

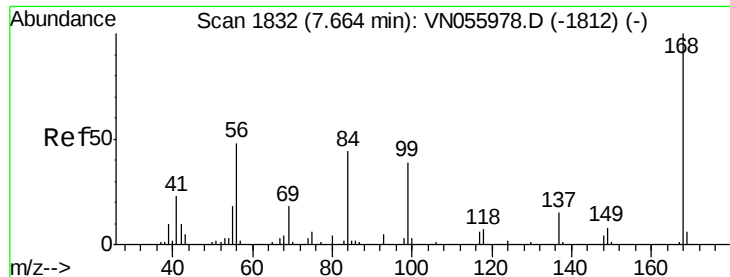
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060719\
 Data File : VN056074.D
 Acq On : 7 Jun 2019 3:54
 Operator : JC/SP
 Sample : K3203-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW009-190604

Quant Time: Jun 07 05:34:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	341300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	513504	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	484270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	156753	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	177520	52.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.76%	
35) Dibromofluoromethane	7.59	113	153306	48.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.32%	
50) Toluene-d8	10.09	98	641813	52.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.88%	
62) 4-Bromofluorobenzene	12.40	95	202127	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.18	62	4528	1.220	ug/l	98
11) Tert butyl alcohol	4.75	59	1531	2.596	ug/l #	74
16) Acetone	3.82	43	5476	3.379	ug/l	94
17) Carbon Disulfide	4.03	76	4261	0.621	ug/l #	74
18) Methyl Acetate	4.32	43	1067	Below Cal		92
25) 2-Butanone	6.86	43	787	0.384	ug/l #	47
31) Cyclohexane	7.66	56	4384	0.815	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	19644	4.449	ug/l #	49
38) Carbon Tetrachloride	7.66	117	27560	6.770	ug/l #	15
43) Isopropyl Acetate	8.27	43	1426	0.224	ug/l #	53
51) 4-Methyl-2-Pentanone	10.09	43	2705	0.679	ug/l #	1
52) Toluene	10.16	92	315489	37.806	ug/l	99
53) t-1,3-Dichloropropene	10.15	75	3168	3.030	ug/l #	1
65) Chlorobenzene	11.43	112	10524	1.092	ug/l	99
71) Bromoform	12.40	173	1298	3.181	ug/l #	1
73) Isopropylbenzene	12.40	105	29	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	91491	31.720	ug/l #	100
79) 2-Chlorotoluene	12.40	91	583	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	91491	105.634	ug/l #	15
88) 1,4-Dichlorobenzene	13.36	146	2493	0.499	ug/l #	56
91) 1,2-Dichlorobenzene	13.65	146	4380	0.835	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

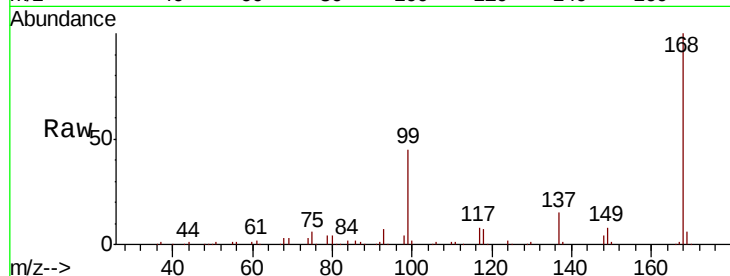
LF015RW009-190604

Tot Ion:168 Resp: 341300

Ion Ratio Lower Upper

168 100

99 44.8 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

150000

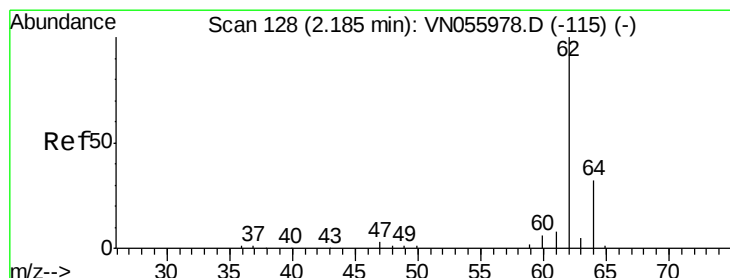
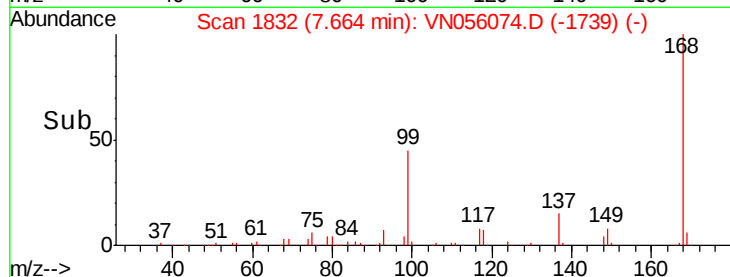
100000

50000

0

7.60 7.70 7.80

Time-->



#4

Vinyl Chloride

Concen: 1.220 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN056074.D

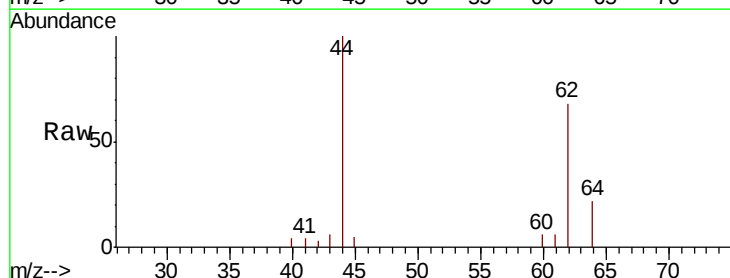
Acq: 7 Jun 2019 3:54

Tgt Ion: 62 Resp: 4528

Ion Ratio Lower Upper

62 100

64 33.1 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

2.18

3000

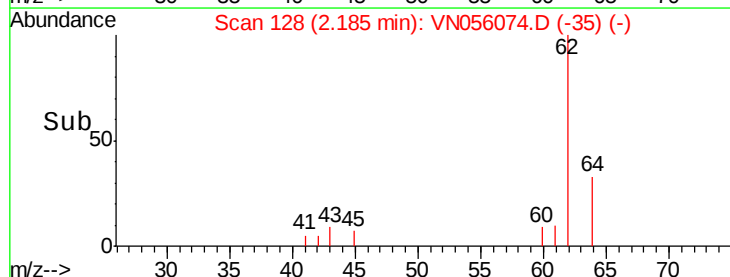
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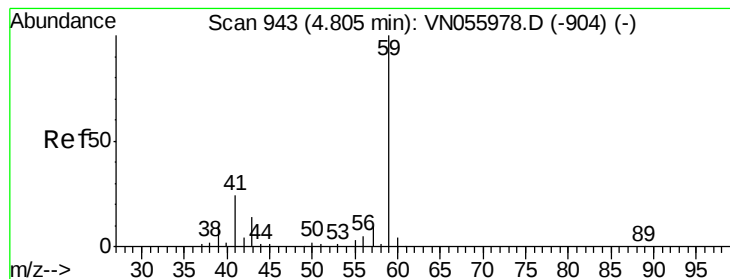
1000

0

2.15 2.20

Time-->



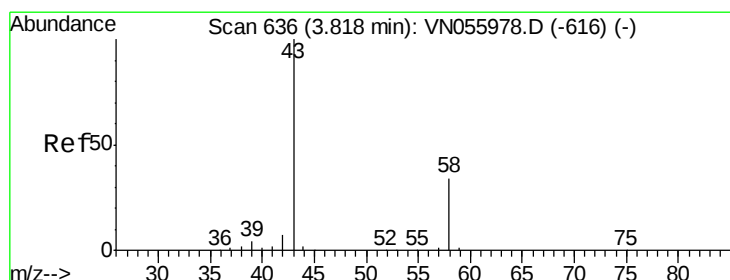
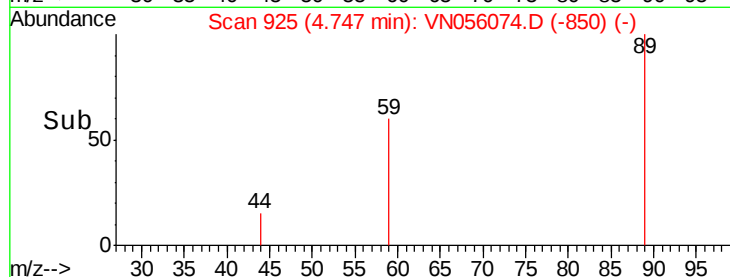
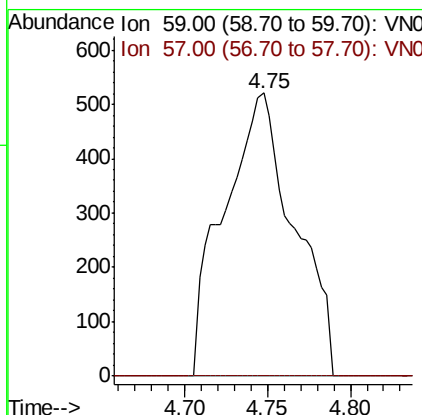
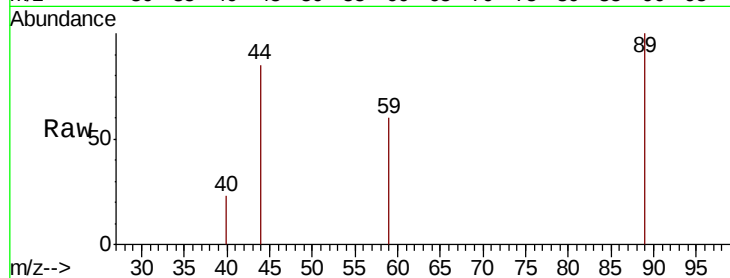


#11

Tert butyl alcohol
 Concen: 2.596 ug/l
 RT: 4.75 min Scan# 925
 Delta R.T. -0.06 min
 Lab File: VN056074.D
 Acq: 7 Jun 2019 3:54

