

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052019\
 Data File : VN055677.D
 Acq On : 20 May 2019 16:28
 Operator : JC/SP
 Sample : K2951-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

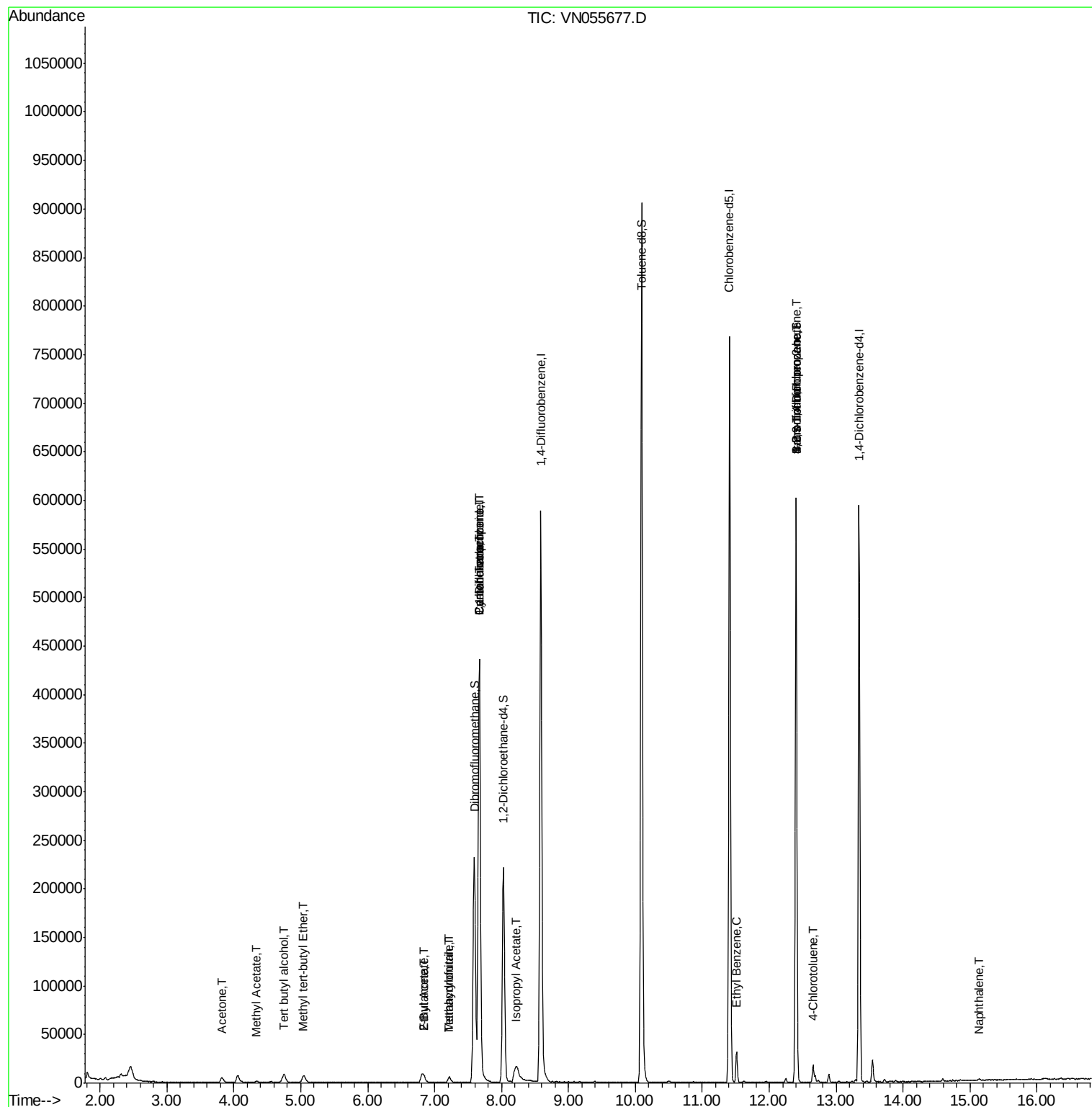
Quant Time: May 21 04:38:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

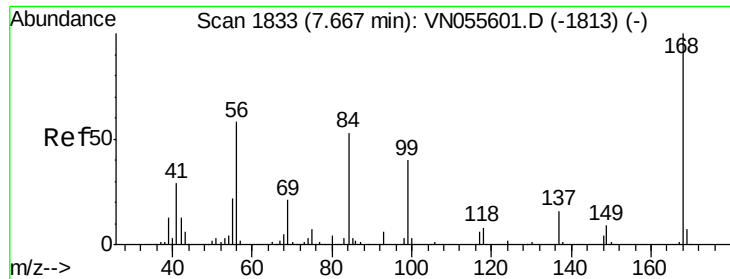
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	420117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	591408	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	497063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	176064	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	188880	41.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.02%	
35) Dibromofluoromethane	7.59	113	180715	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
50) Toluene-d8	10.09	98	682623	48.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.10%	
62) 4-Bromofluorobenzene	12.40	95	209896	42.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.58%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.75	59	9524	11.090	ug/l #	74
16) Acetone	3.82	43	9600	5.108	ug/l	97
18) Methyl Acetate	4.33	43	2809	0.697	ug/l #	79
19) Methyl tert-butyl Ether	5.04	73	13201	1.040	ug/l	100
25) 2-Butanone	6.84	43	7771	2.957	ug/l	90
29) Tetrahydrofuran	7.22	42	4804	2.759	ug/l	98
31) Cyclohexane	7.66	56	5872	0.860	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	24632	4.672	ug/l #	49
37) Ethyl Acetate	6.84	43	7771	1.633	ug/l #	67
38) Carbon Tetrachloride	7.67	117	34076	6.048	ug/l #	15
41) Methacrylonitrile	7.22	41	3067	1.508	ug/l #	100
43) Isopropyl Acetate	8.22	43	33552	4.054	ug/l #	53
67) Ethyl Benzene	11.51	91	24072	1.344	ug/l	99
71) Bromoform	12.40	173	1260	0.368	ug/l #	1
73) Isopropylbenzene	12.25	105	3171	Below Cal		99
76) 1,2,3-Trichloropropane	12.40	75	94226	26.228	ug/l #	100
79) 2-Chlorotoluene	12.65	91	2177	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.65	105	13198	Below Cal		76
81) trans-1,4-Dichloro-2-buten	12.40	75	94226	67.420	ug/l #	17
82) 4-Chlorotoluene	12.65	91	2177	0.236	ug/l #	40
83) tert-Butylbenzene	13.23	119	454	Below Cal	#	28
84) 1,2,4-Trimethylbenzene	13.04	105	821	Below Cal		74
85) sec-Butylbenzene	13.17	105	302	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	1798	Below Cal		96
90) Hexachloroethane	13.99	117	762	Below Cal	#	3
95) Naphthalene	15.14	128	2181	1.994	ug/l #	71

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

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QLast Update : Fri May 17 23:54:12 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: VN055677.D

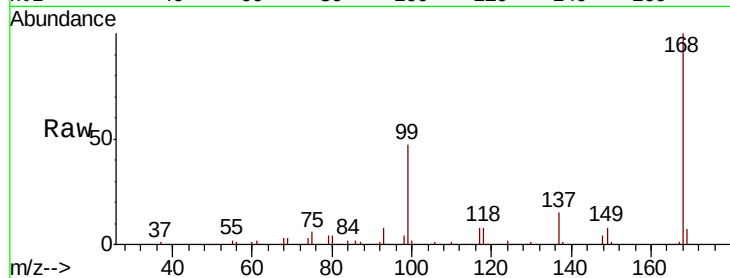
Acq: 20 May 2019 16:28

Tot Ion:168 Resp: 420117

Ion Ratio Lower Upper

168 100

99 46.6 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055677.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055677.D (-1740) (-)

7.67

150000

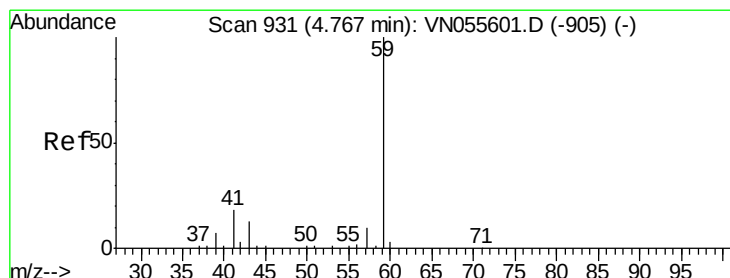
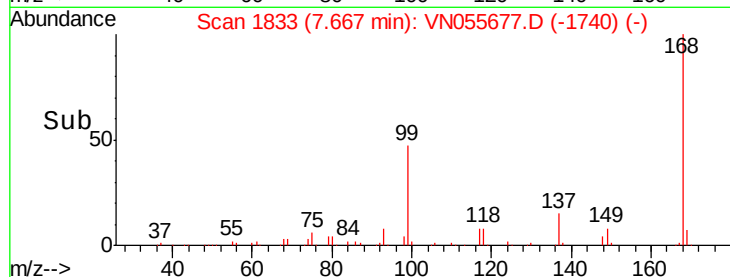
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 11.090 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.02 min

Lab File: VN055677.D

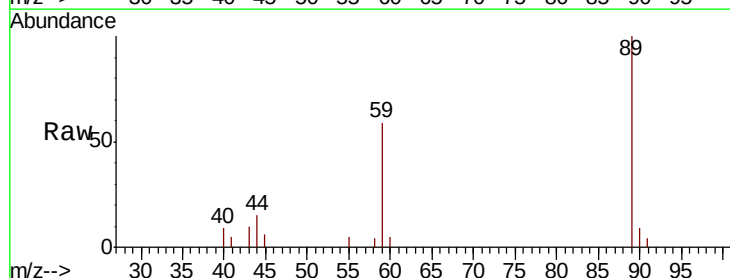
Acq: 20 May 2019 16:28

Tgt Ion: 59 Resp: 9524

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055677.D (-838) (-)

Ion 57.00 (56.70 to 57.70): VN055677.D (-838) (-)

