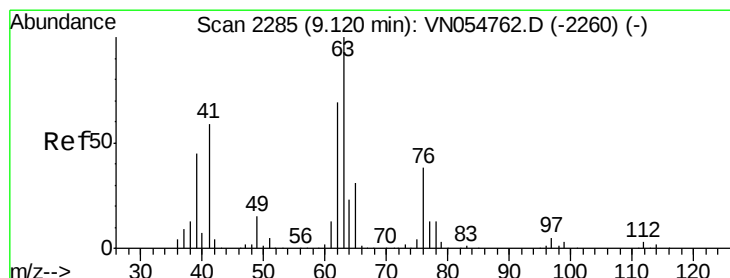
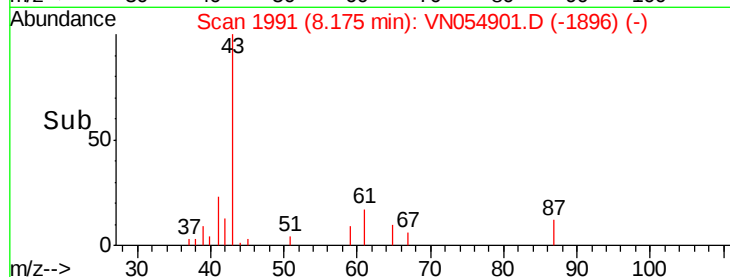
Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN054762.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN054762.D (-1971) (-)

8.17

Time-->



#45

1,2-Dichloropropane

Concen: 0.229 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN054901.D

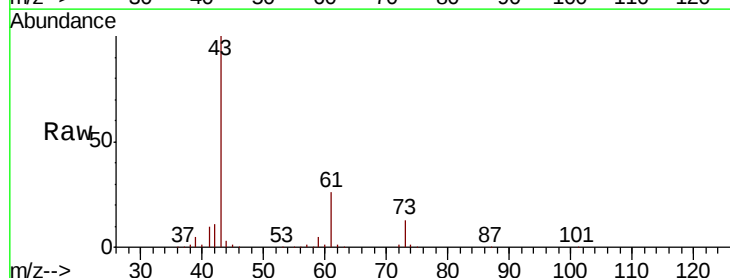
Acq: 2 Apr 2019 14:58

Tgt Ion: 63 Resp: 1588

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

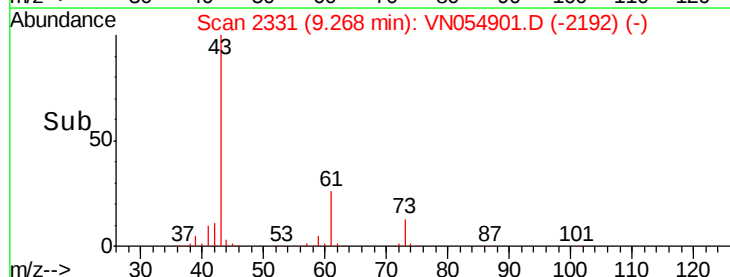


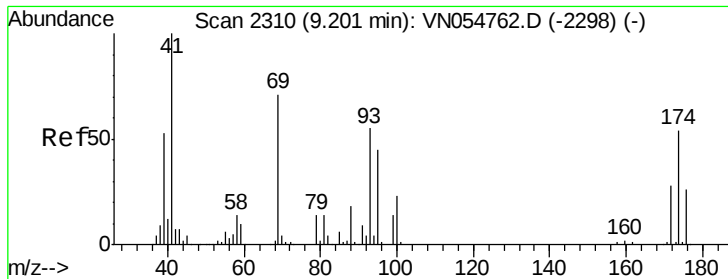
Abundance Ion 62.90 (62.60 to 63.60): VN054762.D (-2260) (-)

Ion 64.90 (64.60 to 65.60): VN054762.D (-2260) (-)

9.27

Time-->

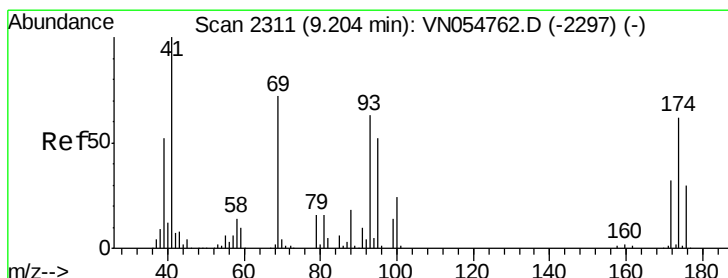
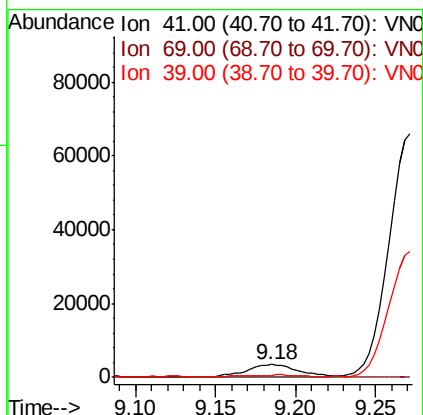
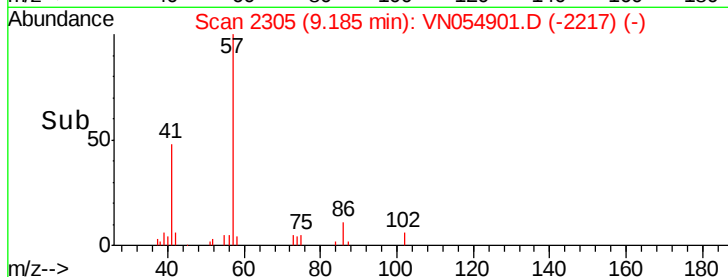
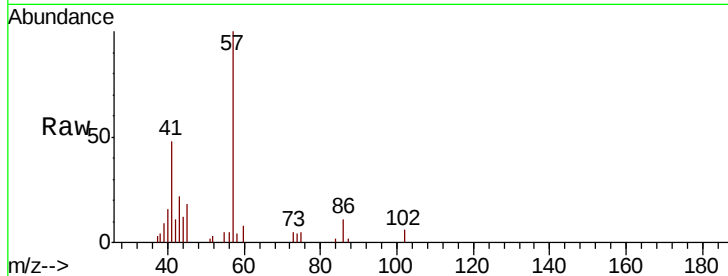




