

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052019\
 Data File : VN055690.D
 Acq On : 20 May 2019 23:56
 Operator : JC/SP
 Sample : K2953-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 36 Sample Multiplier: 1

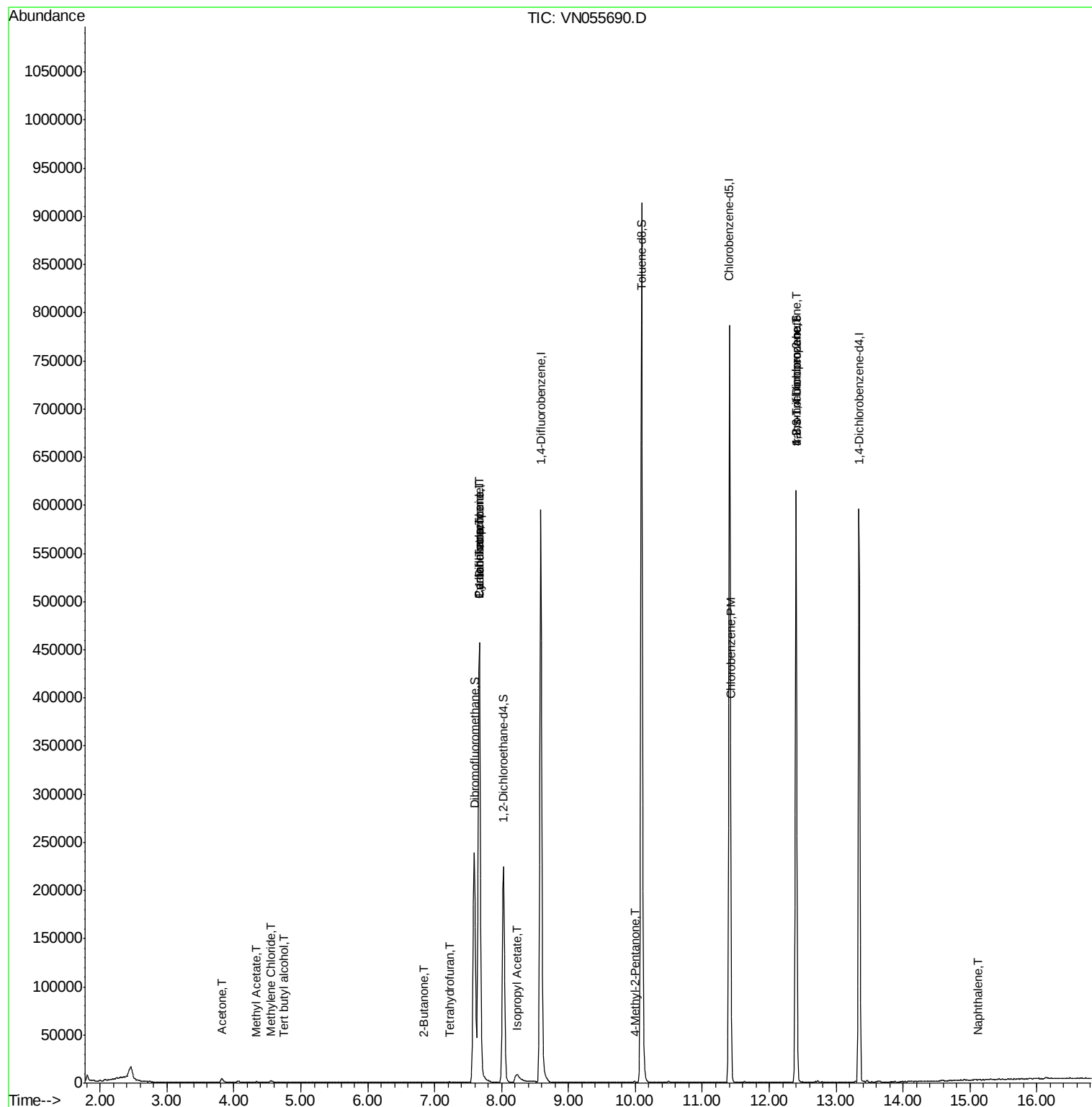
Quant Time: May 21 04:40:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