4.75

2500

2000

1500

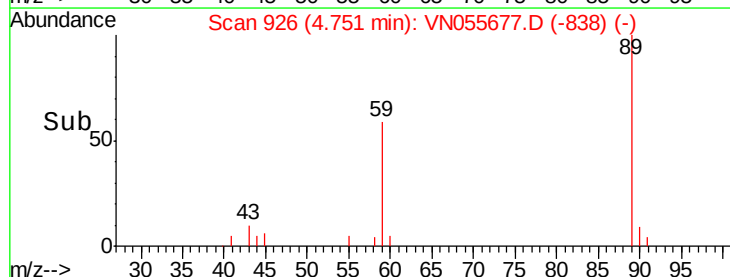
1000

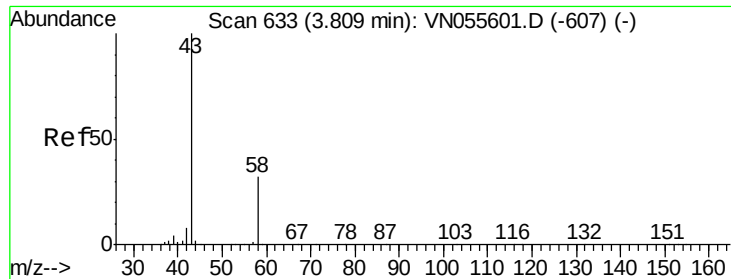
500

0

Time-->

4.70 4.80





#16

Acetone

Concen: 5.108 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN055677.D

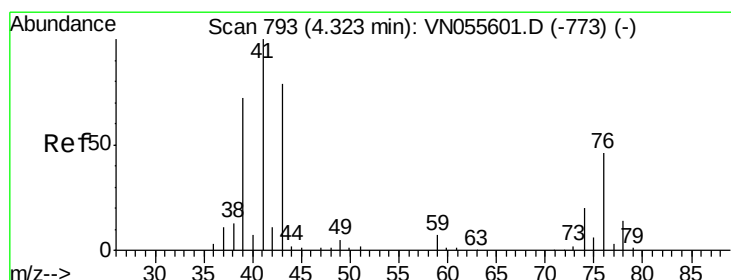
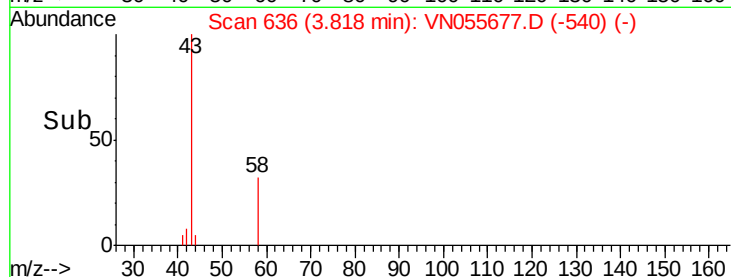
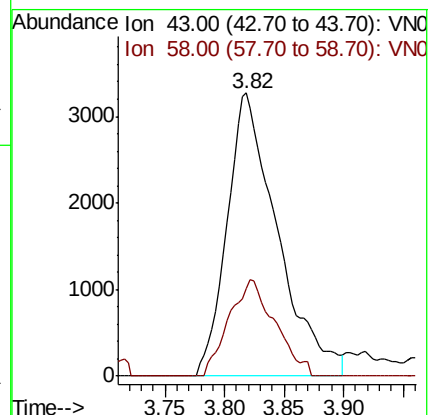
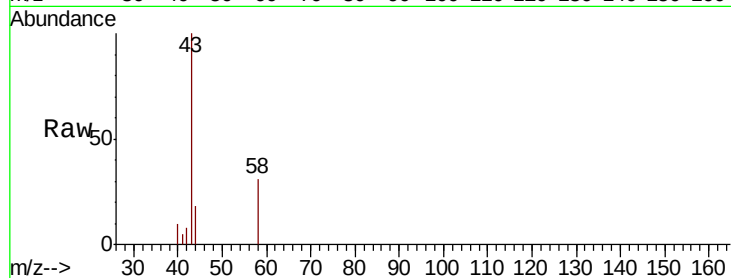
Acq: 20 May 2019 16:28

Tot Ion: 43 Resp: 9600

Ion Ratio Lower Upper

43 100

58 30.9 26.0 39.0



#18

Methyl Acetate

Concen: 0.697 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN055677.D

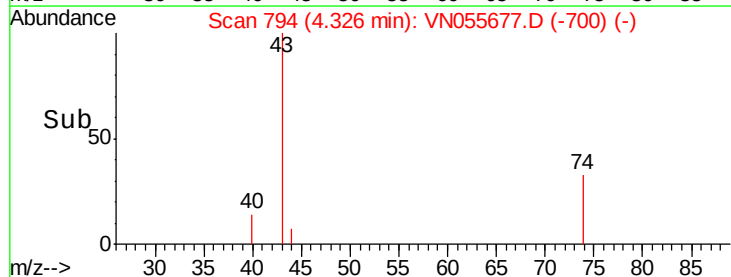
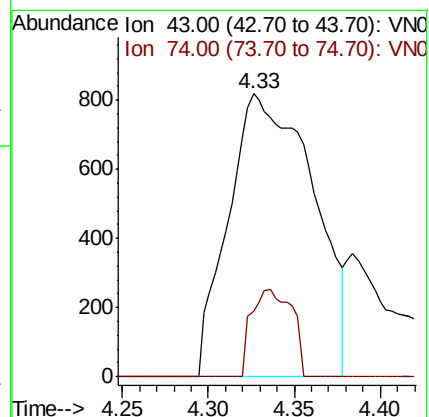
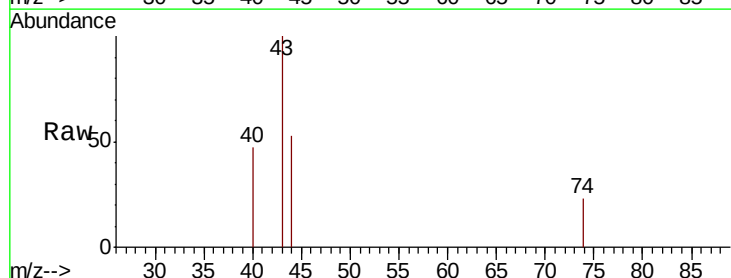
Acq: 20 May 2019 16:28

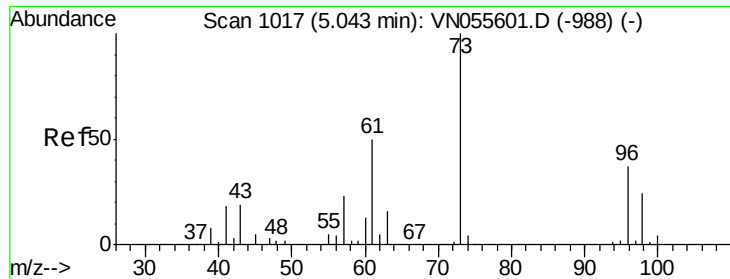
Tgt Ion: 43 Resp: 2809

Ion Ratio Lower Upper

43 100

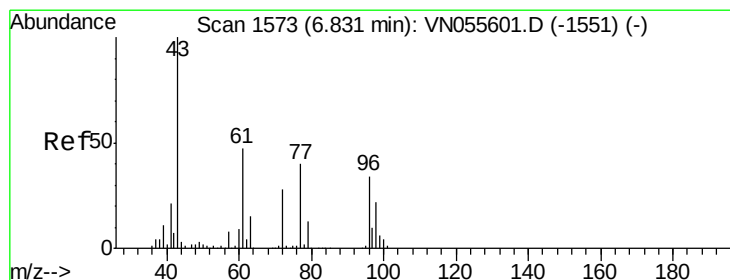
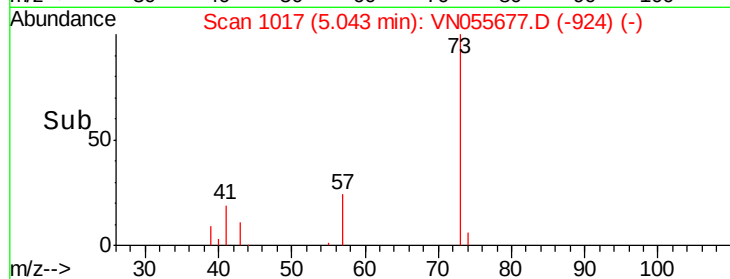
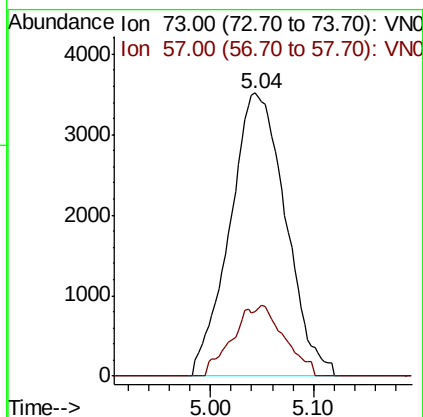
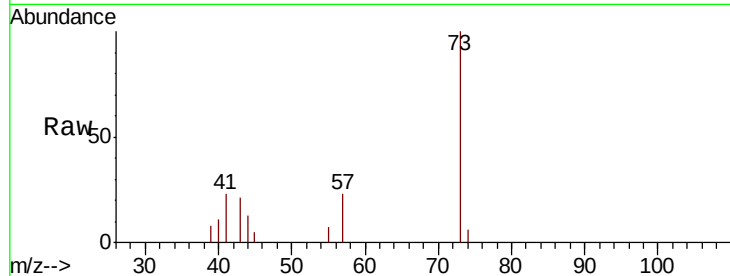
74 14.6 19.9 29.9#





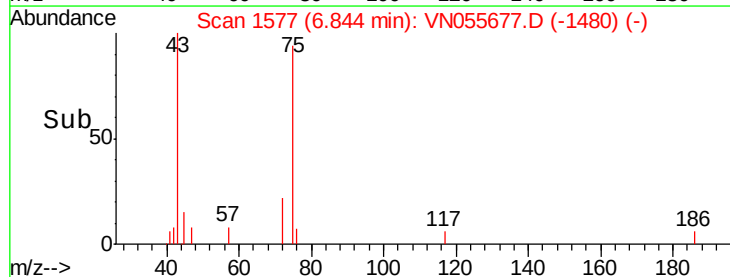
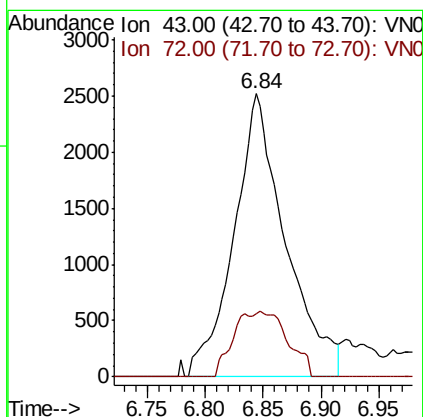
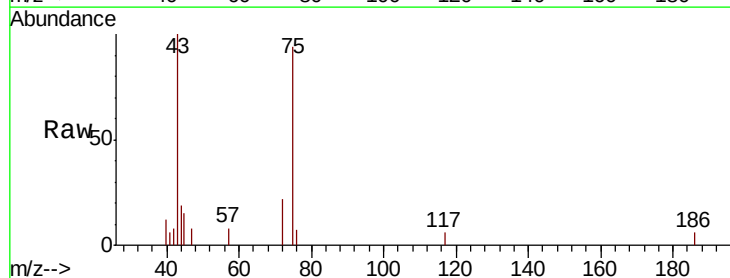
#19
Methyl tert-butyl Ether
Concen: 1.040 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

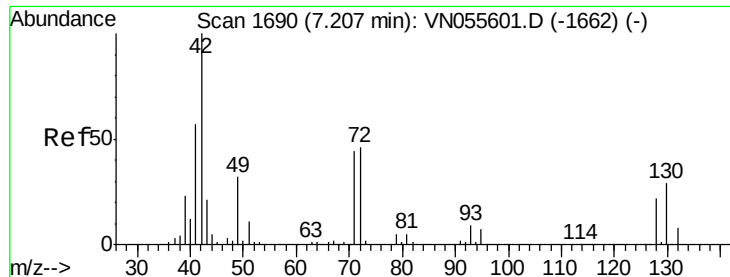
Tot Ion: 73 Resp: 13201
Ion Ratio Lower Upper
73 100
57 22.8 18.2 27.2



#25
2-Butanone
Concen: 2.957 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

Tgt Ion: 43 Resp: 7771
Ion Ratio Lower Upper
43 100
72 22.5 22.3 33.5





#29

Tetrahydrofuran

Concen: 2.759 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

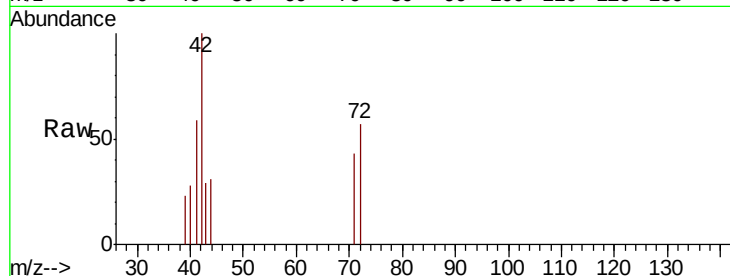
Tot Ion: 42 Resp: 4804

Ion Ratio Lower Upper

42 100

72 46.1 36.5 54.7

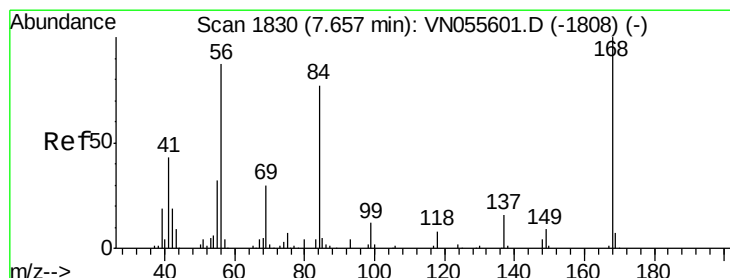
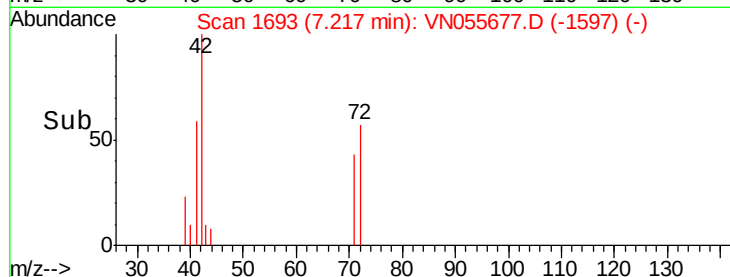
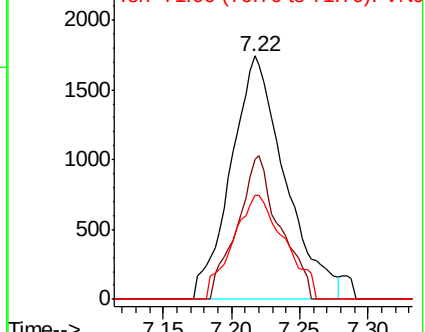
71 40.9 34.9 52.3