#48
Methvl methacrylate
Concen: 1.455 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

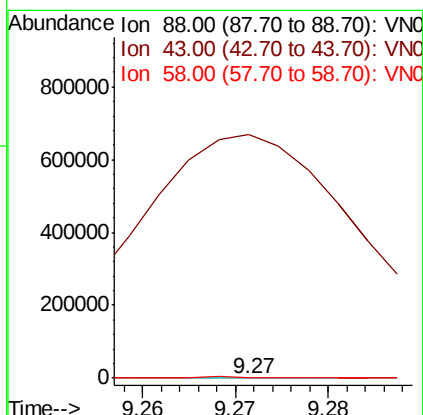
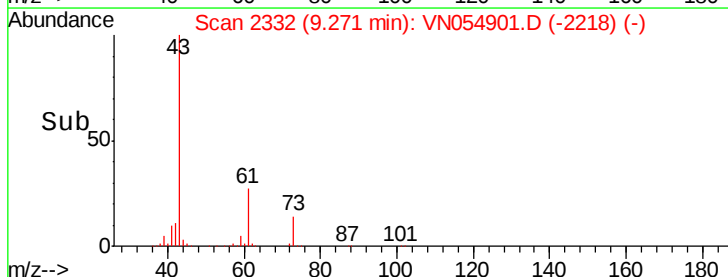
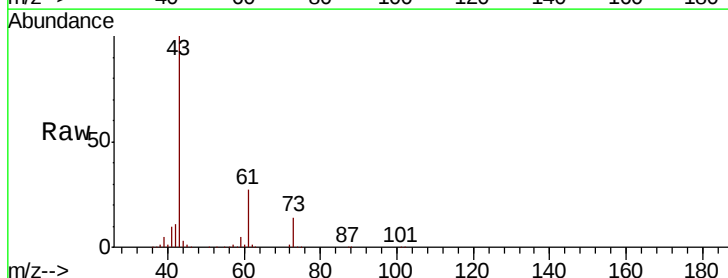
Instrument :
MSVOA_N
ClientSampled :

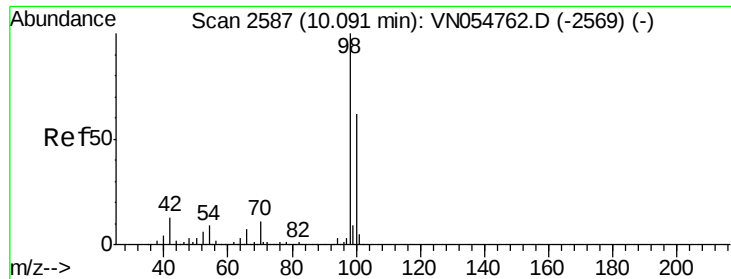
Tot Ion: 41 Resp: 7989
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 1.248 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 1943011.8 24.1 36.1#
58 8491.2 50.8 76.2#

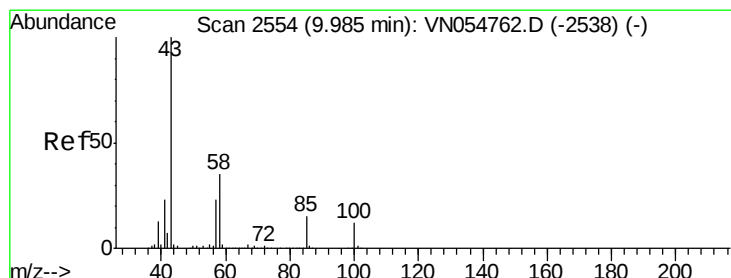
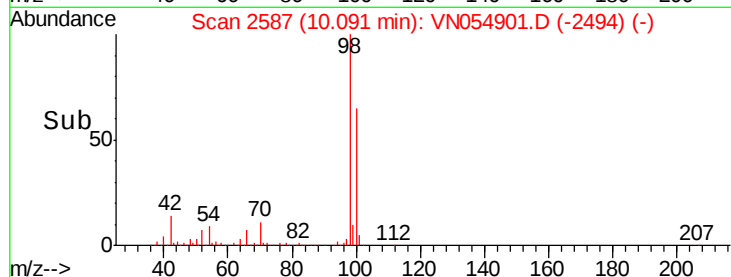
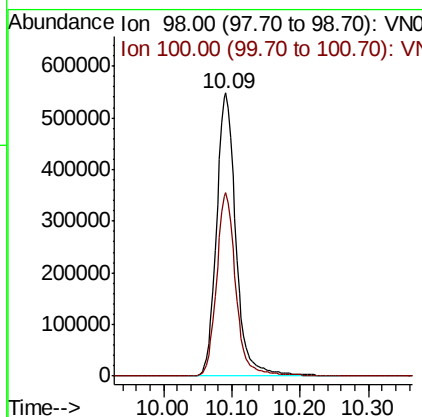
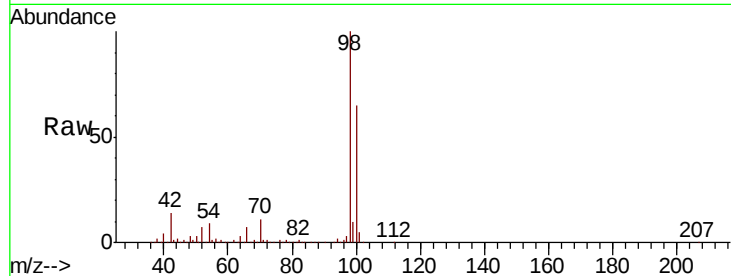