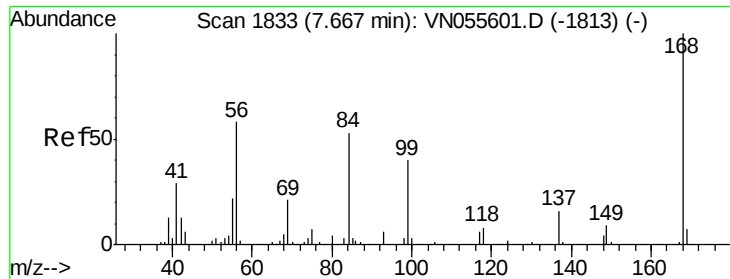
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	451015	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	602274	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	514872	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	177765	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	190575	38.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.10%	
35) Dibromofluoromethane	7.59	113	181023	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	
50) Toluene-d8	10.09	98	690652	47.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.48%	
62) 4-Bromofluorobenzene	12.40	95	212219	42.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.96%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.75	59	276	0.299	ug/l #	74
16) Acetone	3.82	43	7328	3.632	ug/l	97
18) Methyl Acetate	4.34	43	1718	0.397	ug/l #	77
20) Methylene Chloride	4.55	84	1475	0.320	ug/l #	80
25) 2-Butanone	6.84	43	672	0.238	ug/l #	47
29) Tetrahydrofuran	7.22	42	869	0.465	ug/l #	31
31) Cyclohexane	7.66	56	6011	0.820	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	24139	4.495	ug/l #	48
38) Carbon Tetrachloride	7.66	117	34365	5.989	ug/l #	15
43) Isopropyl Acetate	8.22	43	6172	0.732	ug/l #	53
51) 4-Methyl-2-Pentanone	9.99	43	1624	0.328	ug/l #	62
65) Chlorobenzene	11.43	112	3069	0.295	ug/l	95
73) Isopropylbenzene	12.24	105	161	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	96183	26.516	ug/l #	100
79) 2-Chlorotoluene	12.68	91	30	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	178	Below Cal	#	28
81) trans-1,4-Dichloro-2-buten	12.40	75	96183	68.162	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.04	105	364	Below Cal	#	30
85) sec-Butylbenzene	13.18	105	282	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	370	Below Cal	#	51
94) Hexachlorobutadiene	15.01	225	92	Below Cal	#	18
95) Naphthalene	15.13	128	646	1.832	ug/l #	69

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

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Quant Title : SW846 8260
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: VN055690.D

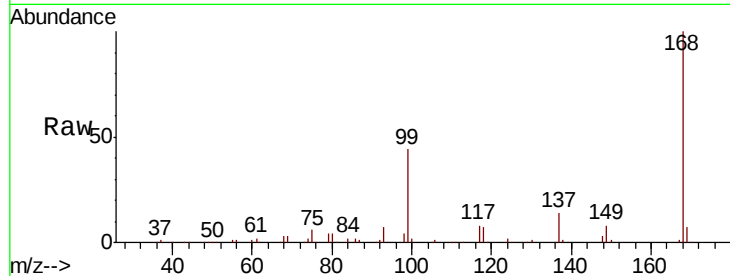
Acq: 20 May 2019 23:56

Tot Ion:168 Resp: 451015

Ion Ratio Lower Upper

168 100

99 44.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055690.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055690.D (-1740) (-)

7.67

200000

150000

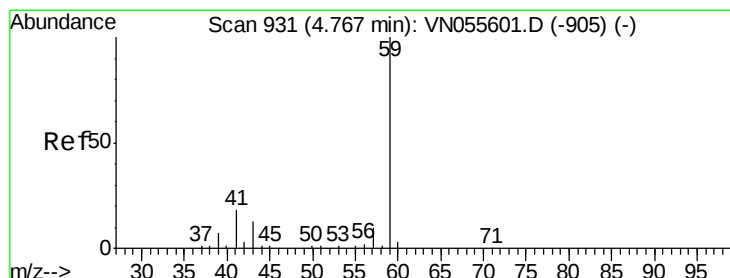
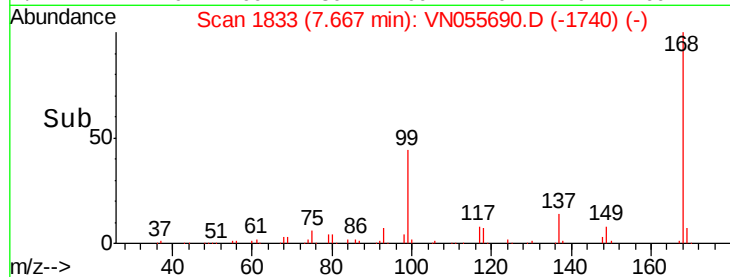
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#11