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.860 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

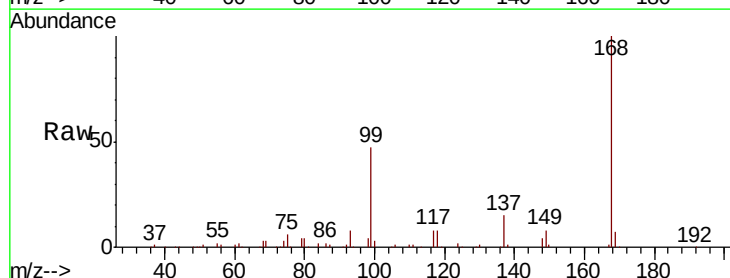
Tgt Ion: 56 Resp: 5872

Ion Ratio Lower Upper

56 100

69 192.2 27.2 40.8#

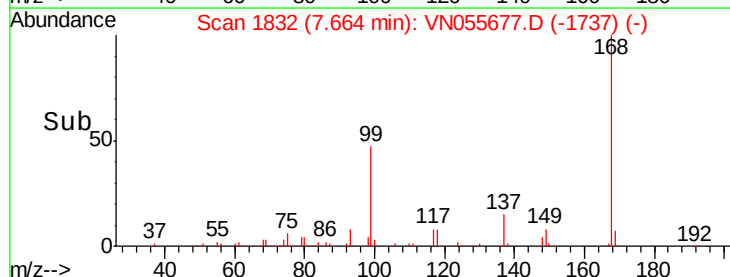
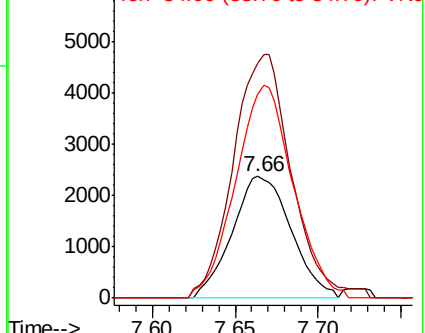
84 167.9 71.3 106.9#

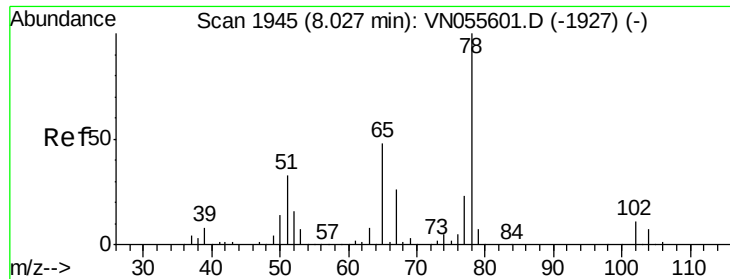


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

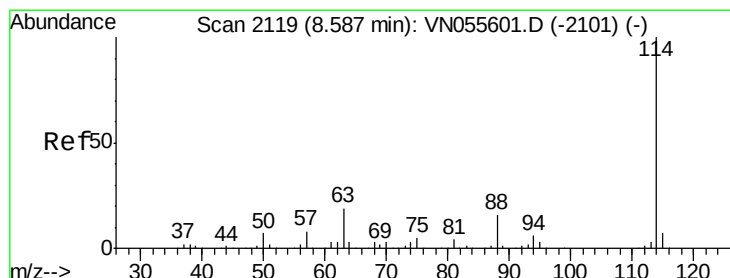
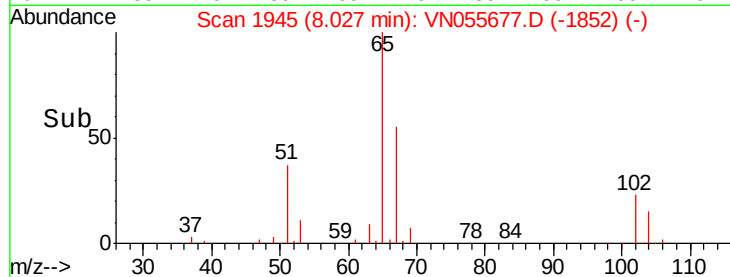
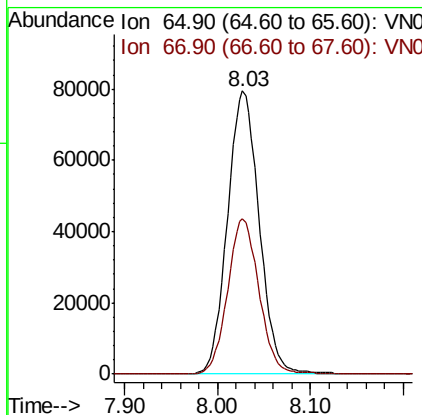
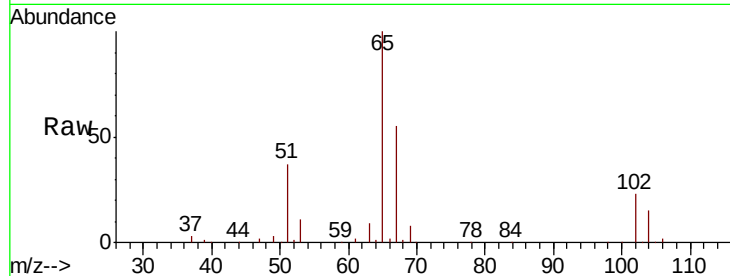
Ion 84.00 (83.70 to 84.70): VN0





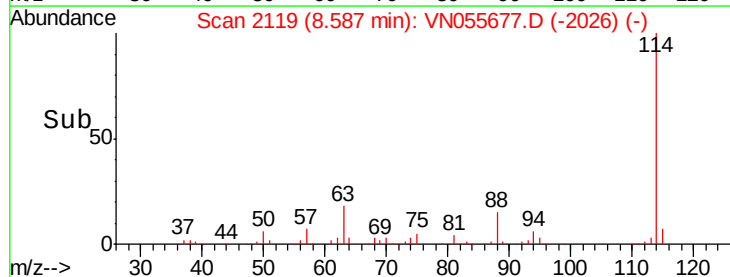
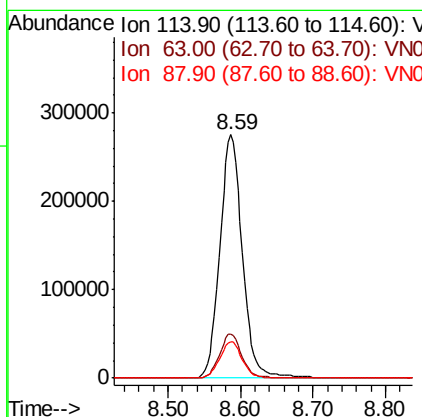
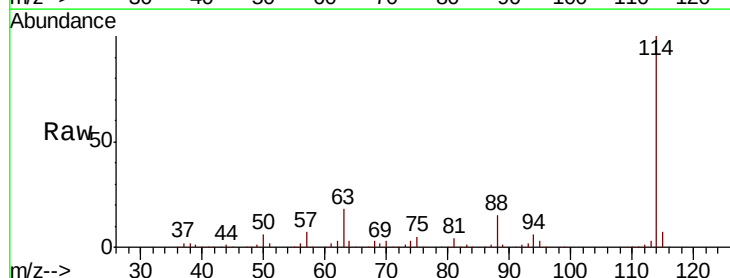
#33
 1,2-Dichloroethane-d4
 Concen: 41.013 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN055677.D
 Acq: 20 May 2019 16:28

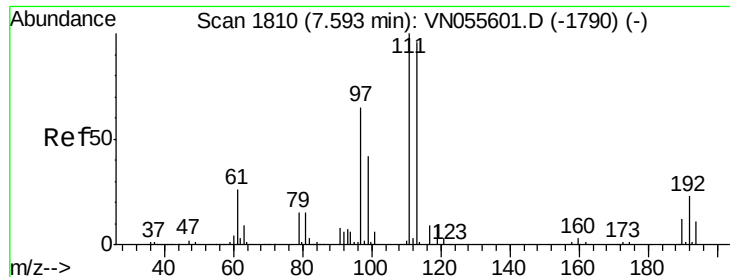
Tot Ion: 65 Resp: 188880
 Ion Ratio Lower Upper
 65 100
 67 54.4 0.0 108.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN055677.D
 Acq: 20 May 2019 16:28

Tgt Ion: 114 Resp: 591408
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 38.2
 88 15.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 48.102 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

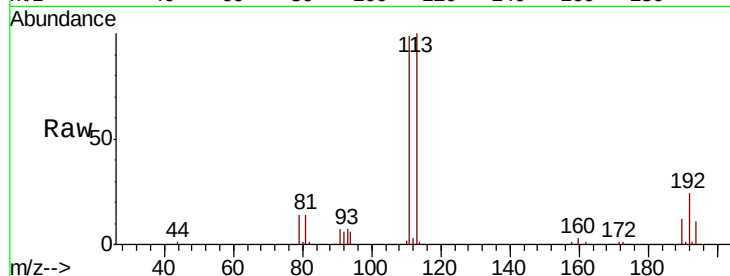
Tot Ion:113 Resp: 180715

Ion Ratio Lower Upper

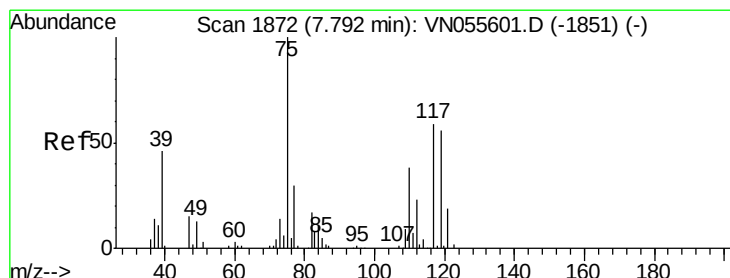
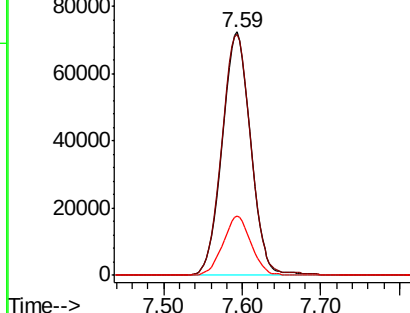
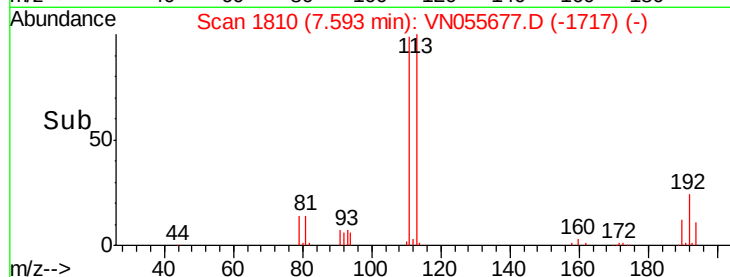
113 100