#50
Toluene-d8
Concen: 47.969 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

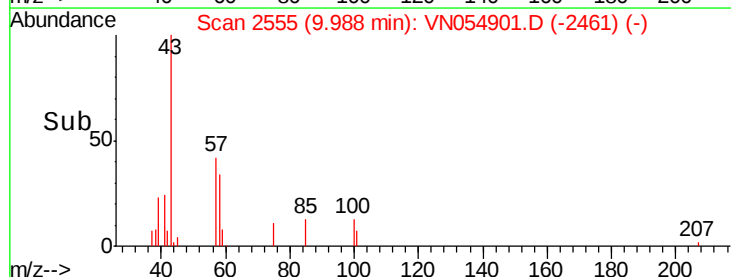
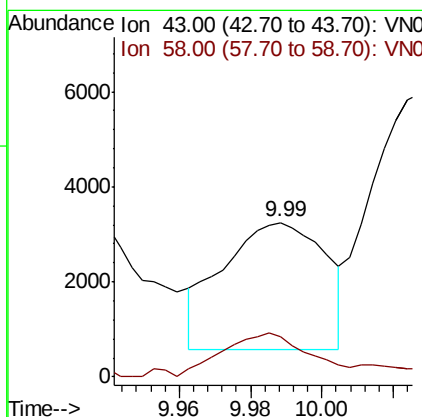
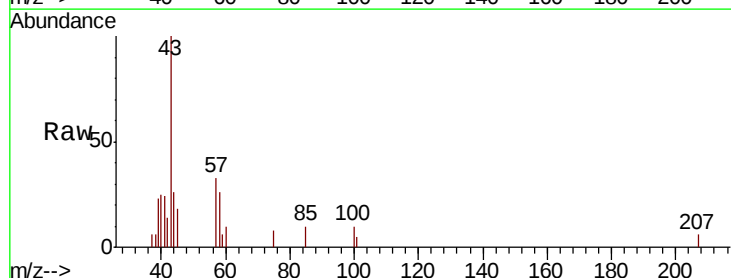
Instrument :
MSVOA_N
ClientSampled :

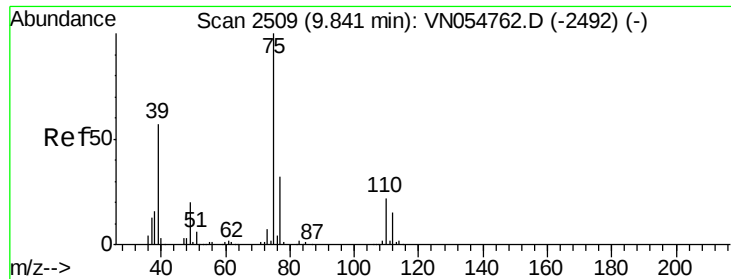
Tot Ion: 98 Resp: 1084809
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.934 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Tgt Ion: 43 Resp: 5319
Ion Ratio Lower Upper
43 100
58 29.0 31.8 47.6#



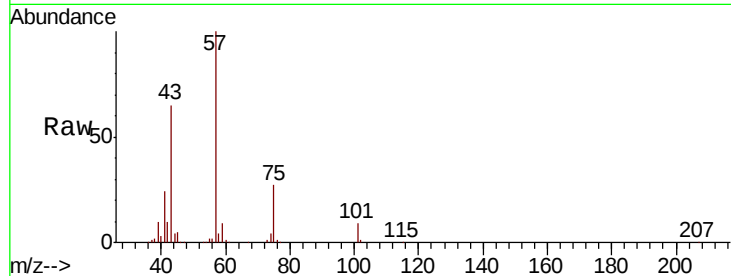


#54

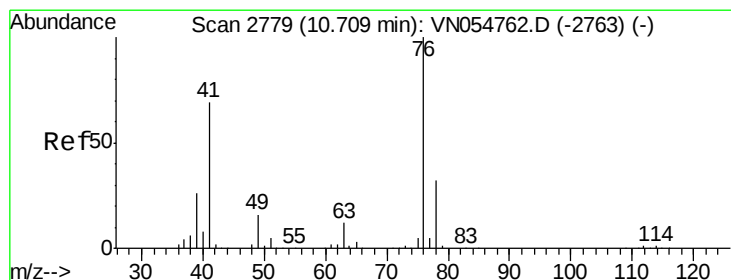
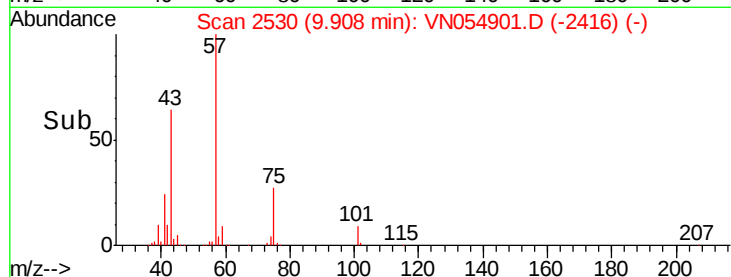
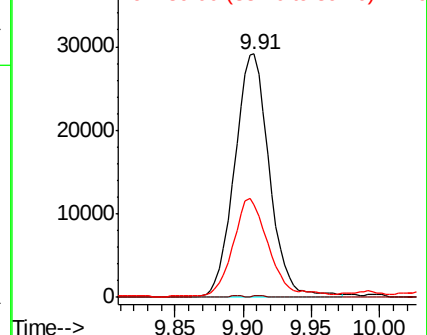
cis-1,3-Dichloropropene
 Concen: 5.668 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN054901.D
 Acq: 2 Apr 2019 14:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 51652
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.4 38.0#
 39 37.4 37.2 55.8