Tert butyl alcohol

Concen: 0.299 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.01 min

Lab File: VN055690.D

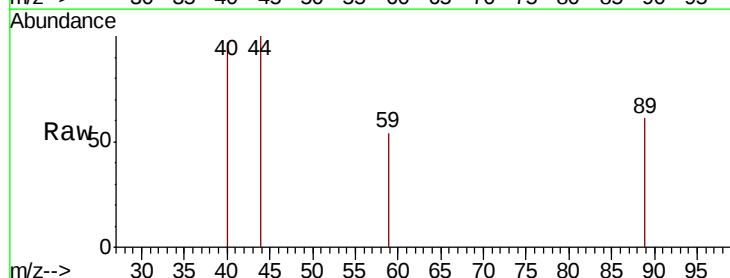
Acq: 20 May 2019 23:56

Tgt Ion: 59 Resp: 276

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055690.D (-838) (-)

Ion 57.00 (56.70 to 57.70): VN055690.D (-838) (-)

4.75

200

150

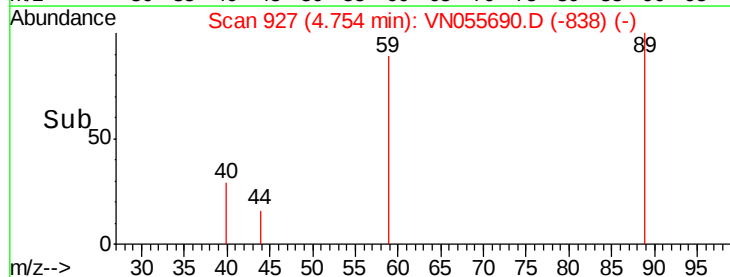
100

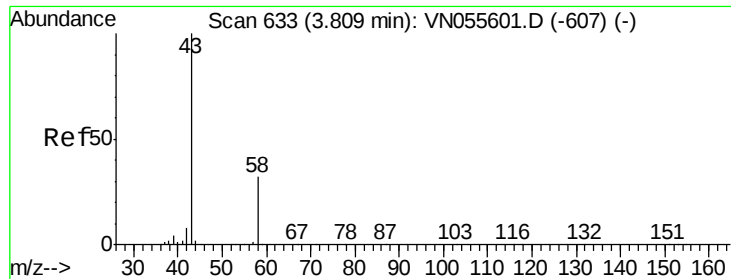
50

0

4.72 4.74 4.76

Time-->





#16

Acetone

Concen: 3.632 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN055690.D

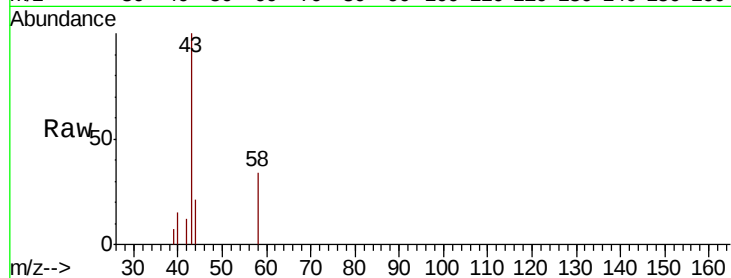