111 101.2 82.5 123.7

192 24.0 18.7 28.1



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: 4.672 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

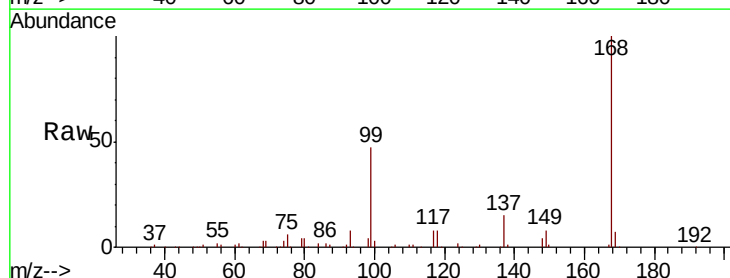
Tgt Ion: 75 Resp: 24632

Ion Ratio Lower Upper

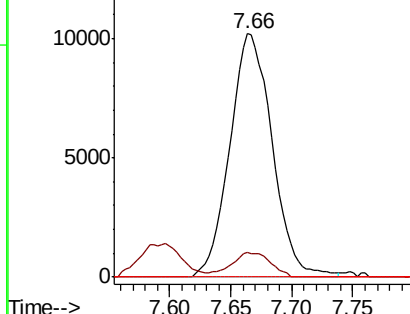
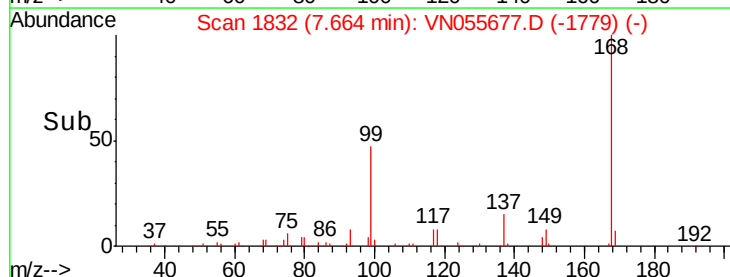
75 100

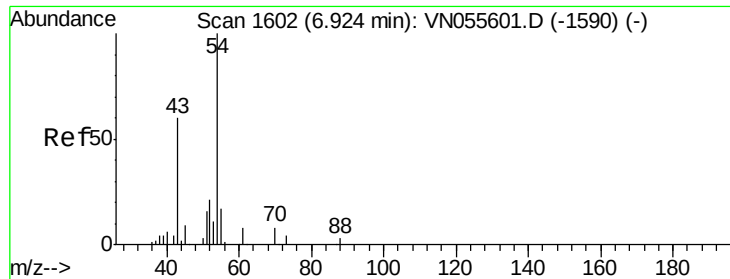
110 9.3 18.6 55.6#

77 0.0 24.9 37.3#



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





#37

Ethyl Acetate

Concen: 1.633 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.08 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

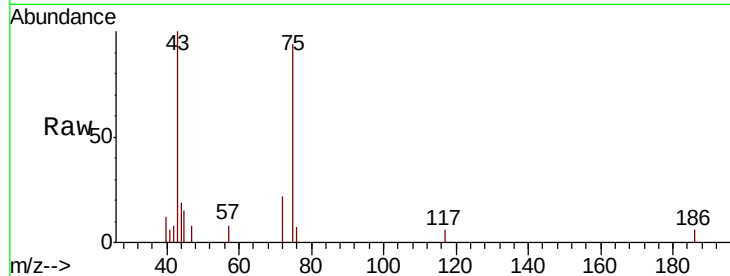
Tot Ion: 43 Resp: 7771

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

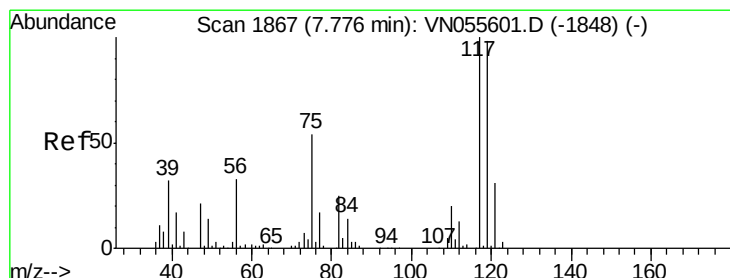
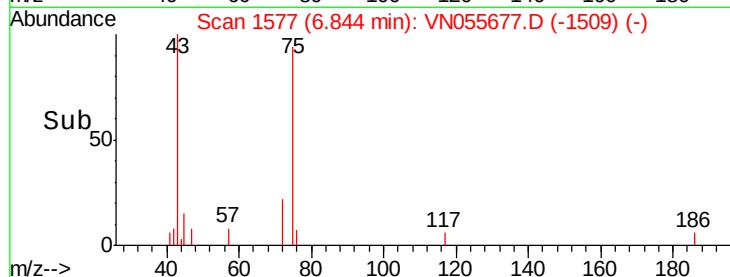
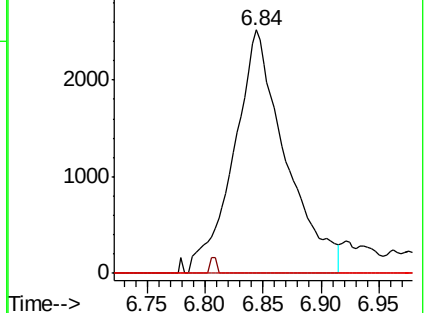
70 0.0 9.2 13.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0



#38

Carbon Tetrachloride

Concen: 6.048 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

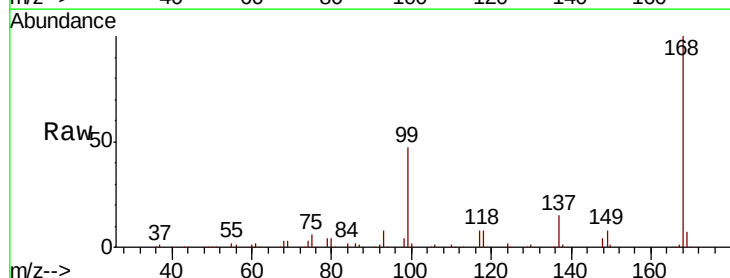
Tgt Ion: 117 Resp: 34076

Ion Ratio Lower Upper

117 100

119 5.2 77.8 116.8#

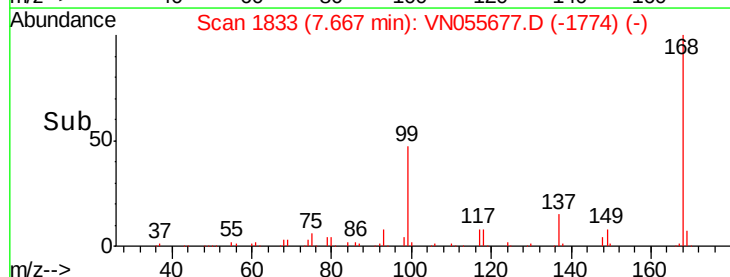
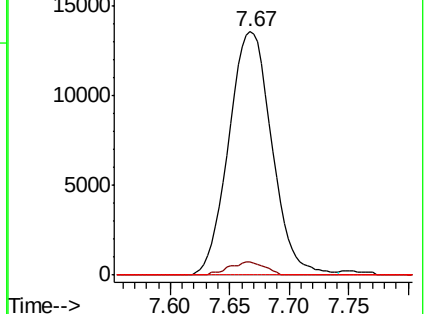
121 0.0 24.6 37.0#

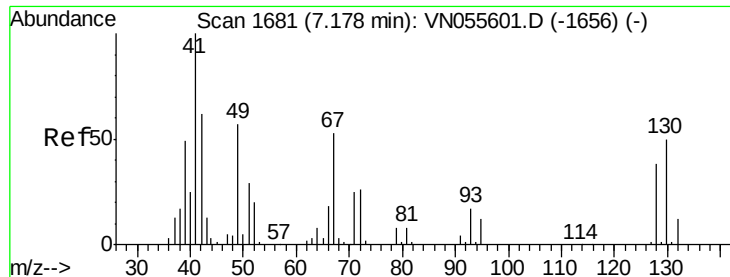


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

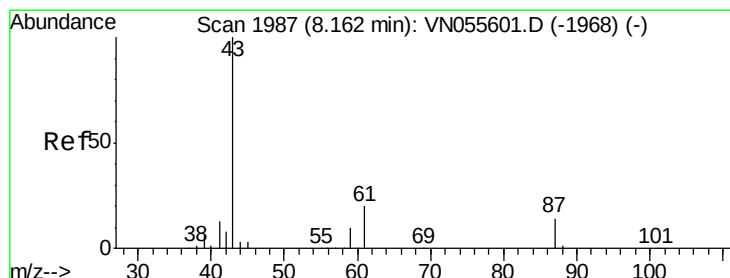
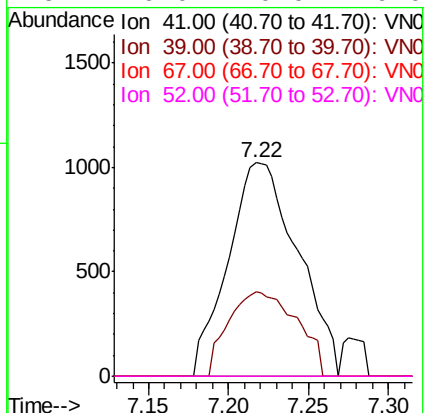
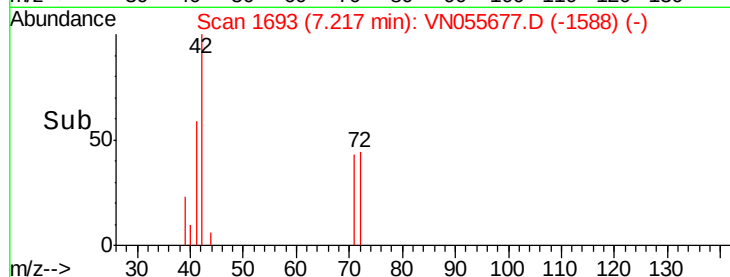
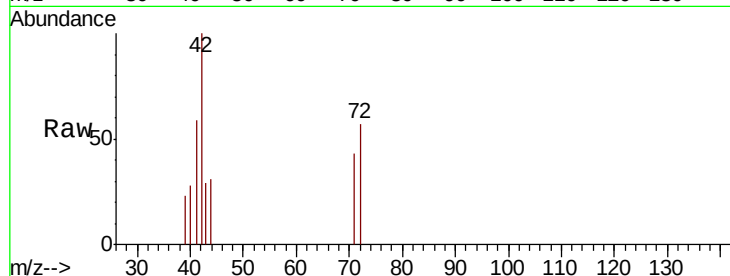
Ion 120.80 (120.50 to 121.50): V





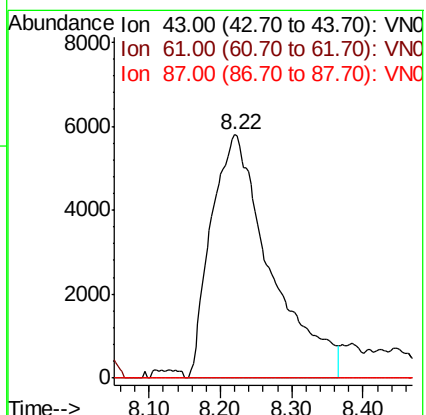
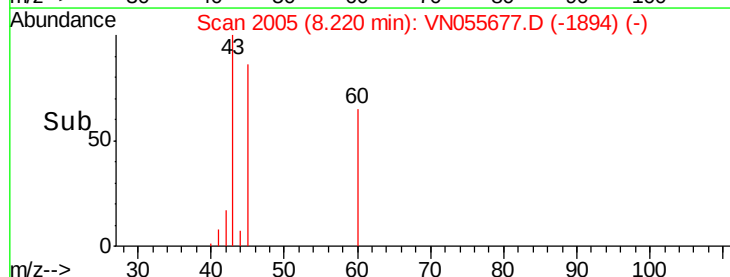
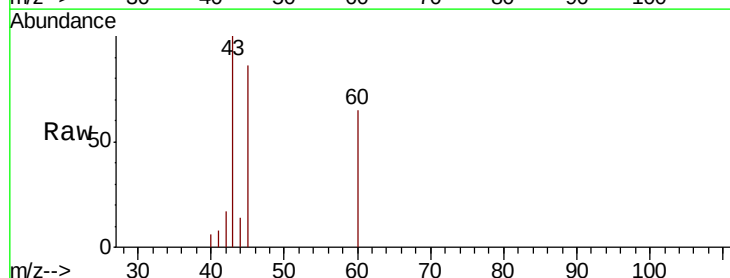
#41
Methacrylonitrile
Concen: 1.508 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.04 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