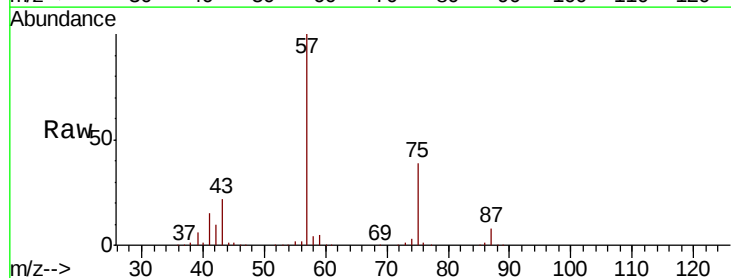
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



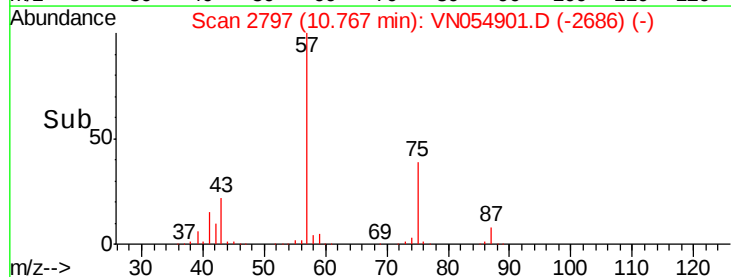
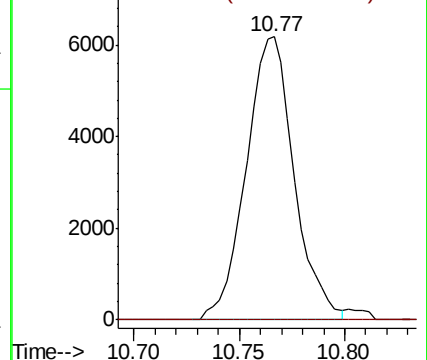
#57

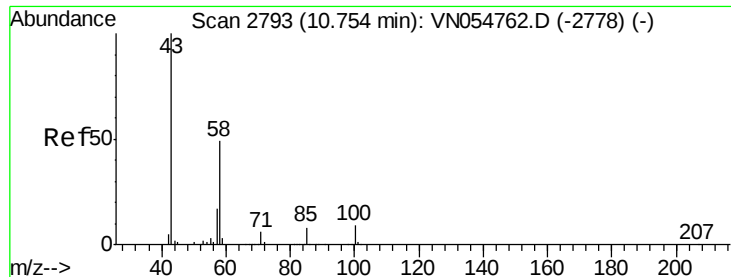
1,3-Dichloropropane
 Concen: 1.055 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054901.D
 Acq: 2 Apr 2019 14:58

Tgt Ion: 76 Resp: 9766
 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

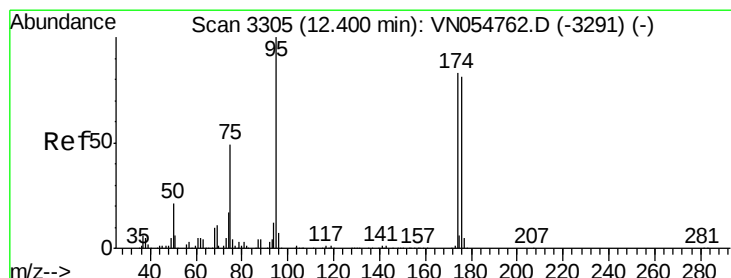
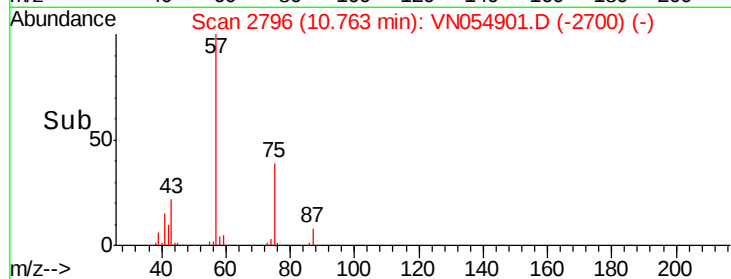
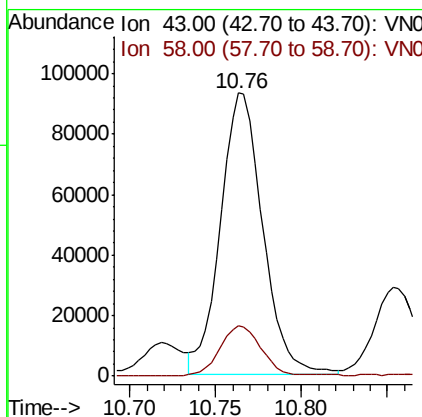
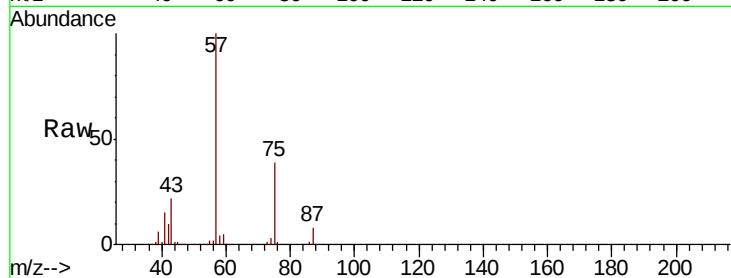