Acq: 20 May 2019 23:56

Tot Ion: 43 Resp: 7328

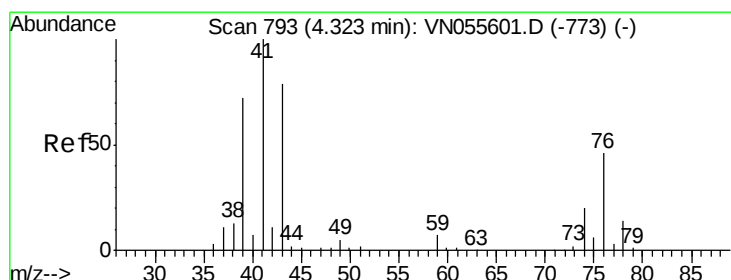
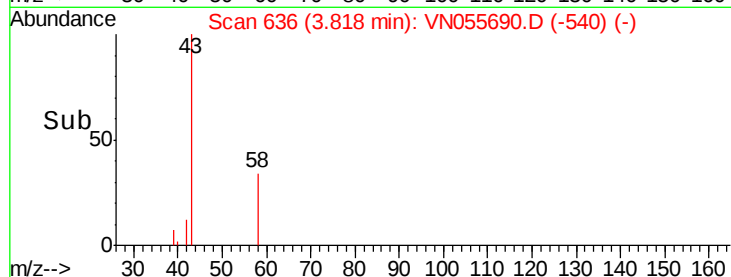
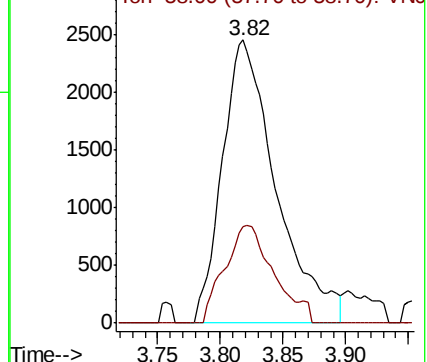
Ion Ratio Lower Upper

43 100

58 34.1 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN055690.D (-540) (-)



#18

Methyl Acetate

Concen: 0.397 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055690.D

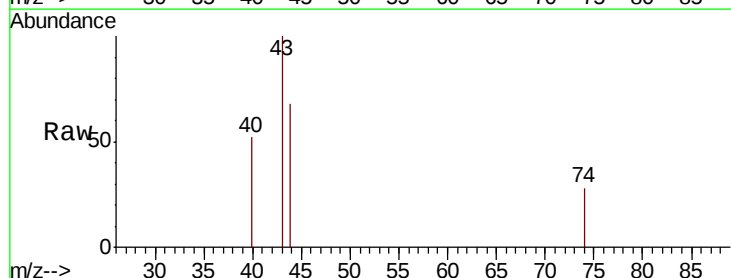
Acq: 20 May 2019 23:56

Tgt Ion: 43 Resp: 1718

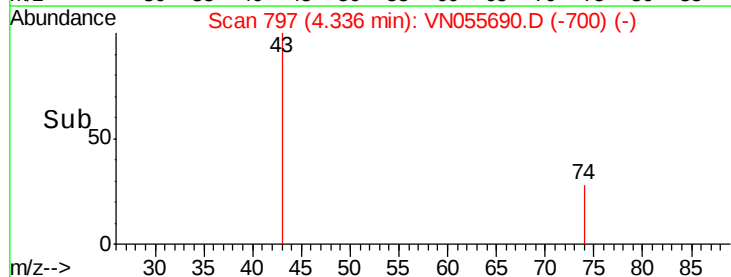
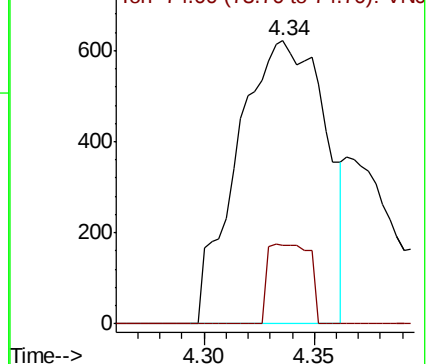
Ion Ratio Lower Upper