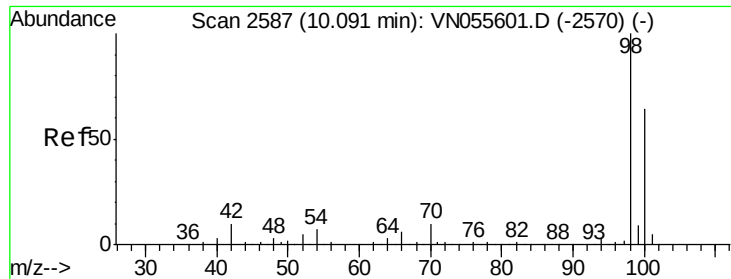
Tot Ion:	41	Resp:	3067
Ion	Ratio	Lower	Upper
41	100		
39	38.6	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 4.054 ug/l
RT: 8.22 min Scan# 2005
Delta R.T. 0.06 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

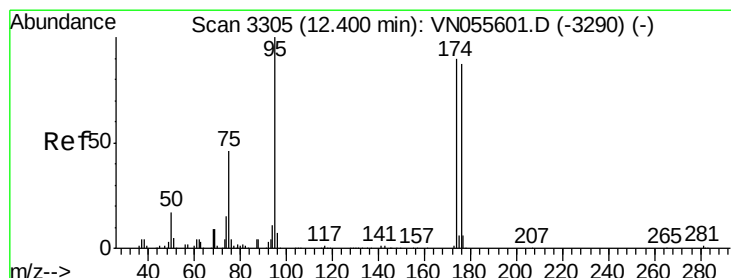
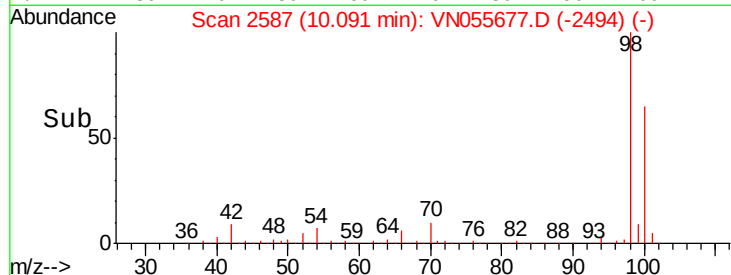
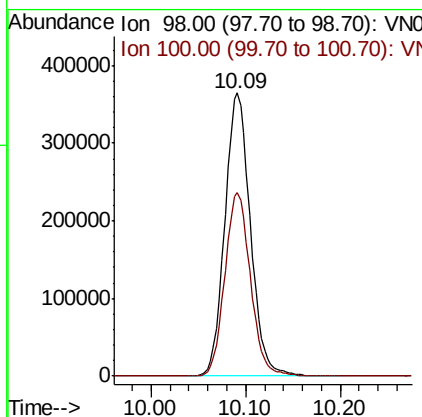
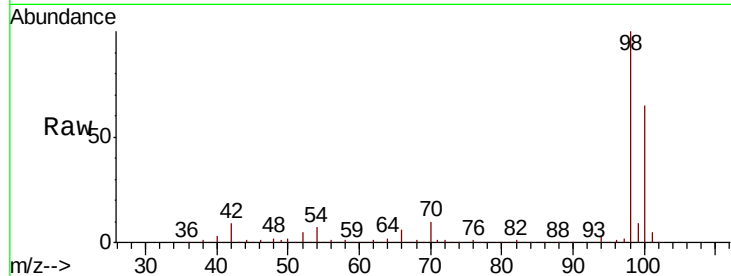
Tgt Ion:	43	Resp:	33552
Ion	Ratio	Lower	Upper
43	100		
61	0.0	22.1	33.1#
87	0.0	11.8	17.6#





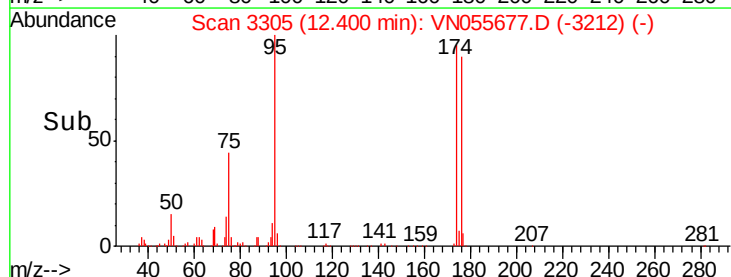
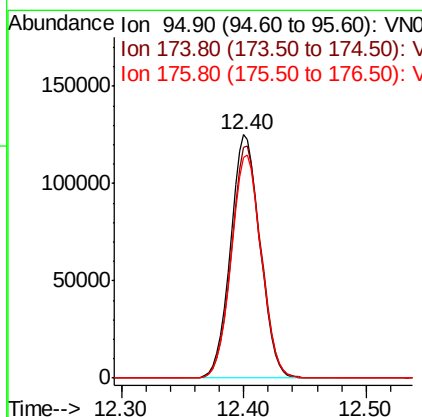
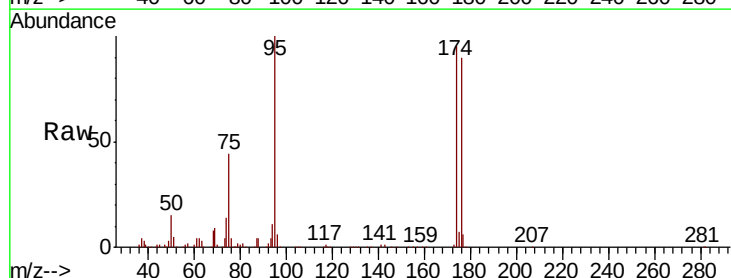
#50
Toluene-d8
Concen: 48.054 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

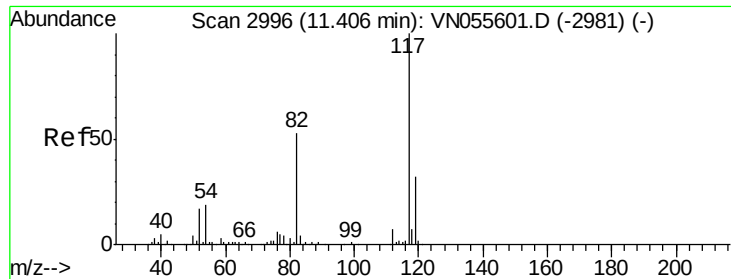
Tot Ion: 98 Resp: 682623
Ion Ratio Lower Upper
98 100
100 65.1 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 42.790 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

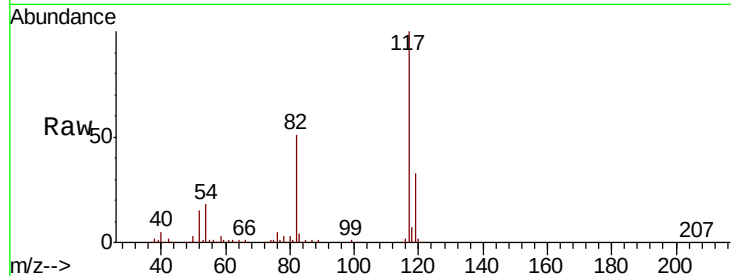
Tgt Ion: 95 Resp: 209896
Ion Ratio Lower Upper
95 100
174 96.0 0.0 180.6
176 93.0 0.0 177.4



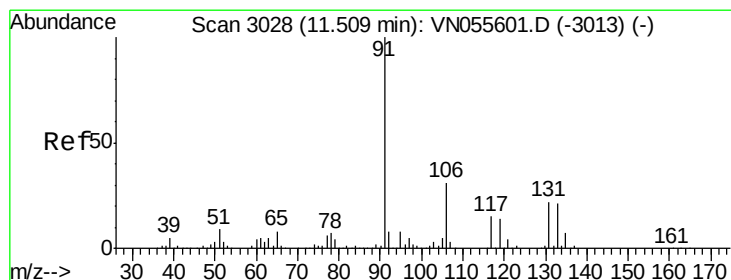
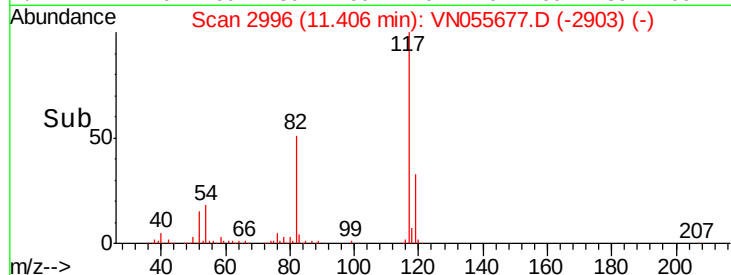
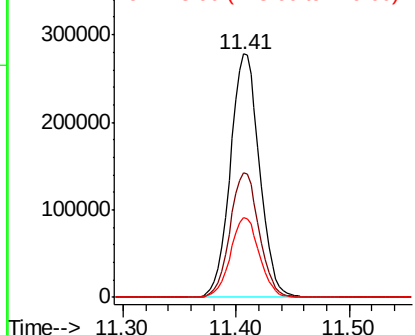


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

Tot Ion:117 Resp: 497063
Ion Ratio Lower Upper
117 100
82 51.0 42.3 63.5
119 32.6 25.4 38.2

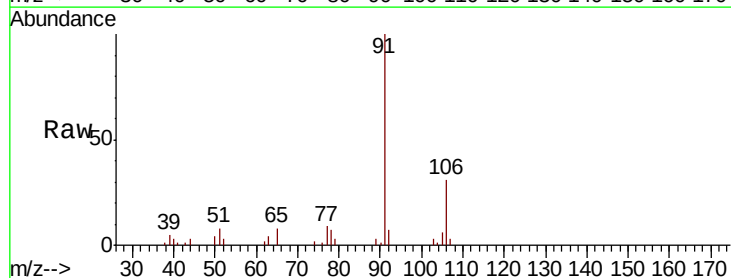


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

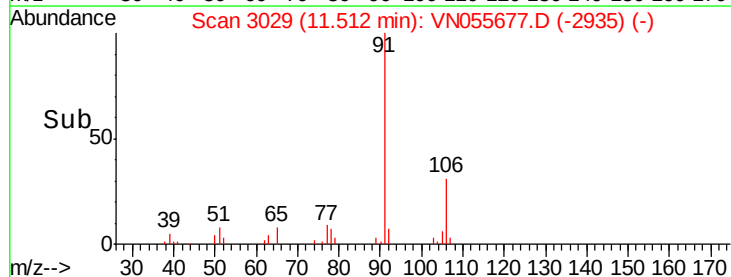
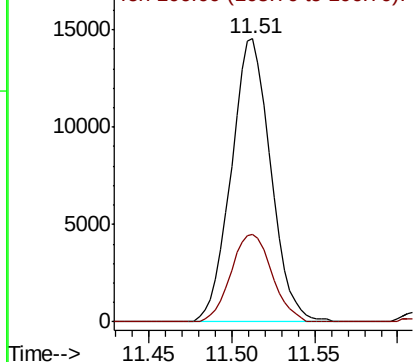


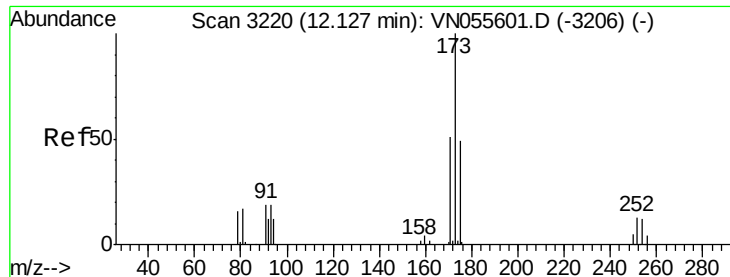
#67
Ethyl Benzene
Concen: 1.344 ug/l
RT: 11.51 min Scan# 3029
Delta R.T. 0.00 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