#59
2-Hexanone
Concen: 43.610 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

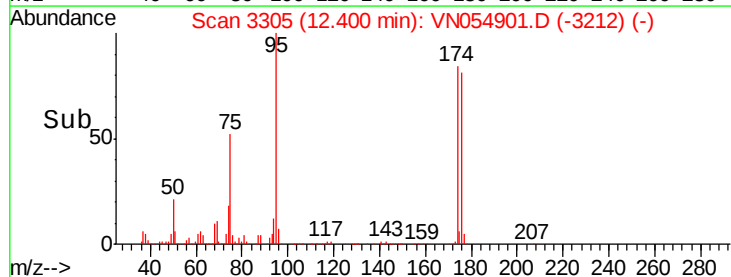
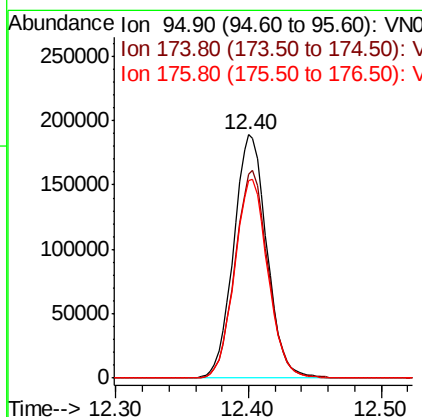
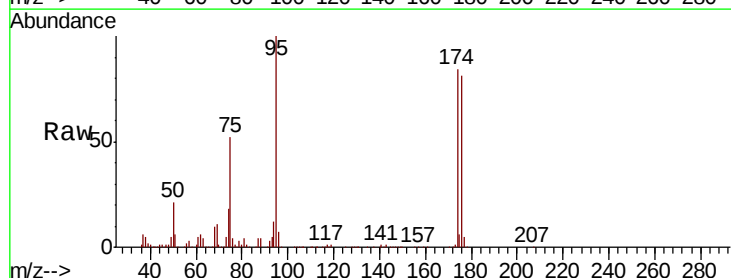
Instrument :
MSVOA_N
ClientSampled :

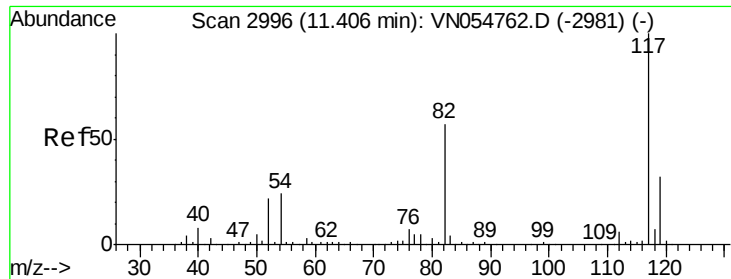
Tot Ion: 43 Resp: 159004
Ion Ratio Lower Upper
43 100
58 17.6 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 43.735 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Tgt Ion: 95 Resp: 328938
Ion Ratio Lower Upper
95 100
174 85.0 0.0 191.0
176 82.0 0.0 187.4

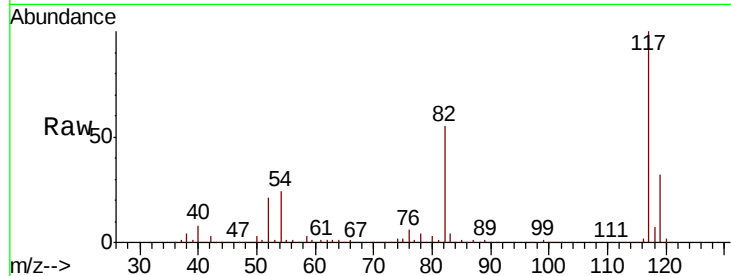




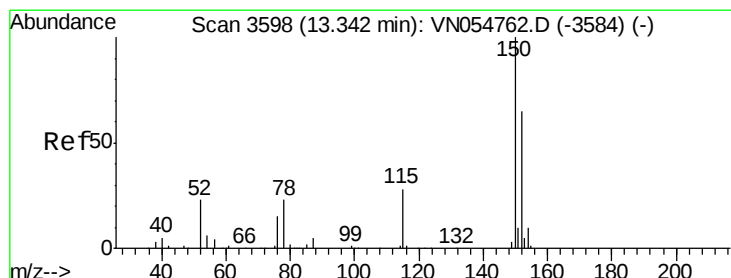
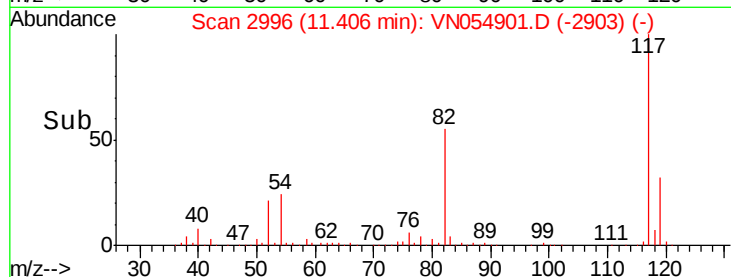
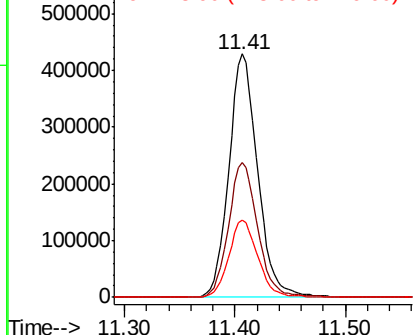
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 776327
Ion Ratio Lower Upper
117 100
82 55.3 40.0 60.0
119 31.9 25.8 38.6