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW009-190604

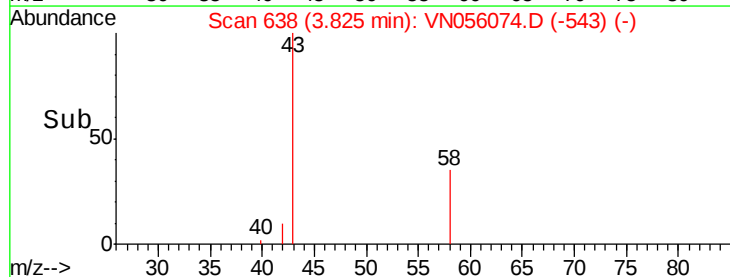
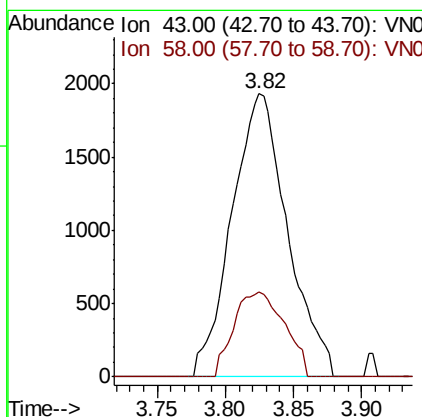
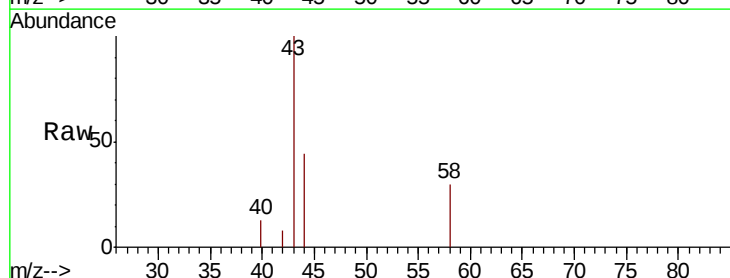
Tot Ion: 59 Resp: 1531
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

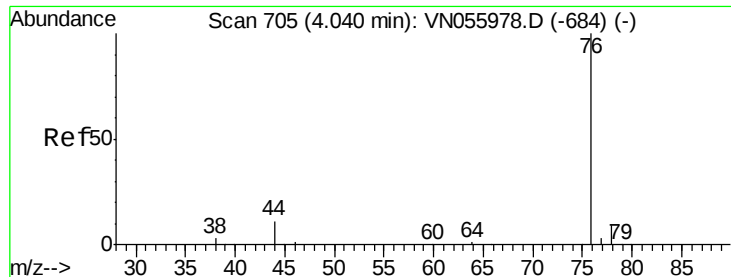


#16

Acetone
 Concen: 3.379 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN056074.D
 Acq: 7 Jun 2019 3:54

Tgt Ion: 43 Resp: 5476
 Ion Ratio Lower Upper
 43 100
 58 29.8 26.6 39.8

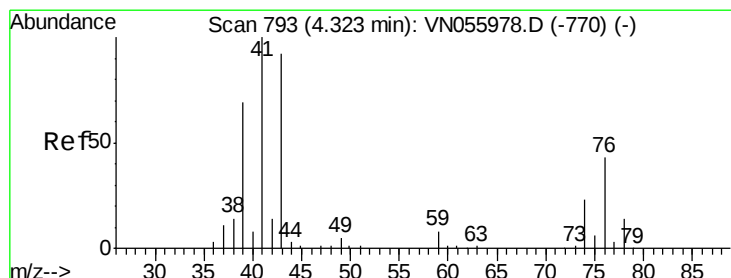
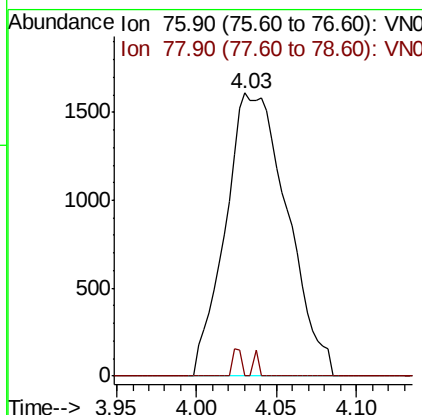
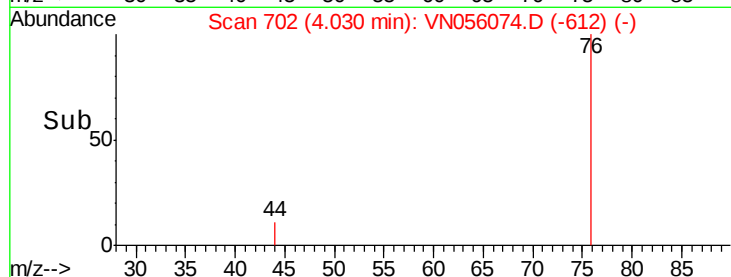
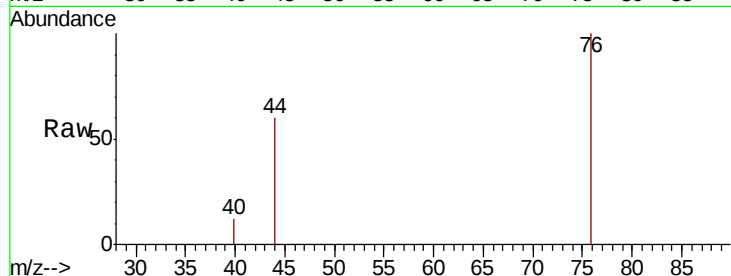




#17
Carbon Disulfide
Concen: 0.621 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.01 min
Lab File: VN056074.D
Acq: 7 Jun 2019 3:54

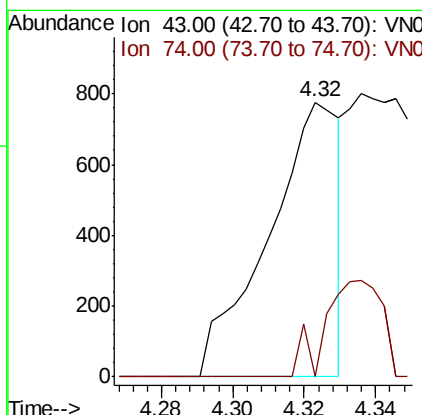
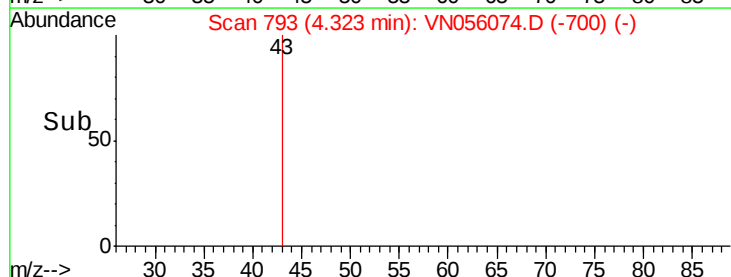
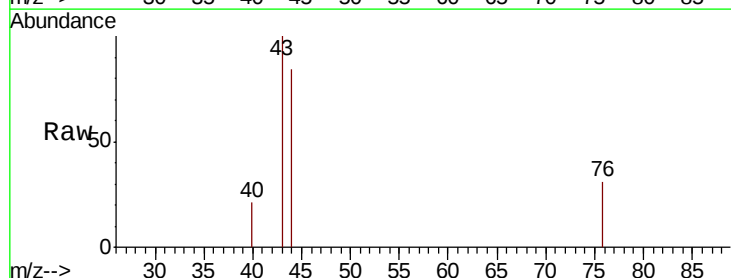
Instrument :
MSVOA_N
ClientSampleId :
LF015RW009-190604

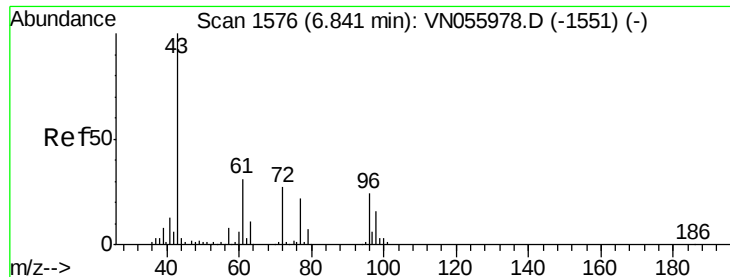
Tot Ion: 76 Resp: 4261
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN056074.D
Acq: 7 Jun 2019 3:54

Tgt Ion: 43 Resp: 1067
Ion Ratio Lower Upper
43 100
74 28.1 19.3 28.9

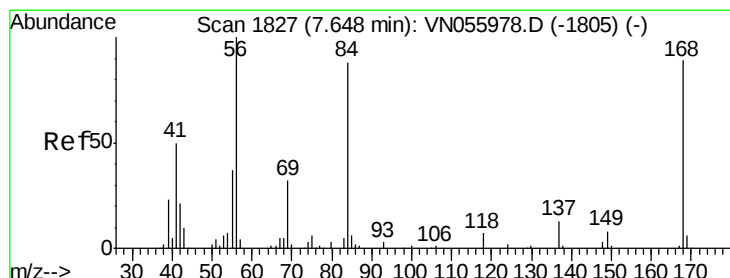
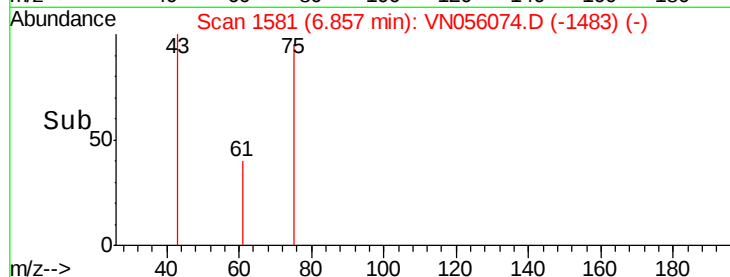
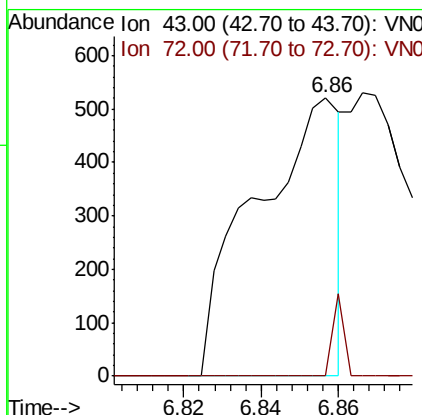
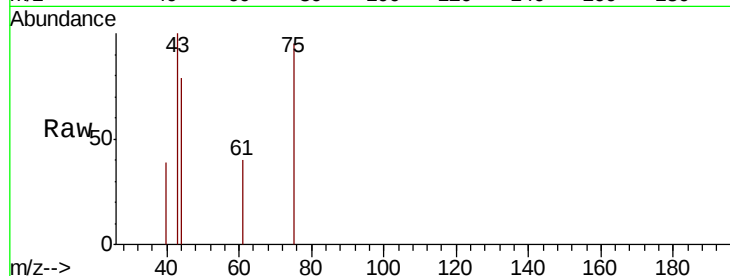