Tgt Ion: 91 Resp: 24072
Ion Ratio Lower Upper
91 100
106 30.8 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 106.00 (105.70 to 106.70): V





#71

Bromoform

Concen: 0.368 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

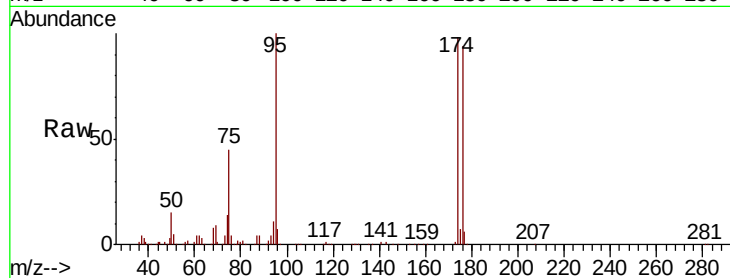
Tot Ion:173 Resp: 1260

Ion Ratio Lower Upper

173 100

175 1022.9 24.3 72.9#

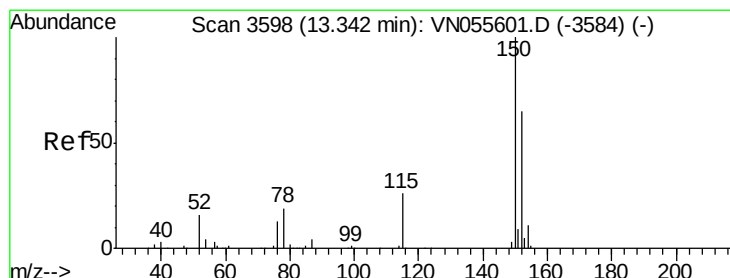
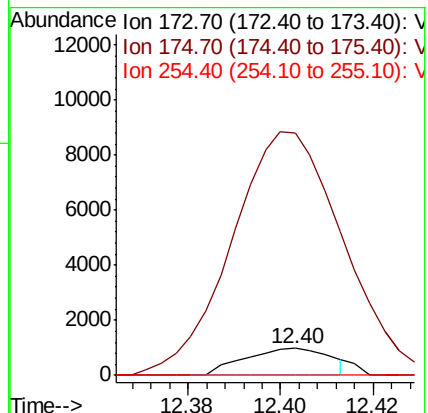
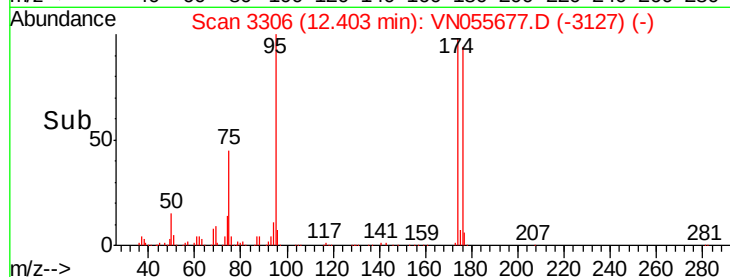
254 0.0 0.1 0.1#



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: VN055677.D

Acq: 20 May 2019 16:28

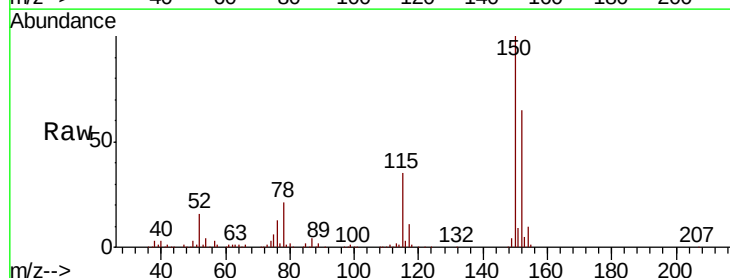
Tgt Ion:152 Resp: 176064

Ion Ratio Lower Upper

152 100

115 54.4 28.1 84.2

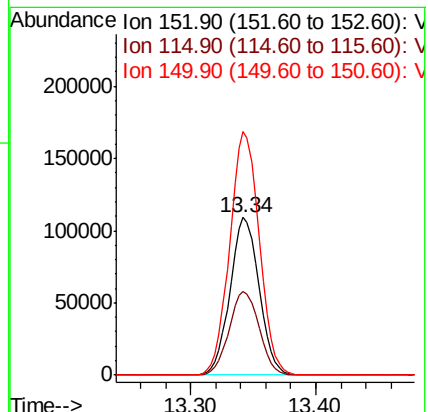
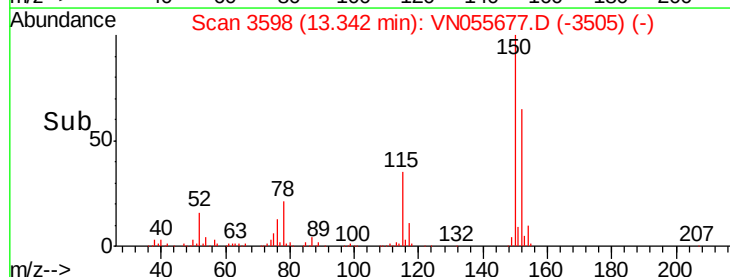
150 156.5 0.0 348.0

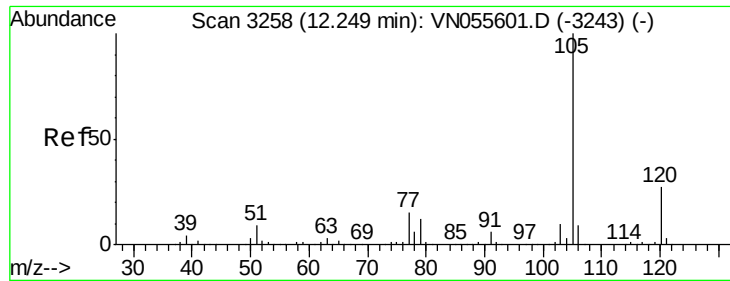


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055677.D

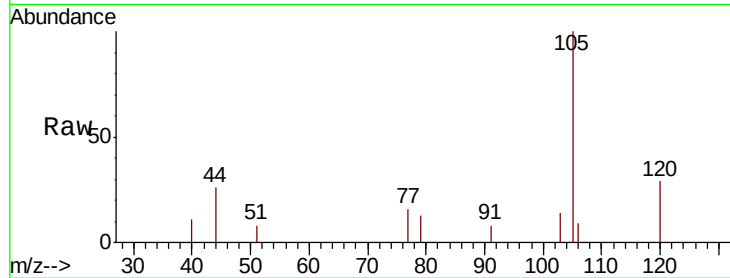
Acq: 20 May 2019 16:28

Tot Ion: 105 Resp: 3171

Ion Ratio Lower Upper

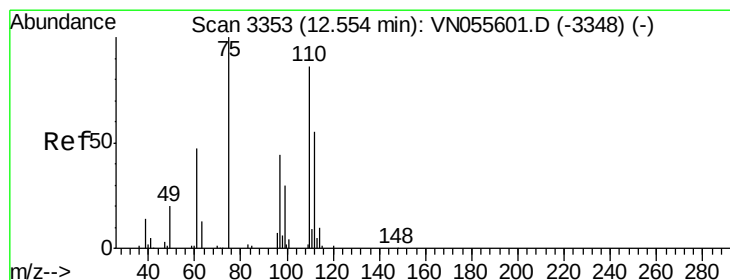
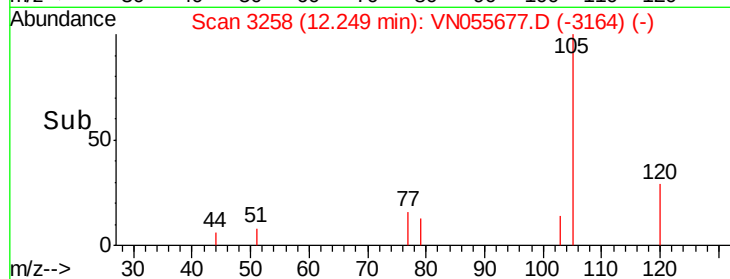
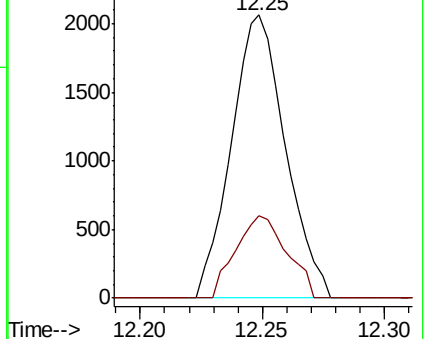
105 100

120 27.5 13.4 40.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#76

1,2,3-Trichloropropane

Concen: 26.228 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055677.D

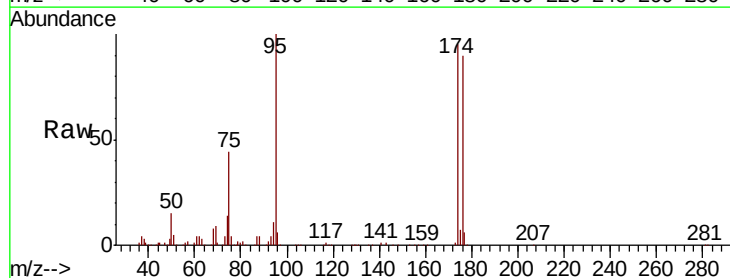
Acq: 20 May 2019 16:28

Tgt Ion: 75 Resp: 94226

Ion Ratio Lower Upper

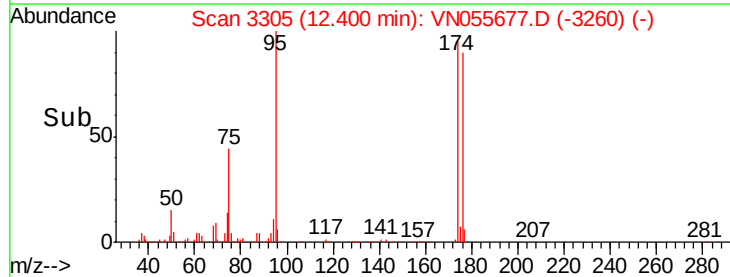
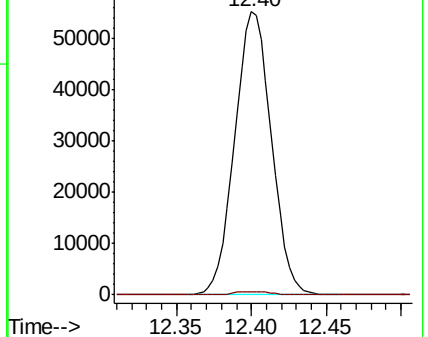
75 100

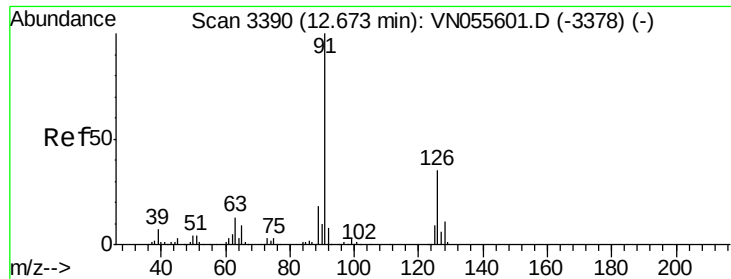
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