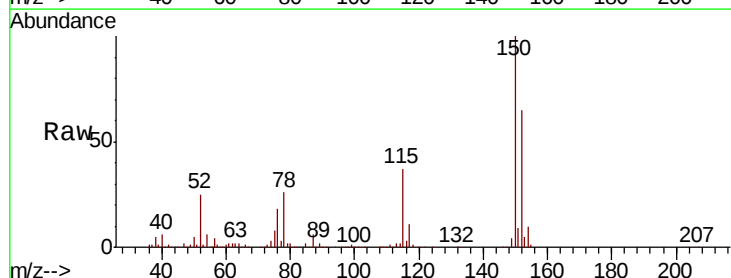


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

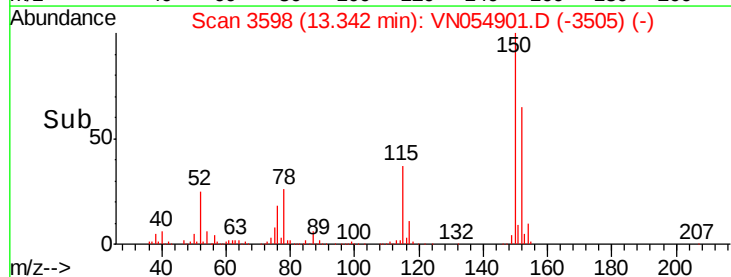
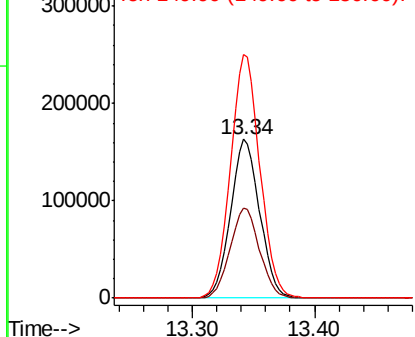


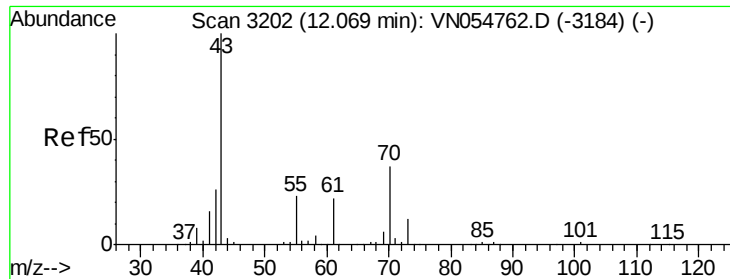
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054901.D
Acq: 2 Apr 2019 14:58

Tgt Ion:152 Resp: 270507
Ion Ratio Lower Upper
152 100
115 57.5 27.2 81.6
150 155.1 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: 2.172 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054901.D

Acq: 2 Apr 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 14958

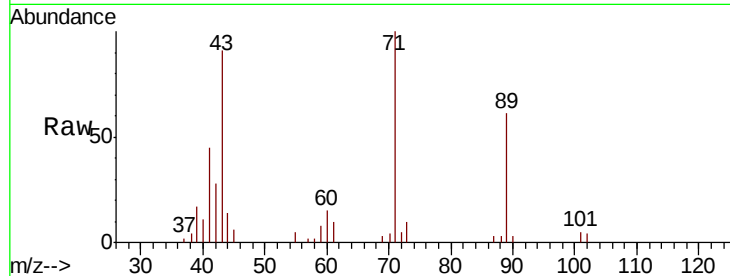
Ion Ratio Lower Upper

43 100

70 1.2 35.4 53.0#

55 4.8 19.8 29.6#

61 11.0 19.8 29.6#

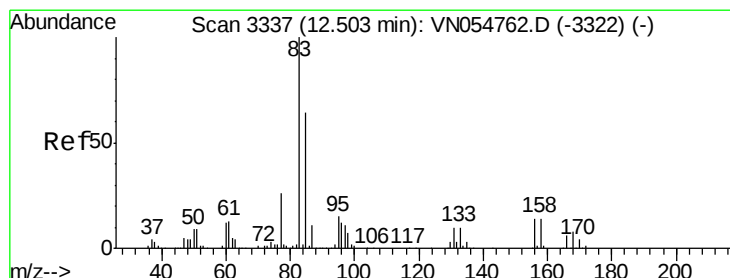
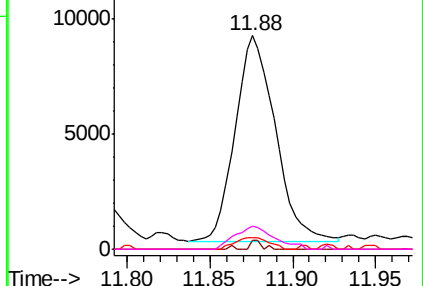
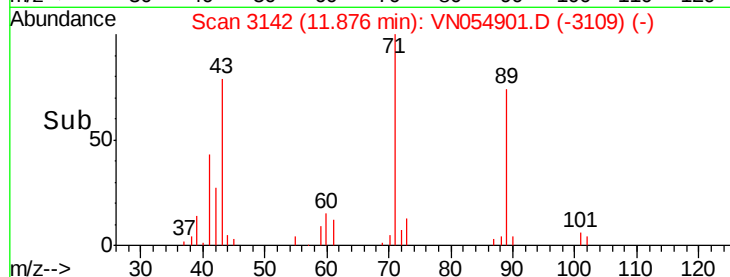