#25
2-Butanone
Concen: 0.384 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN056074.D
Acq: 7 Jun 2019 3:54

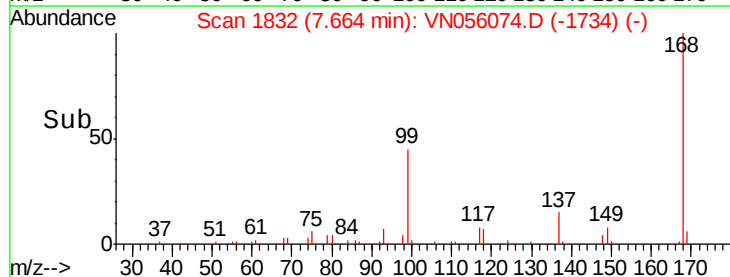
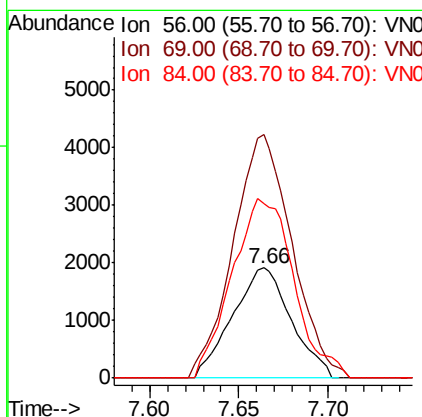
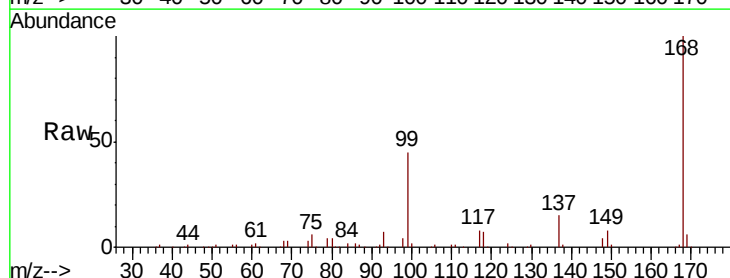
Instrument :
MSVOA_N
ClientSampleId :
LF015RW009-190604

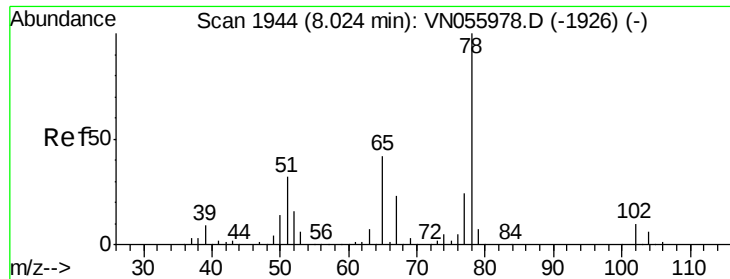
Tot Ion: 43 Resp: 787
Ion Ratio Lower Upper
43 100
72 0.0 21.9 32.9#



#31
Cyclohexane
Concen: 0.815 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN056074.D
Acq: 7 Jun 2019 3:54

Tgt Ion: 56 Resp: 4384
Ion Ratio Lower Upper
56 100
69 221.2 25.6 38.4#
84 159.0 67.4 101.0#

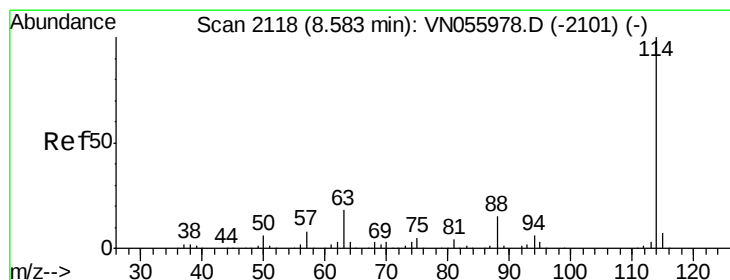
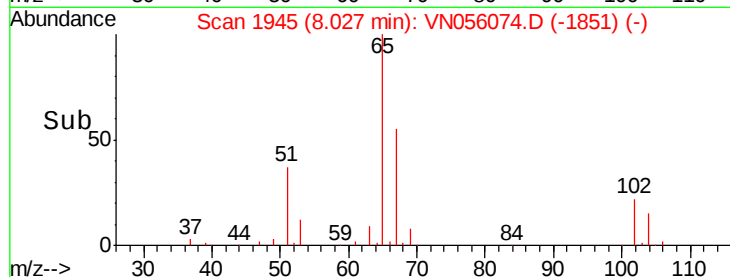
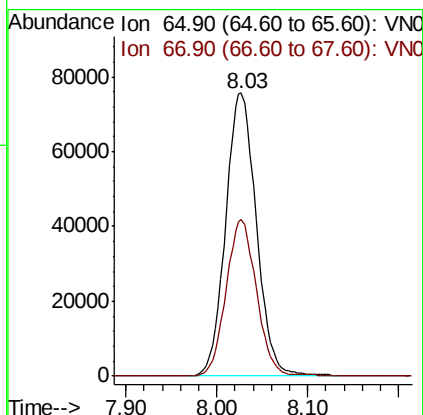
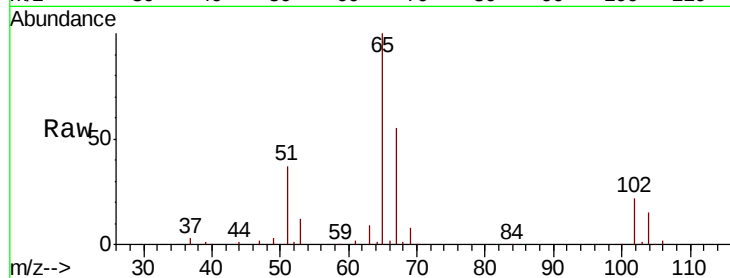




#33
 1,2-Dichloroethane-d4
 Concen: 52.384 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056074.D
 Acq: 7 Jun 2019 3:54

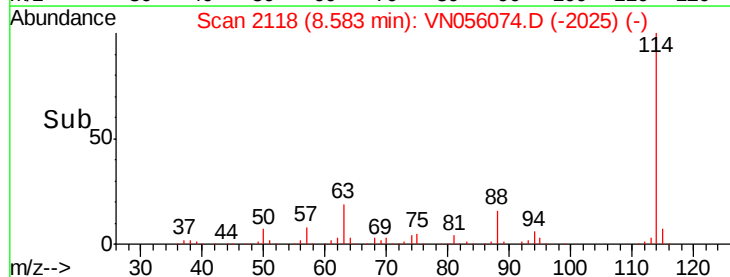
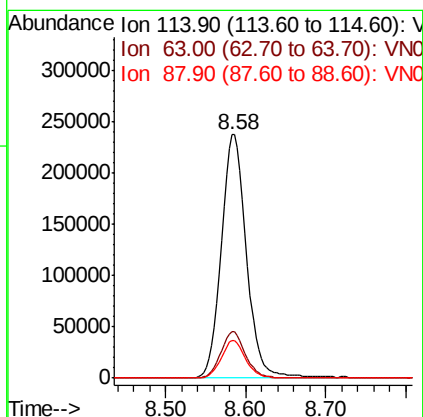
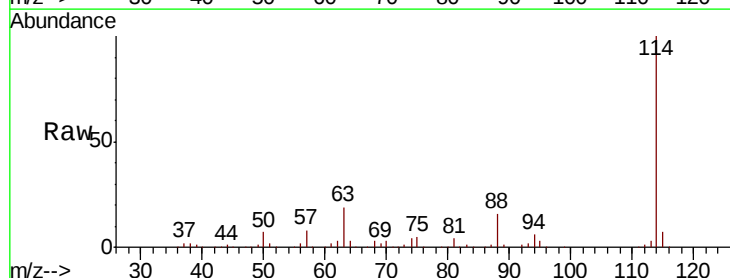
Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW009-190604

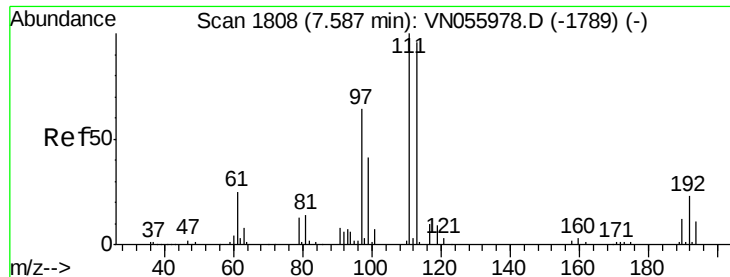
Tot Ion: 65 Resp: 177520
 Ion Ratio Lower Upper
 65 100
 67 54.9 0.0 109.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056074.D
 Acq: 7 Jun 2019 3:54

Tgt Ion: 114 Resp: 513504
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 39.2
 88 15.6 0.0 31.0