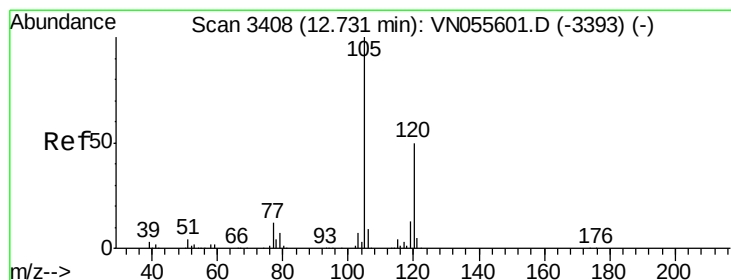
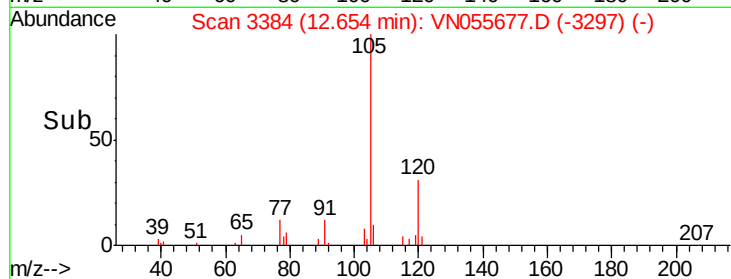
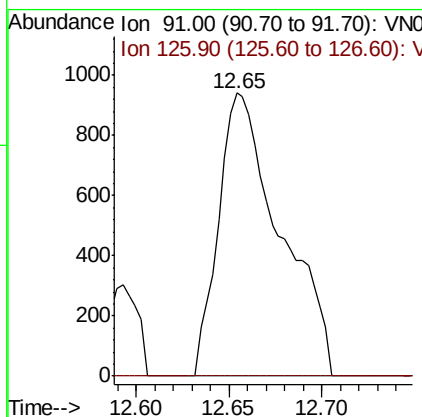
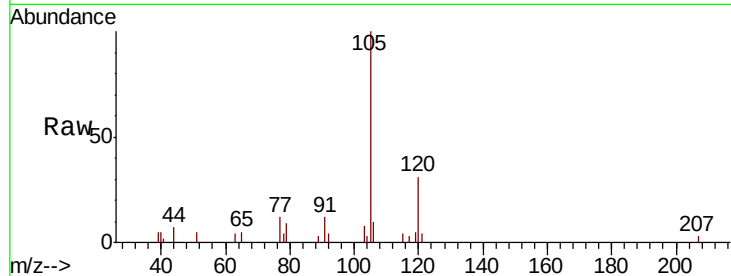
Ion 77.00 (76.70 to 77.70): V





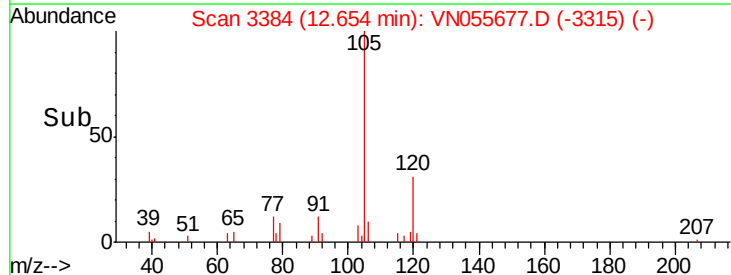
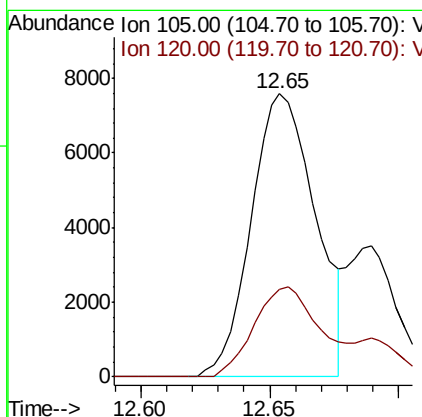
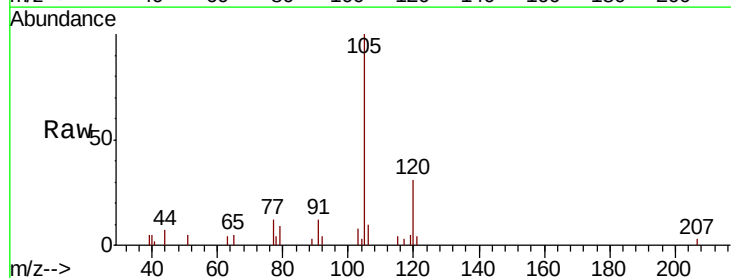
#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.65 min Scan# 3384
 Delta R.T. -0.02 min
 Lab File: VN055677.D
 Acq: 20 May 2019 16:28

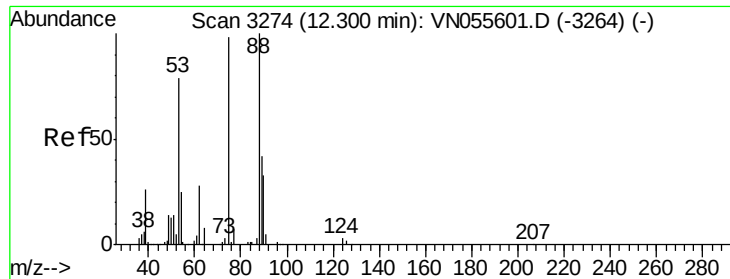
Tot Ion: 91 Resp: 2177
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.8 53.4#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.65 min Scan# 3384
 Delta R.T. -0.08 min
 Lab File: VN055677.D
 Acq: 20 May 2019 16:28

Tgt Ion: 105 Resp: 13198
 Ion Ratio Lower Upper
 105 100
 120 32.6 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 67.420 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

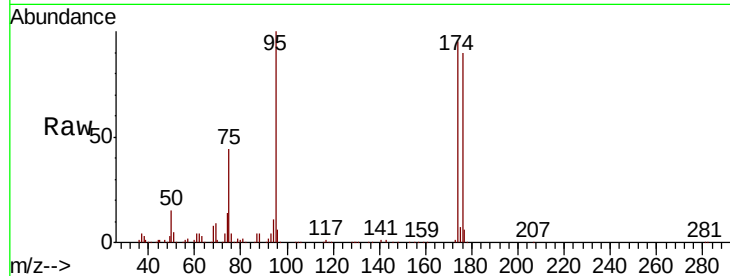
Tot Ion: 75 Resp: 94226

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

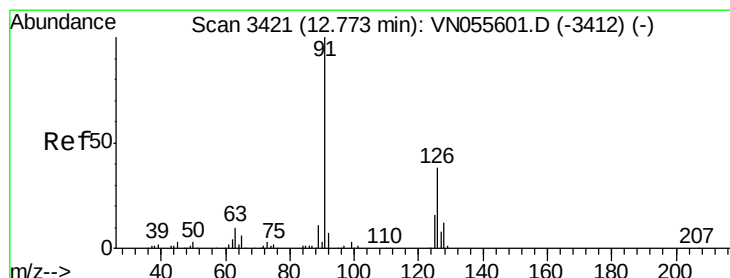
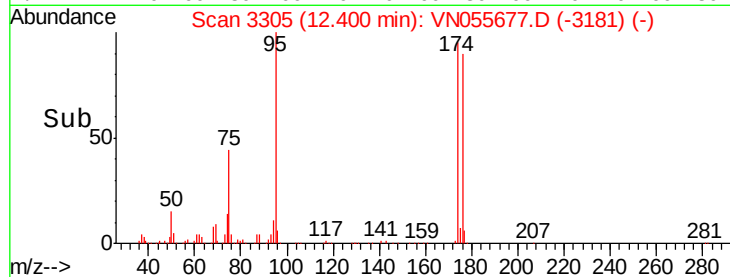
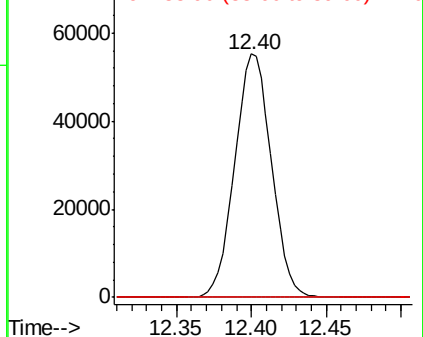
89 0.0 36.4 54.6#



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



#82

4-Chlorotoluene

Concen: 0.236 ug/l

RT: 12.65 min Scan# 3384

Delta R.T. -0.12 min

Lab File: VN055677.D

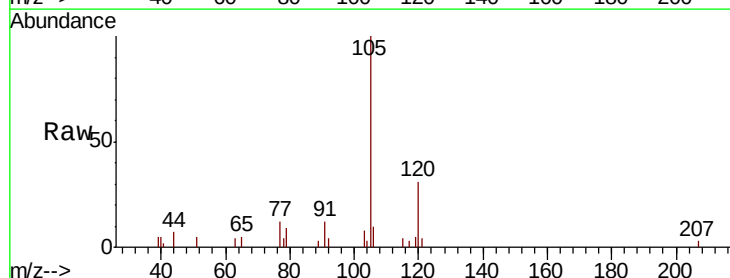
Acq: 20 May 2019 16:28

Tgt Ion: 91 Resp: 2177

Ion Ratio Lower Upper

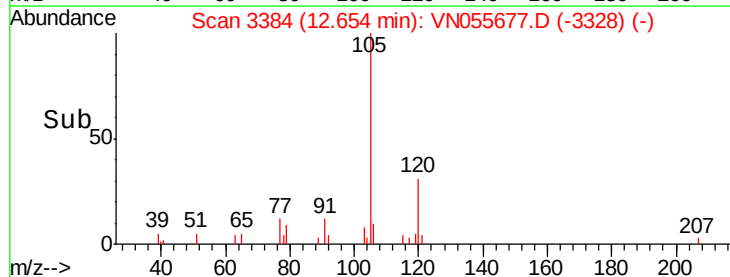
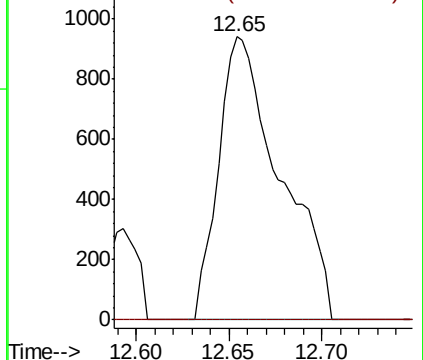
91 100

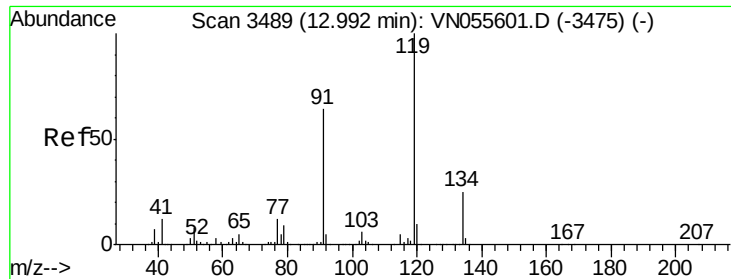
126 0.0 17.5 52.6#



Abundance Ion 91.00 (90.70 to 91.70): VN0

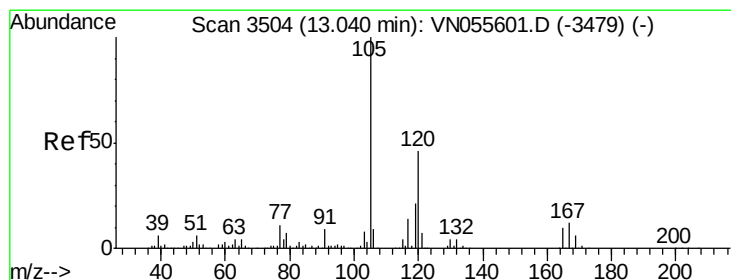
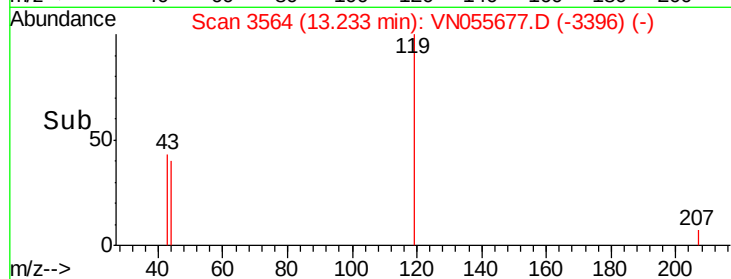
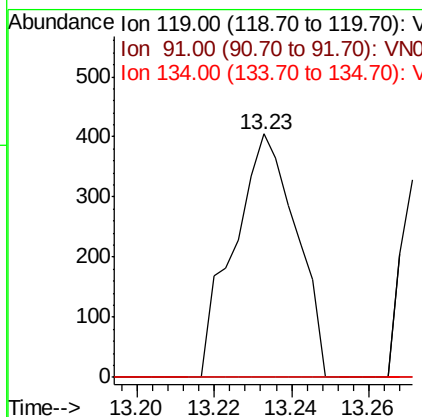
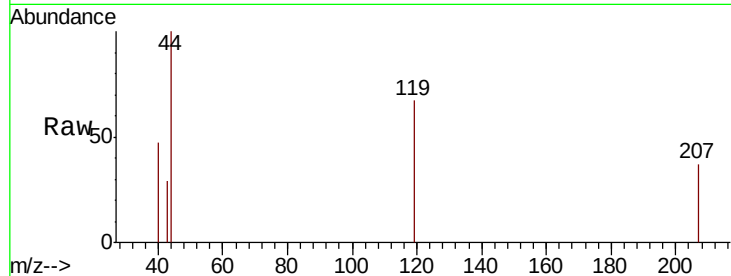
Ion 125.90 (125.60 to 126.60): V