Abundance Ion 43.00 (42.70 to 43.70): VNO

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# 3306

Delta R.T. -0.10 min

Lab File: VN054901.D

Acq: 2 Apr 2019 14:58

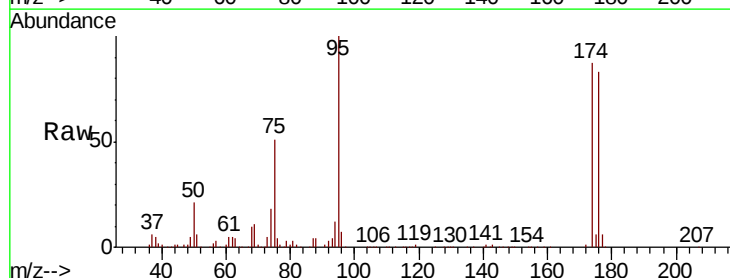
Tgt Ion: 83 Resp: 151

Ion Ratio Lower Upper

83 100

131 352.3 5.8 17.4#

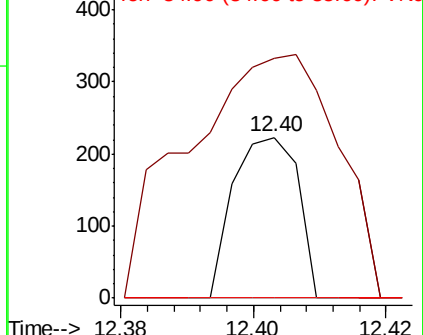
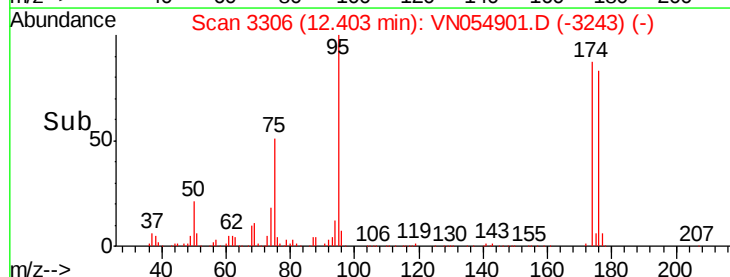
85 0.0 32.2 96.6#

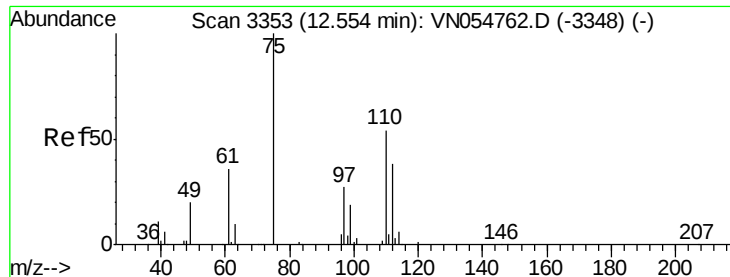


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 36.166 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054901.D

Acq: 2 Apr 2019 14:58

Instrument :

MSVOA_N

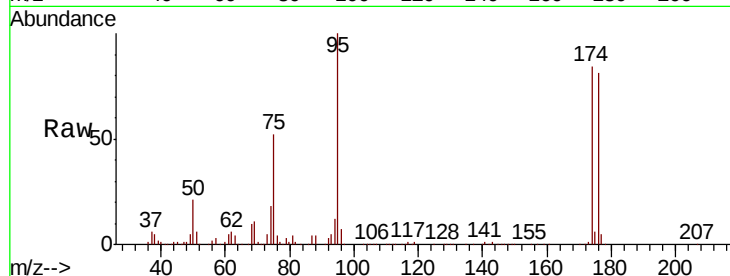
ClientSampleId :

Tot Ion: 75 Resp: 169955

Ion Ratio Lower Upper

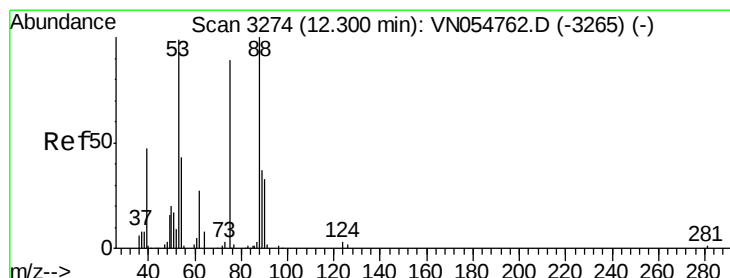
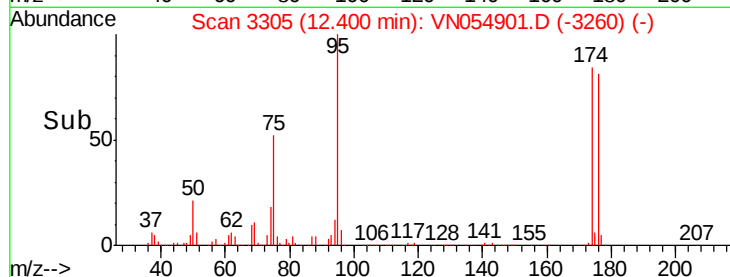
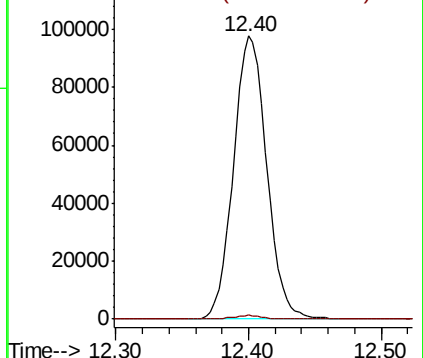
75 100