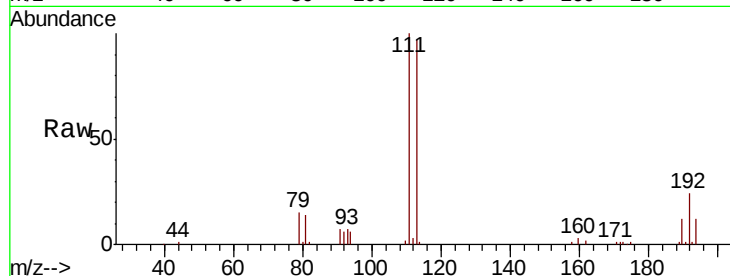




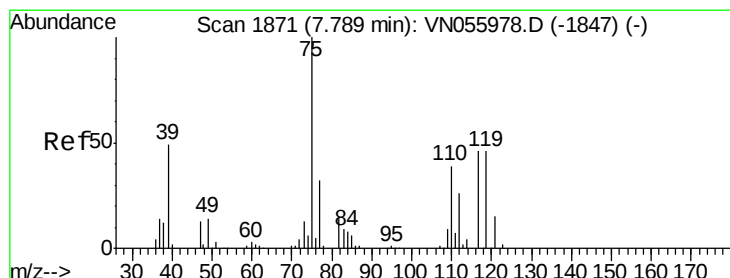
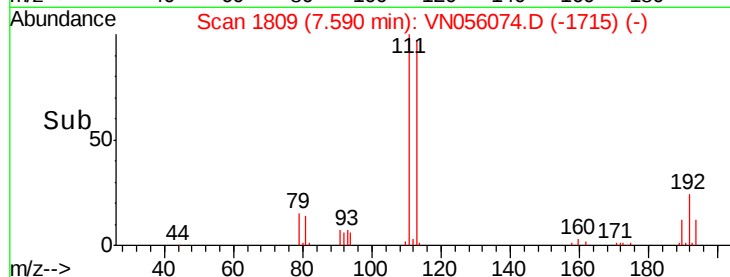
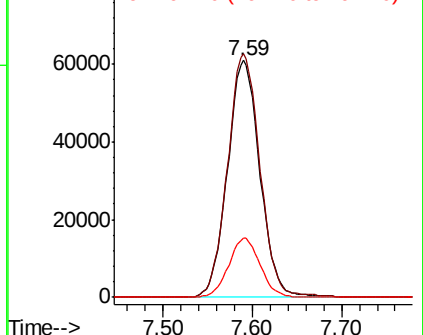
#35
 Dibromofluoromethane
 Concen: 48.661 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056074.D
 Acq: 7 Jun 2019 3:54

Instrument :
 MSVOA_N
 ClientSampleId :
 LF015RW009-190604

Tot Ion:113 Resp: 153306
 Ion Ratio Lower Upper
 113 100
 111 102.7 81.9 122.9
 192 24.3 19.5 29.3

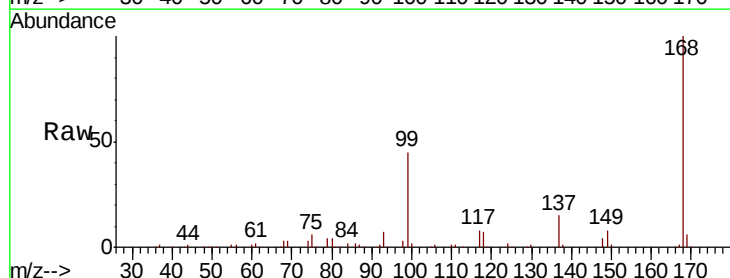


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

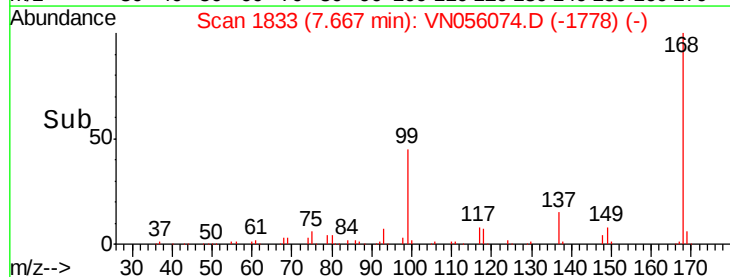
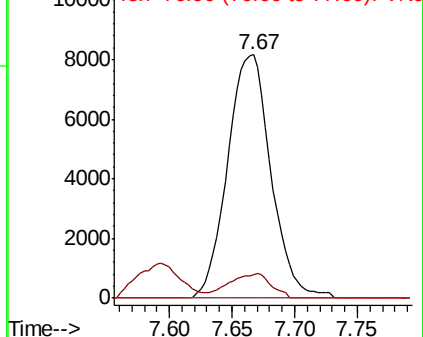


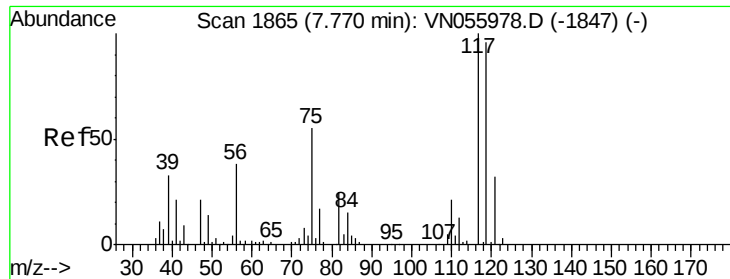
#36
 1,1-Dichloropropene
 Concen: 4.449 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN056074.D
 Acq: 7 Jun 2019 3:54

Tgt Ion: 75 Resp: 19644
 Ion Ratio Lower Upper
 75 100
 110 9.9 19.0 57.0#
 77 0.0 25.1 37.7#



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





#38

Carbon Tetrachloride

Concen: 6.770 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604

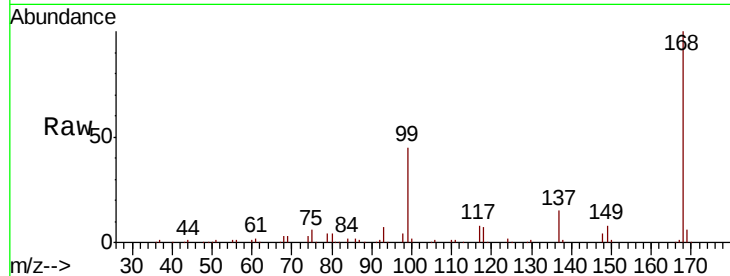
Tot Ion:117 Resp: 27560

Ion Ratio Lower Upper

117 100

119 5.5 79.0 118.6#

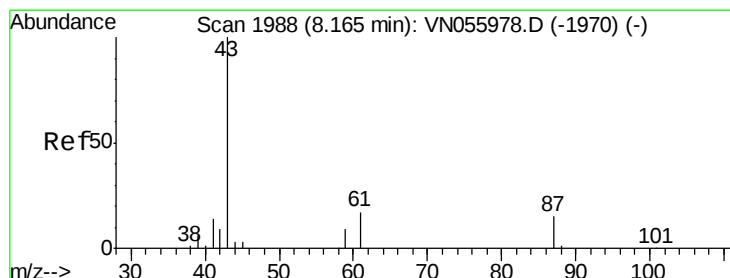
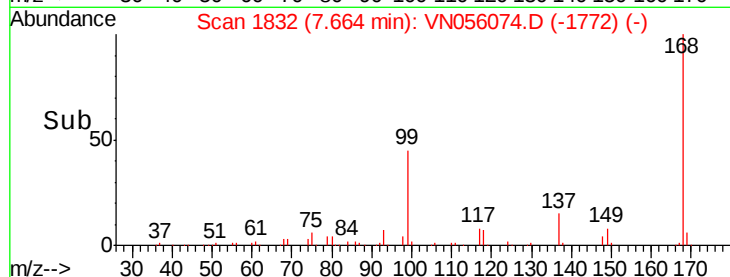
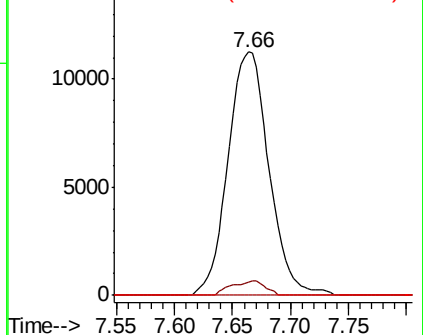
121 0.0 24.7 37.1#



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: 0.224 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

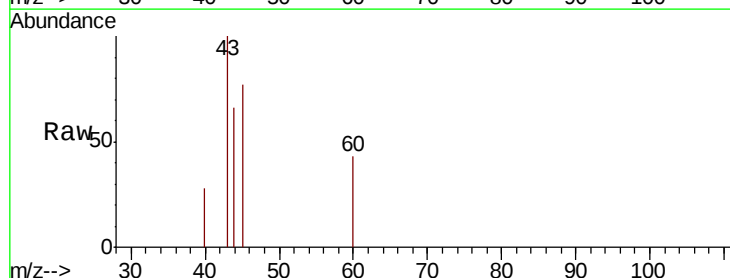
Tgt Ion: 43 Resp: 1426

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

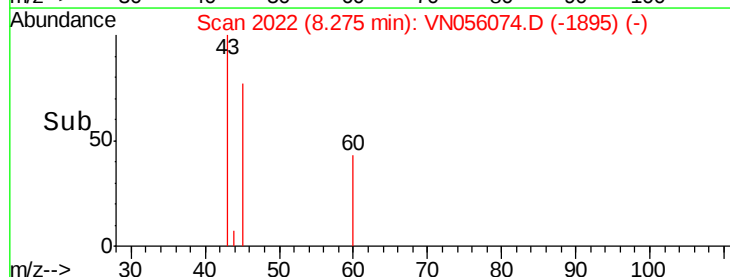
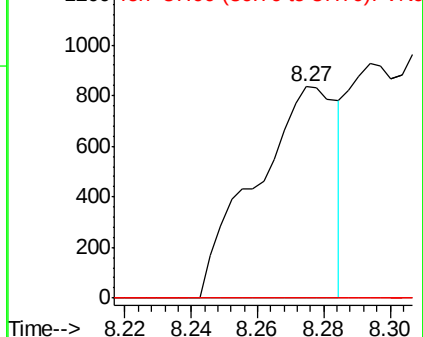
87 0.0 11.4 17.2#