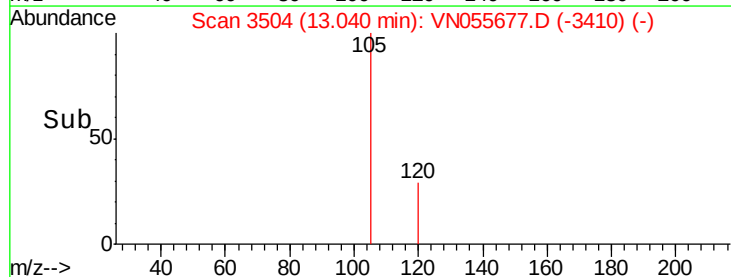
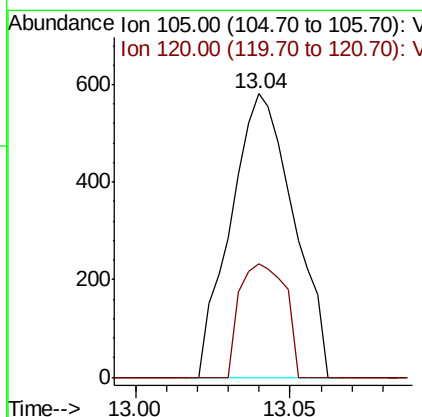
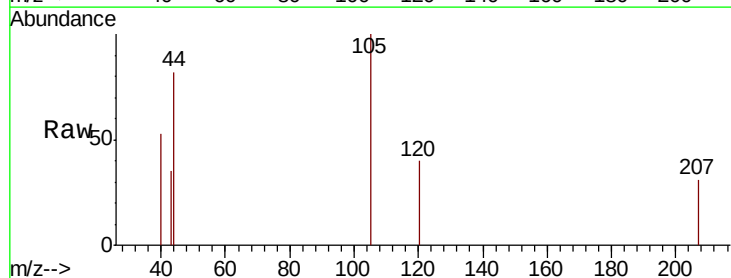
#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.23 min Scan# 3564
 Delta R.T. 0.24 min
 Lab File: VN055677.D
 Acq: 20 May 2019 16:28

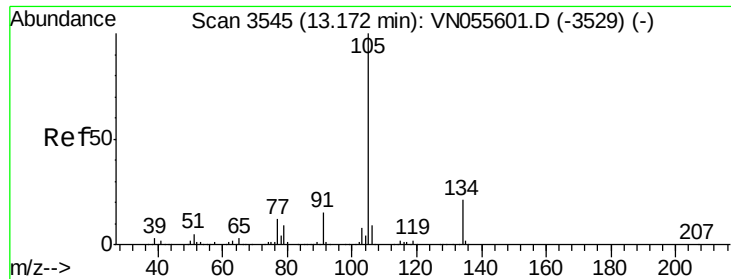
Tot Ion	Ratio	Lower	Upper
119	100		
91	0.0	31.3	93.8#
134	0.0	13.2	39.6#



#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055677.D
 Acq: 20 May 2019 16:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.9	23.1	69.2





#85

sec-Butylbenzene

Concen: Below Cal

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN055677.D

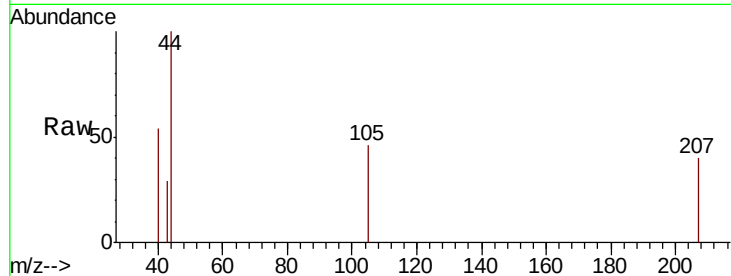
Acq: 20 May 2019 16:28

Tot Ion:105 Resp: 302

Ion Ratio Lower Upper

105 100

134 0.0 10.3 30.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

250

200

150

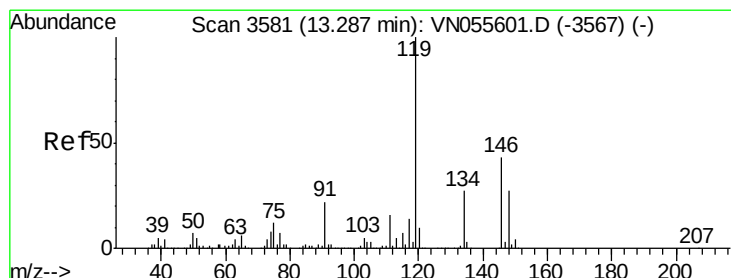
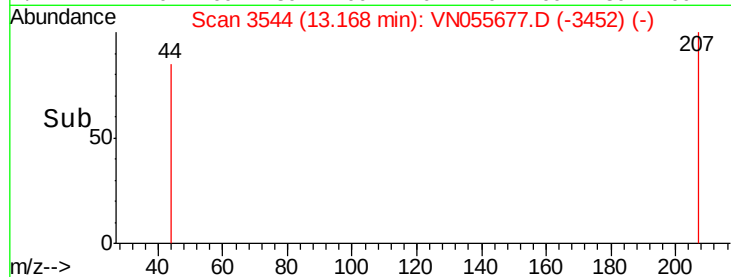
100

50

0

13.14 13.16 13.18

Time-->



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055677.D

Acq: 20 May 2019 16:28

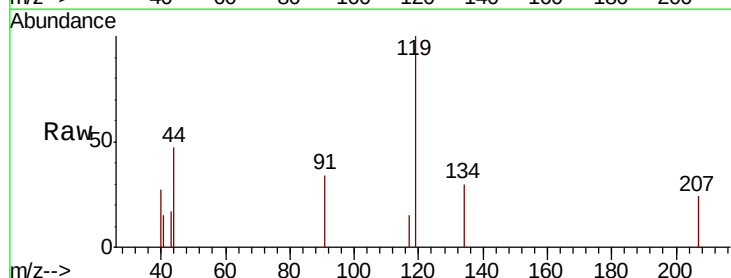
Tgt Ion:119 Resp: 1798

Ion Ratio Lower Upper

119 100

134 27.0 13.4 40.2

91 25.9 11.0 33.0



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.29

1500

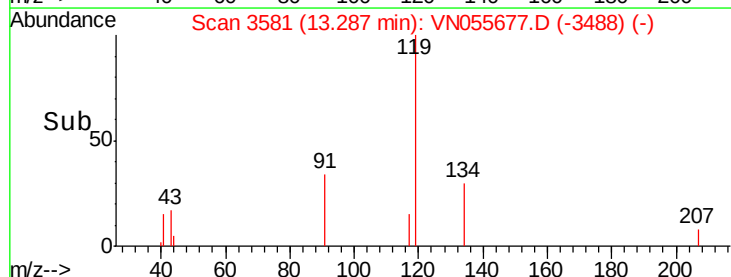
1000

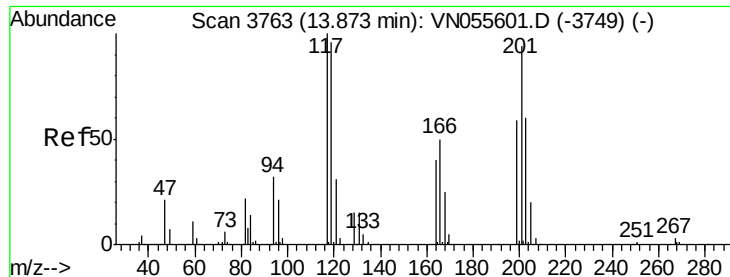
500

0

13.25 13.30

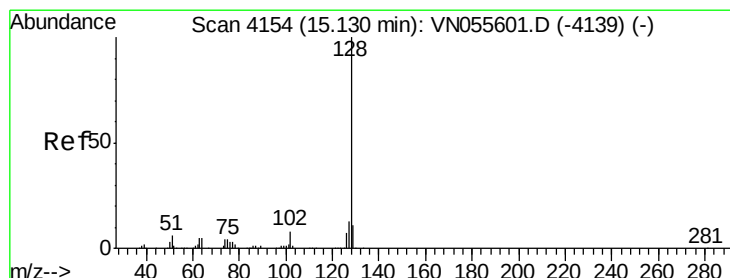
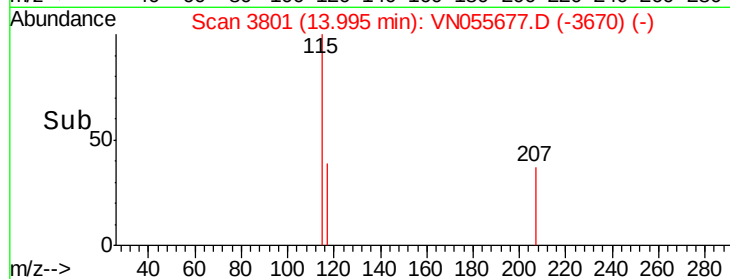
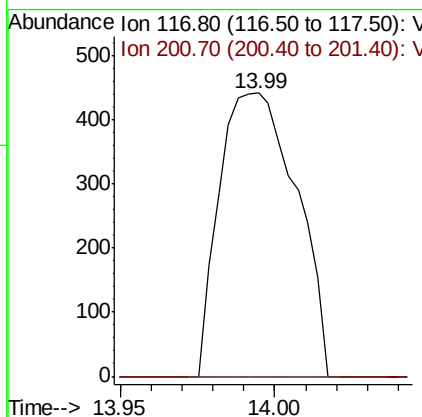
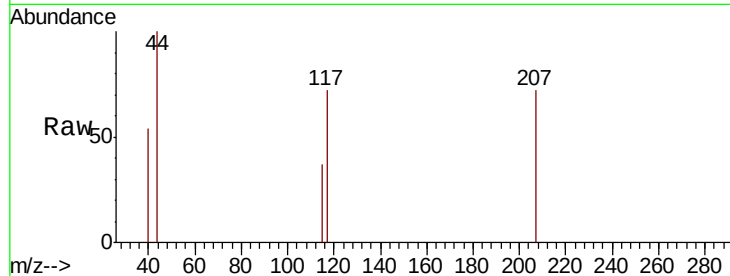
Time-->





#90
Hexachloroethane
Concen: Below Cal
RT: 13.99 min Scan# 3801
Delta R.T. 0.12 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

Tot Ion:117 Resp: 762
Ion Ratio Lower Upper
117 100
201 0.0 47.1 141.3#



#95
Naphthalene
Concen: 1.994 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.01 min
Lab File: VN055677.D
Acq: 20 May 2019 16:28

Tgt Ion:128 Resp: 2181
Ion Ratio Lower Upper
128 100
127 1.4 10.2 15.4#
129 0.0 8.6 12.8#