77 1.2 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: 140.676 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054901.D

Acq: 2 Apr 2019 14:58

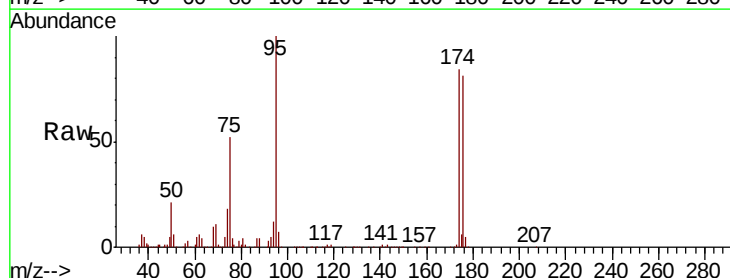
Tgt Ion: 75 Resp: 169955

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

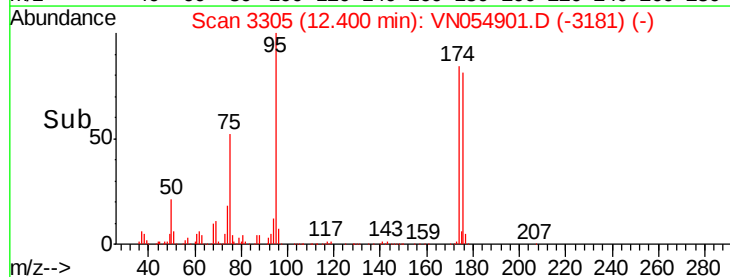
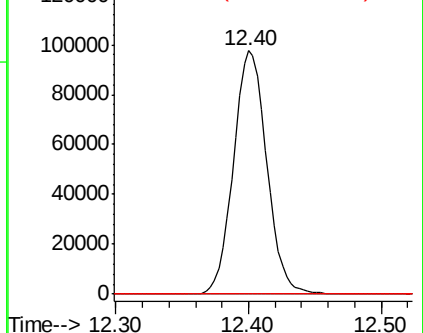
89 0.0 39.2 58.8#

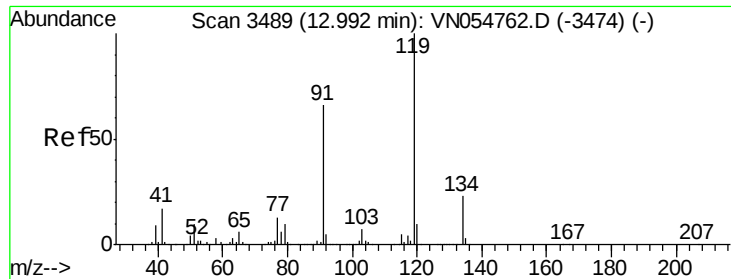


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

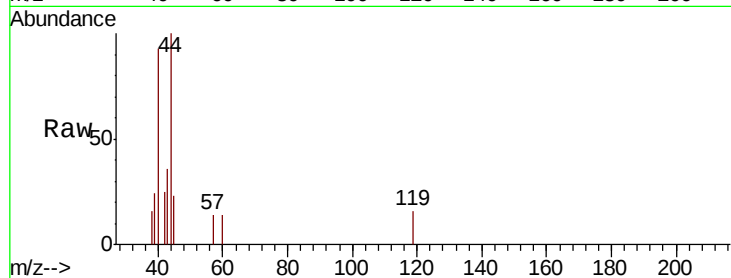




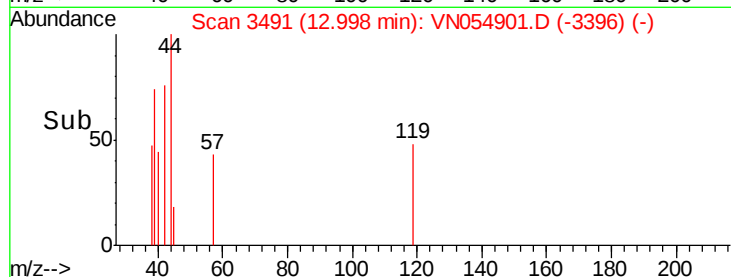
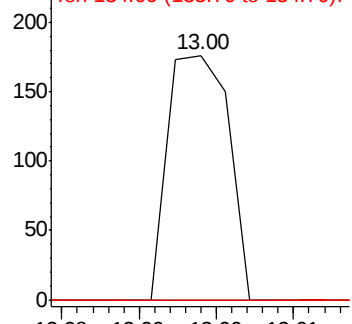
#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.01 min
 Lab File: VN054901.D
 Acq: 2 Apr 2019 14:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot 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): VN
 Ion 134.00 (133.70 to 134.70): V



Time-->