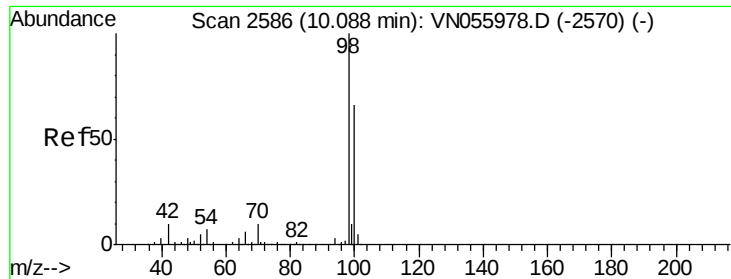


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 52.941 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

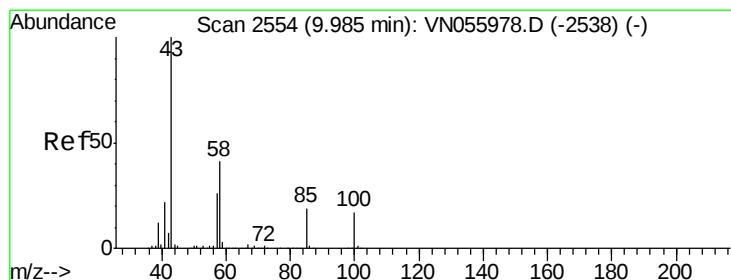
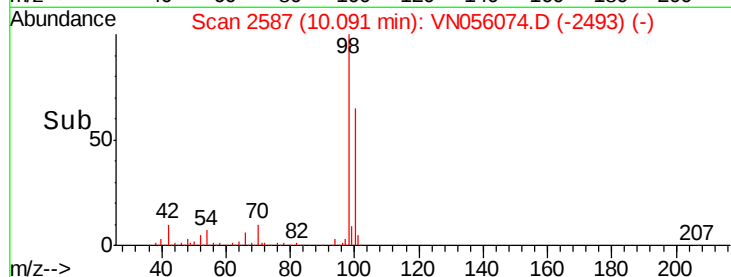
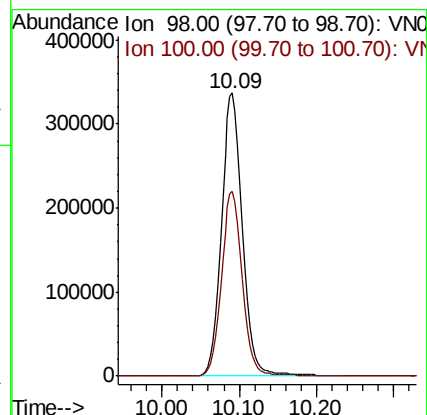
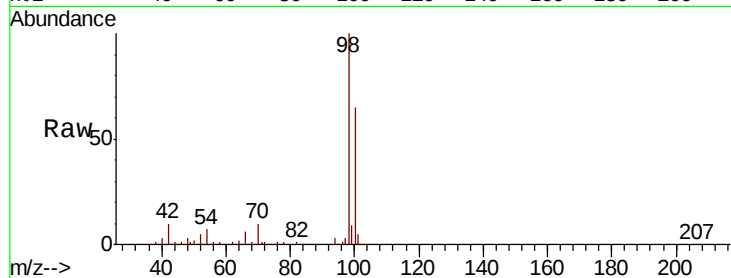
LF015RW009-190604

Tot Ion: 98 Resp: 641813

Ion Ratio Lower Upper

98 100

100 64.9 51.9 77.9



#51

4-Methyl-2-Pentanone

Concen: 0.679 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN056074.D

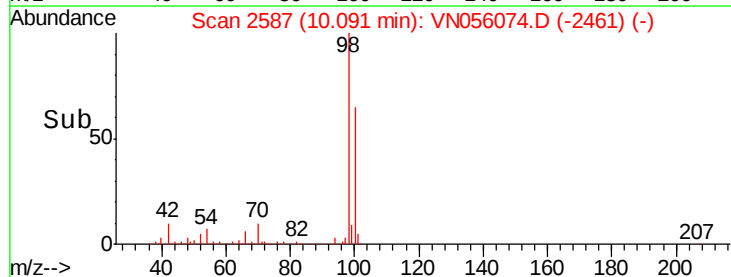
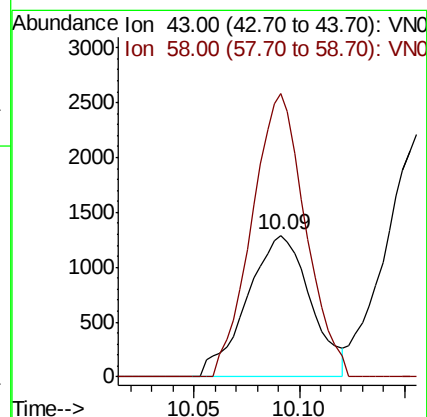
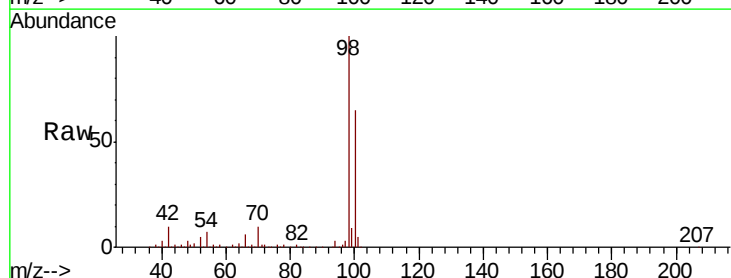
Acq: 7 Jun 2019 3:54

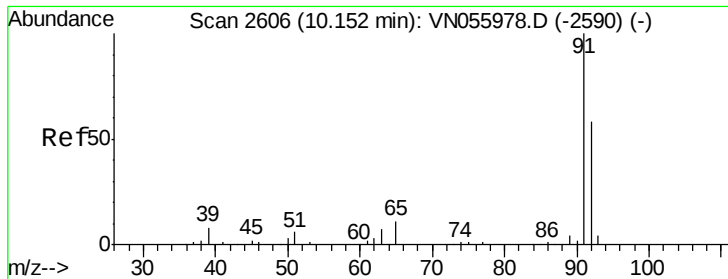
Tgt Ion: 43 Resp: 2705

Ion Ratio Lower Upper

43 100

58 168.5 32.1 48.1#





#52

Toluene

Concen: 37.806 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

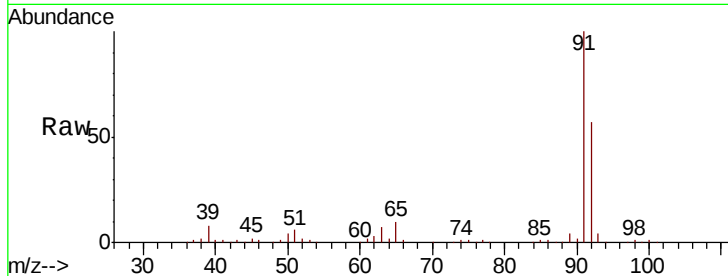
LF015RW009-190604

Tot Ion: 92 Resp: 315489

Ion Ratio Lower Upper

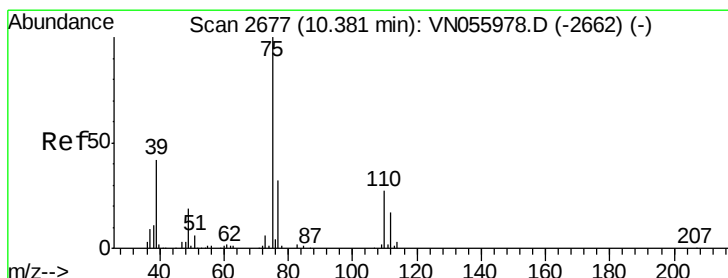
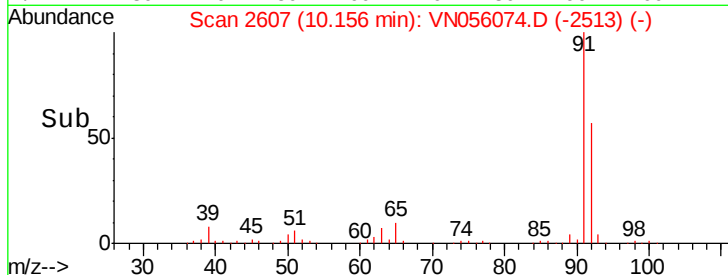
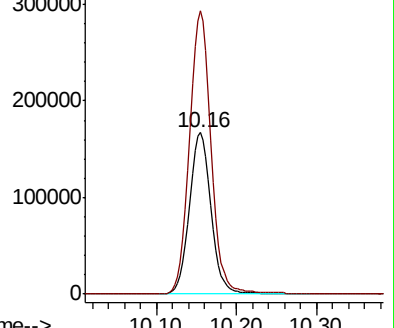
92 100

91 175.0 139.4 209.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#53

t-1,3-Dichloropropene

Concen: 3.030 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.23 min

Lab File: VN056074.D

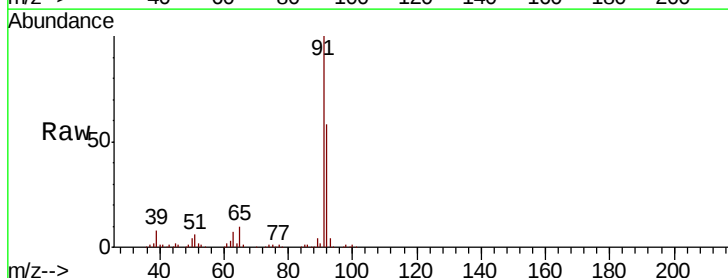
Acq: 7 Jun 2019 3:54

Tgt Ion: 75 Resp: 3168

Ion Ratio Lower Upper

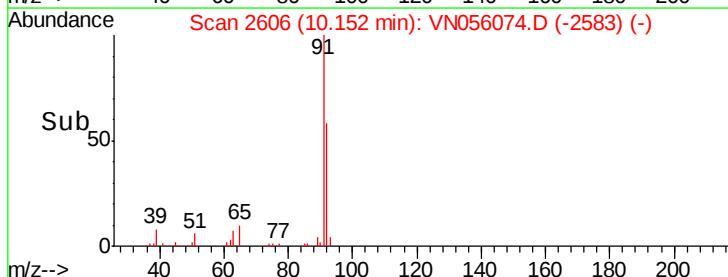
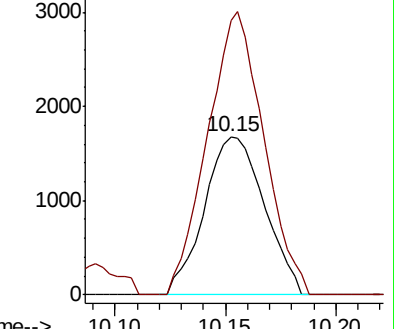
75 100

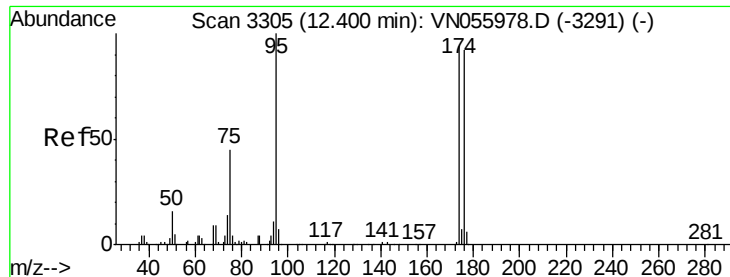
77 173.6 25.8 38.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0





#62

4-Bromofluorobenzene

Concen: 49.027 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604

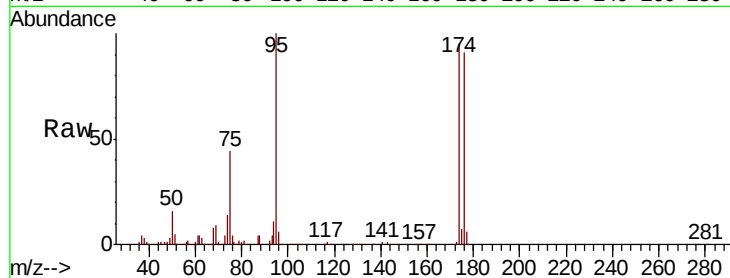
Tot Ion: 95 Resp: 202127

Ion Ratio Lower Upper

95 100

174 95.9 0.0 191.0

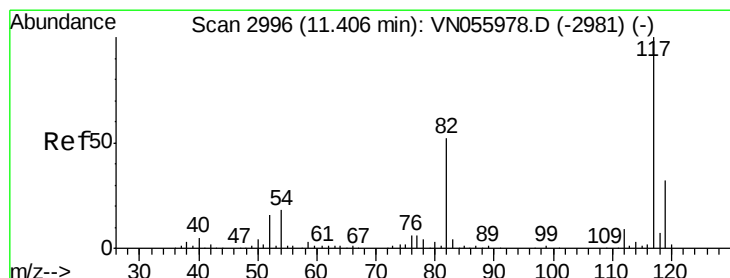
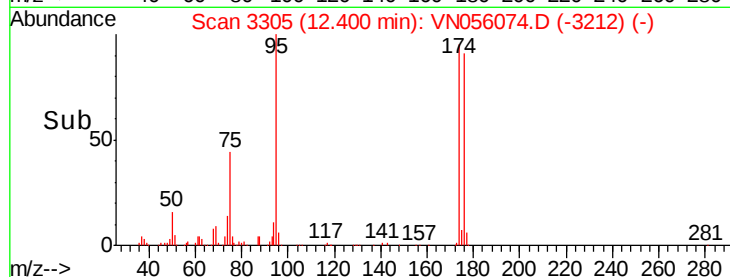
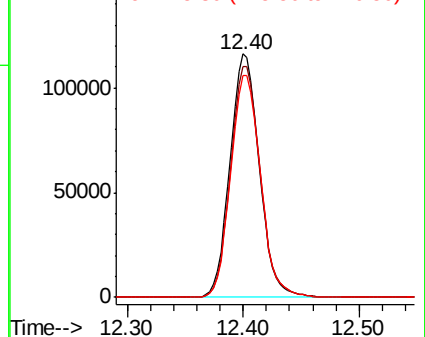
176 92.9 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

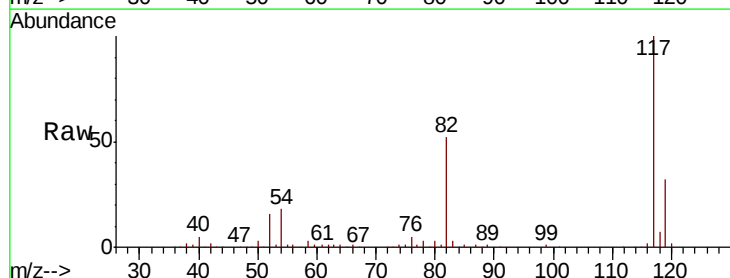
Tgt Ion: 117 Resp: 484270

Ion Ratio Lower Upper

117 100

82 51.7 41.8 62.8

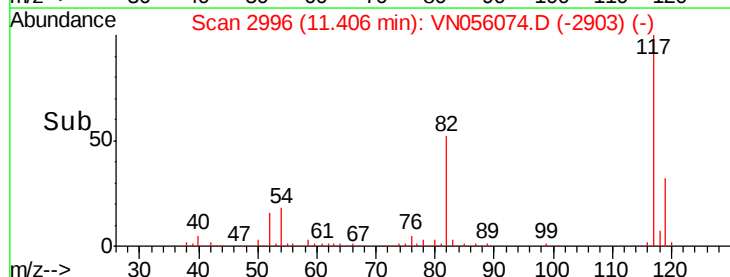
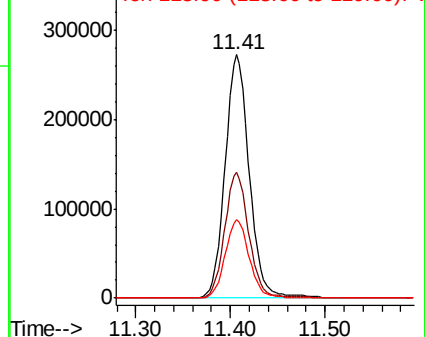
119 32.0 25.4 38.0

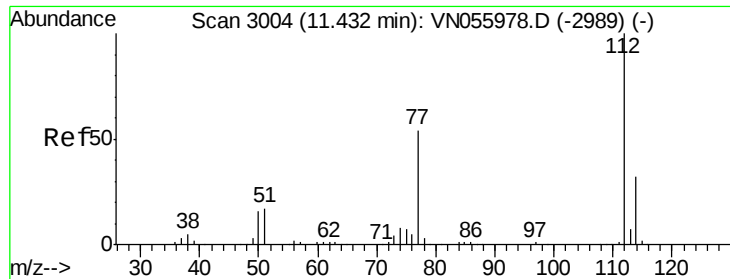


Abundance Ion 116.90 (116.60 to 117.60): VN055978.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN055978.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN055978.D (-2981) (-)

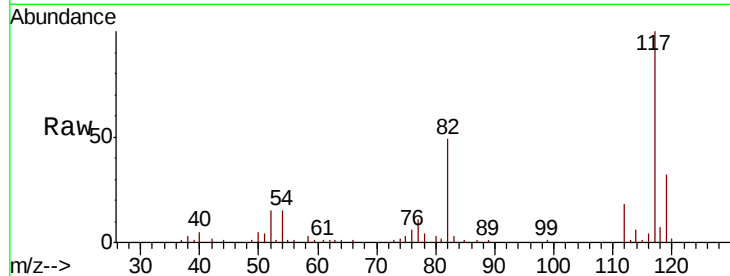




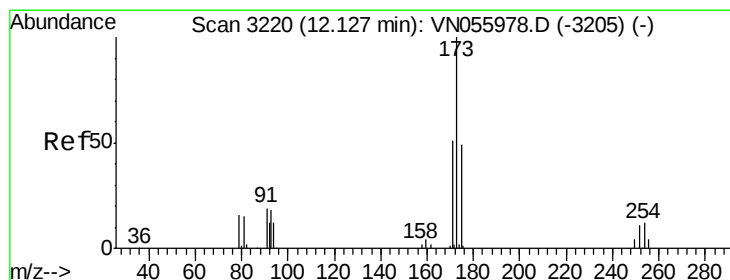
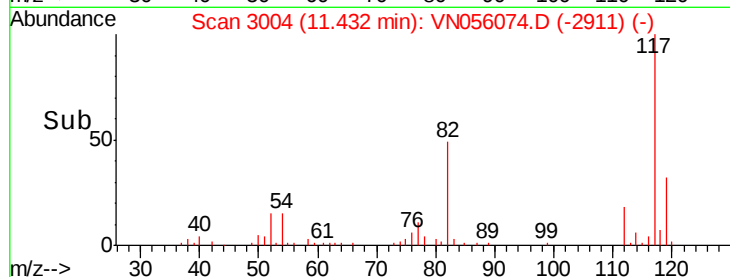
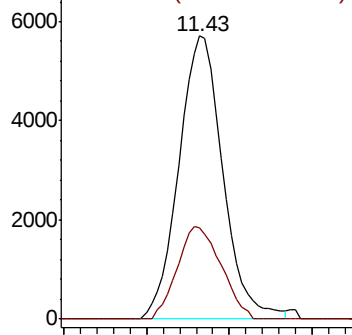
#65
Chlorobenzene
Concen: 1.092 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN056074.D
Acq: 7 Jun 2019 3:54

Instrument :
MSVOA_N
ClientSampleId :
LF015RW009-190604

Tot Ion:112 Resp: 10524
Ion Ratio Lower Upper
112 100
114 32.1 26.2 39.4

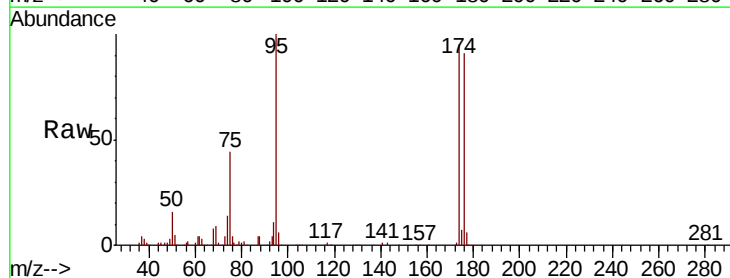


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

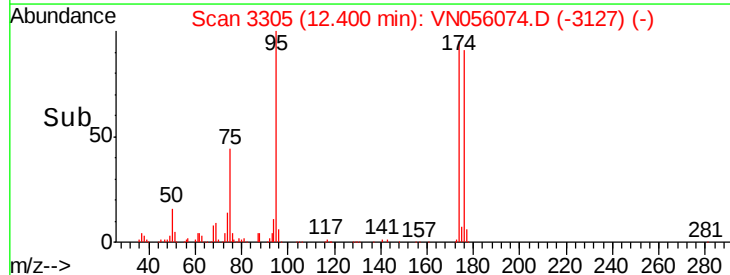
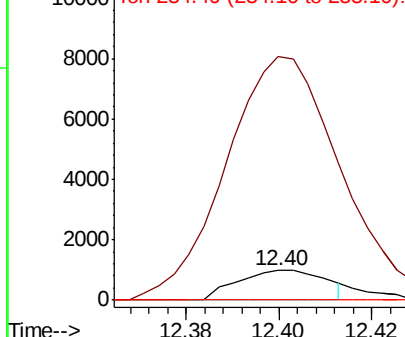


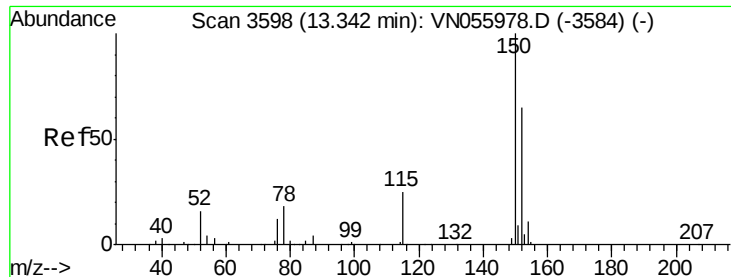
#71
Bromoform
Concen: 3.181 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN056074.D
Acq: 7 Jun 2019 3:54

Tgt Ion:173 Resp: 1298
Ion Ratio Lower Upper
173 100
175 929.6 24.3 72.8#
254 0.0 0.0 0.0



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: VN056074.D

Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604

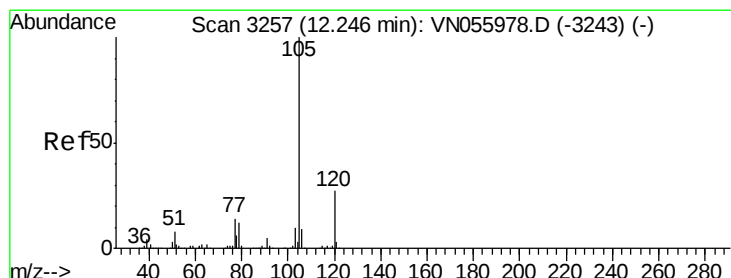
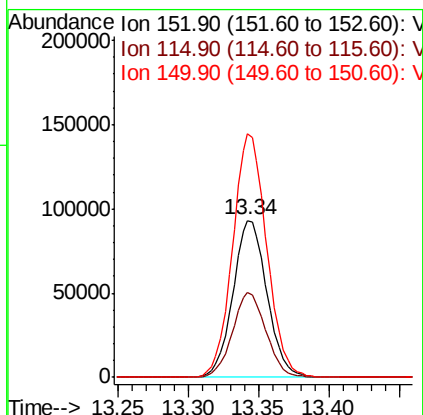
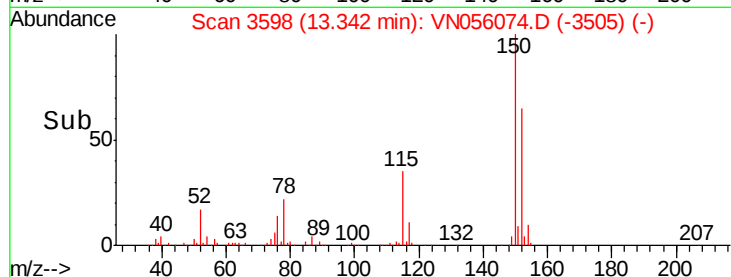
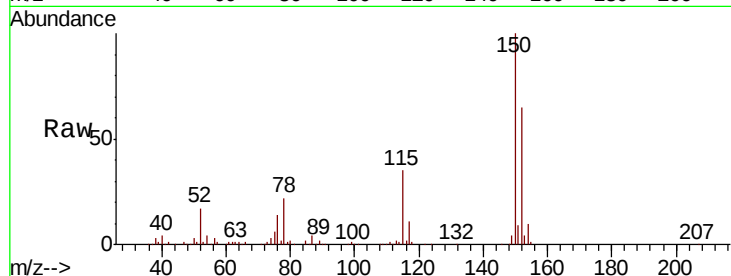
Tot Ion:152 Resp: 156753

Ion Ratio Lower Upper

152 100

115 53.3 27.0 81.0

150 155.7 0.0 343.2



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN056074.D

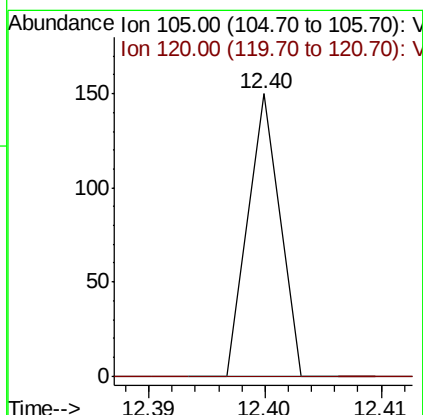
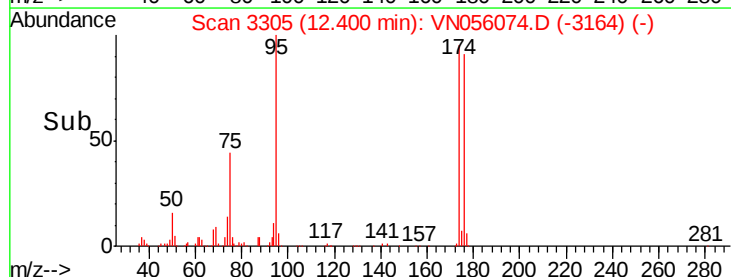
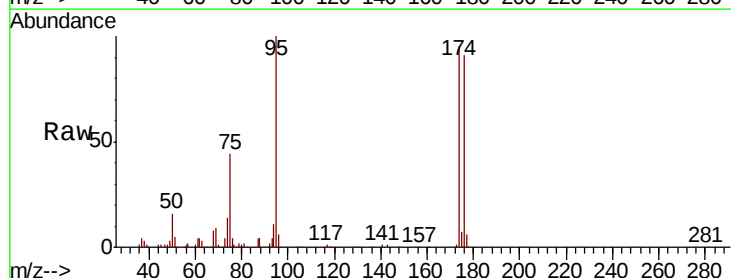
Acq: 7 Jun 2019 3:54

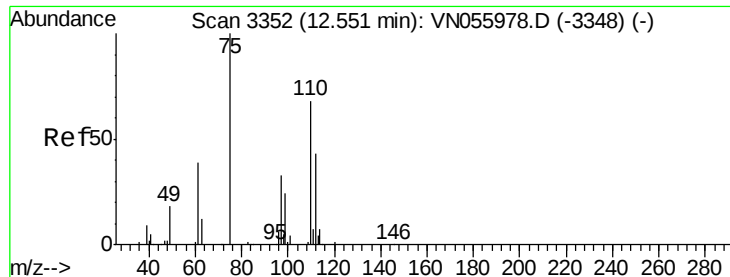
Tgt Ion:105 Resp: 29

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#





#76

1,2,3-Trichloropropane

Concen: 31.720 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

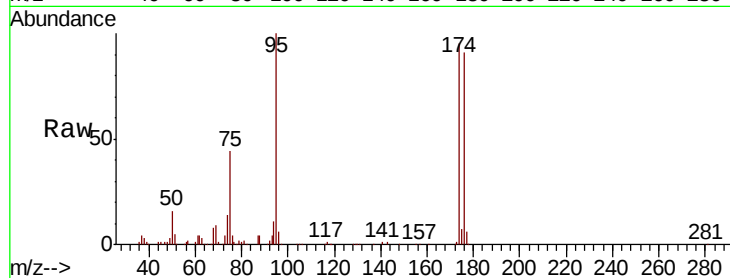
LF015RW009-190604

Tot Ion: 75 Resp: 91491

Ion Ratio Lower Upper

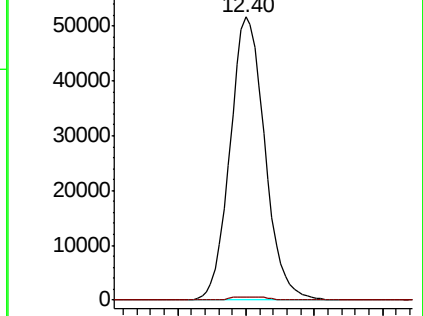
75 100

77 1.2 0.0 0.0#

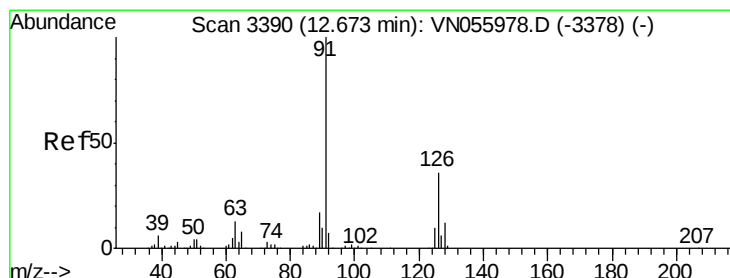
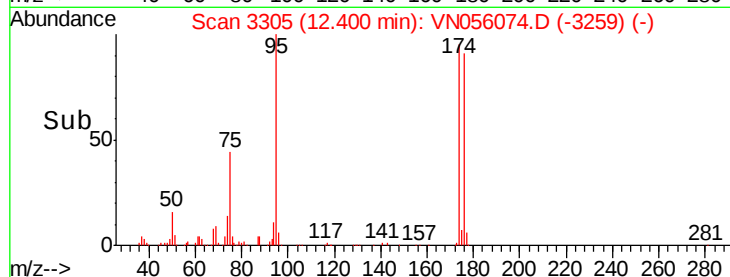


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3304

Delta R.T. -0.28 min

Lab File: VN056074.D

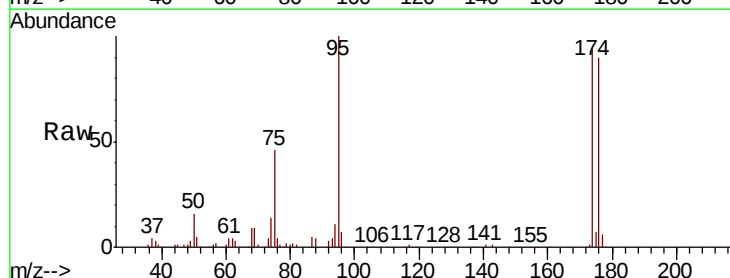
Acq: 7 Jun 2019 3:54

Tgt Ion: 91 Resp: 583

Ion Ratio Lower Upper

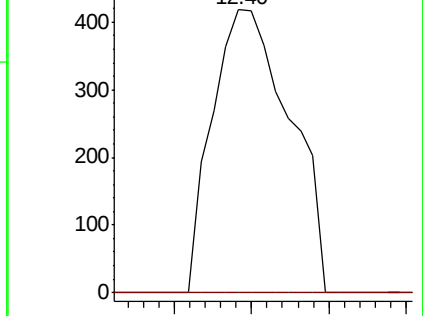
91 100

126 0.0 18.1 54.4#

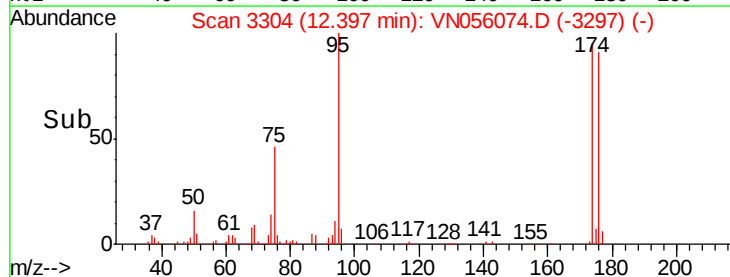


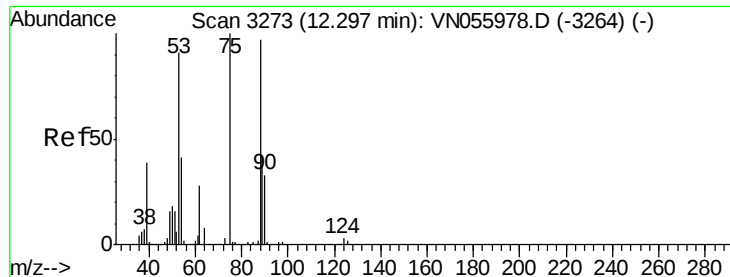
Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V



Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 105.634 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604

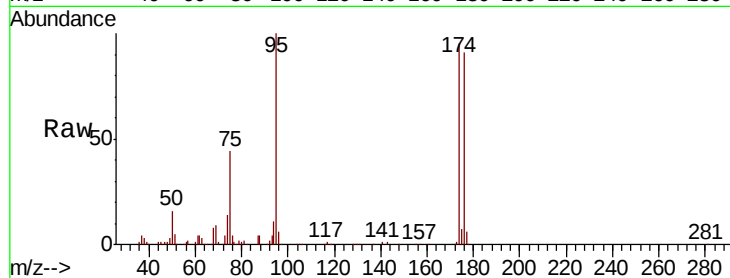
Tot Ion: 75 Resp: 91491

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

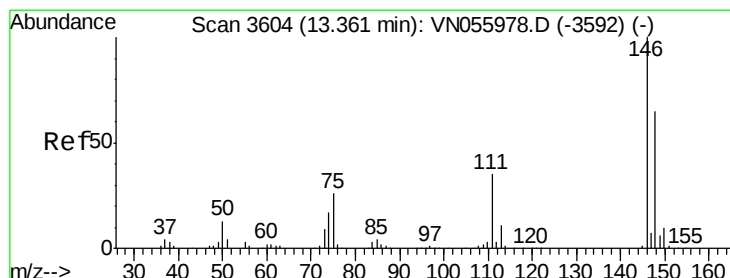
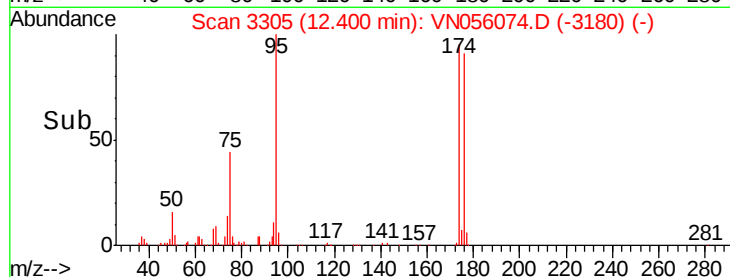
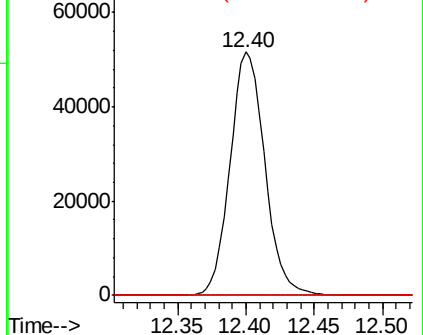
89 0.0 36.9 55.3#



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



#88

1,4-Dichlorobenzene

Concen: 0.499 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN056074.D

Acq: 7 Jun 2019 3:54

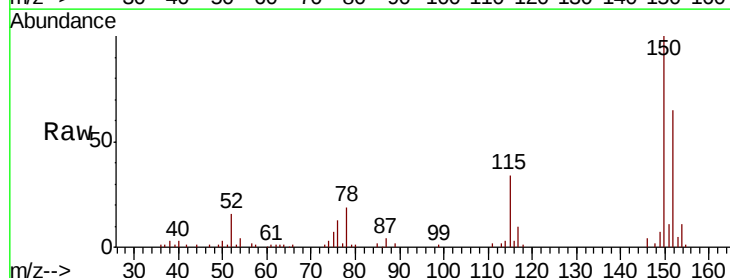
Tgt Ion: 146 Resp: 2493

Ion Ratio Lower Upper

146 100

111 91.8 18.1 54.4#

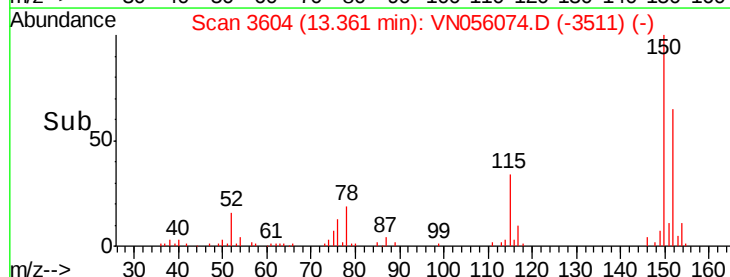
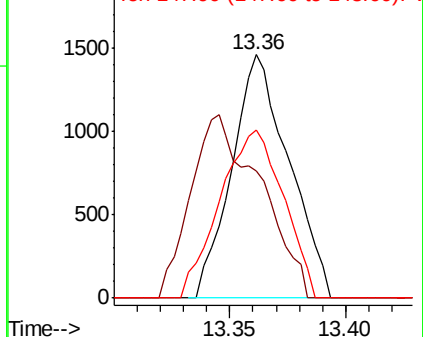
148 76.9 32.1 96.5

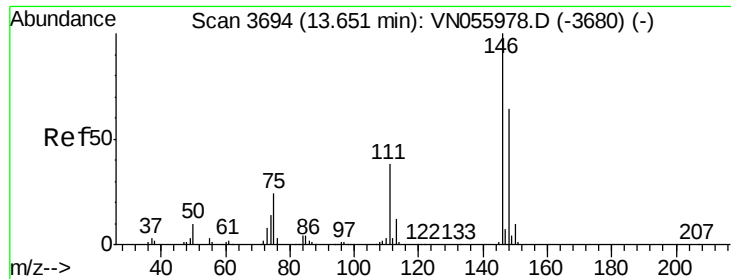


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 0.835 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN056074.D

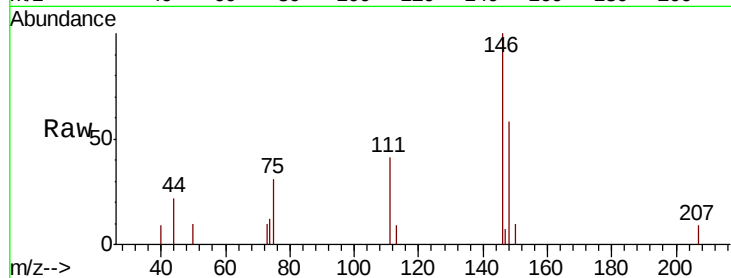
Acq: 7 Jun 2019 3:54

Instrument :

MSVOA_N

ClientSampleId :

LF015RW009-190604



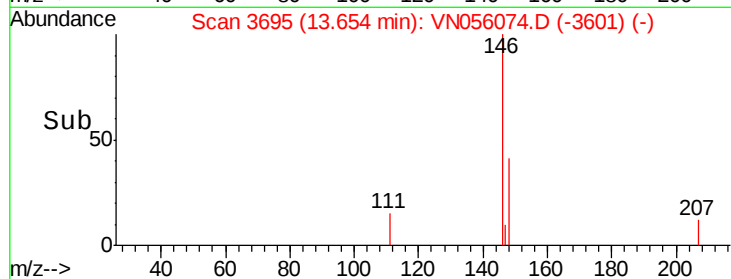
Tot Ion:146 Resp: 4380

Ion Ratio Lower Upper

146 100

111 39.6 19.1 57.5

148 62.0 31.9 95.9



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