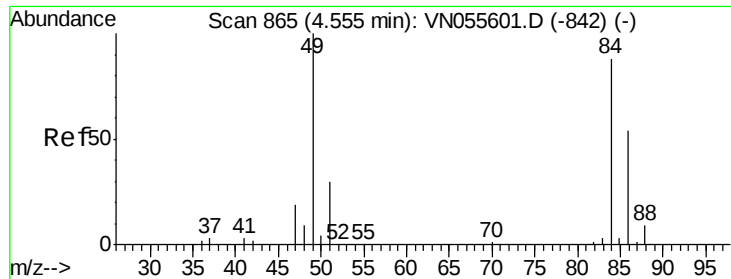
43 100

74 13.3 19.9 29.9#



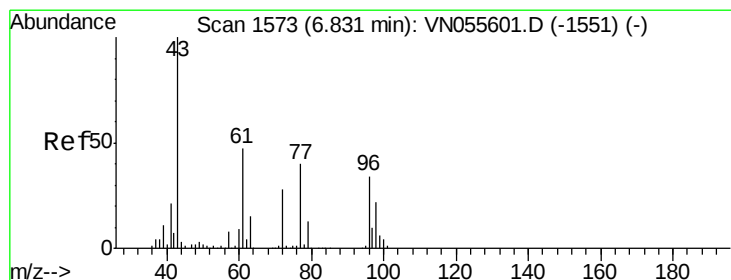
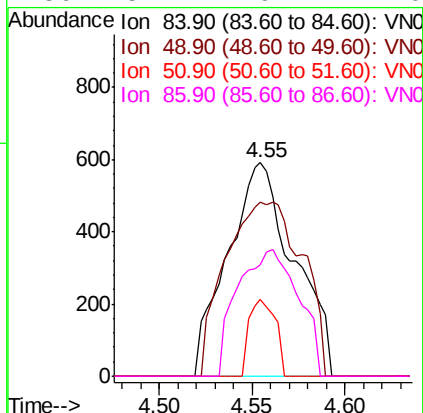
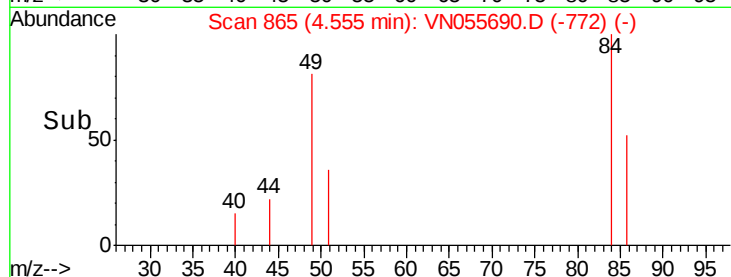
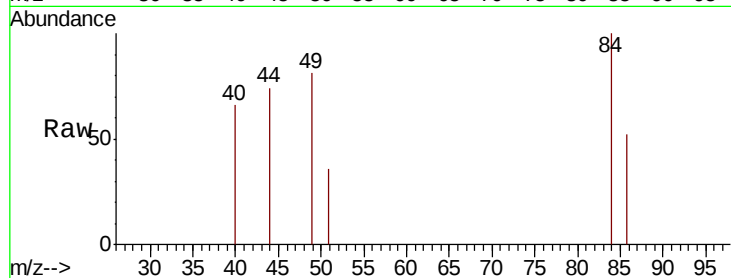
Abundance Ion 43.00 (42.70 to 43.70): VN055690.D (-700) (-)





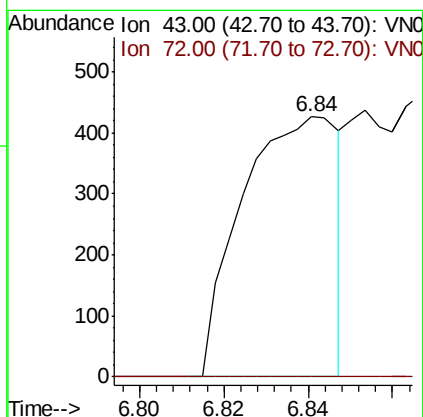
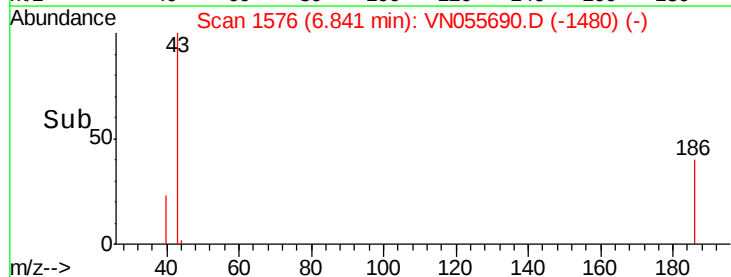
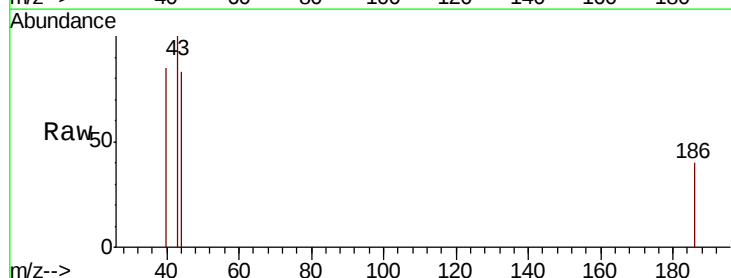
#20
Methvlene Chloride
Concen: 0.320 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN055690.D
Acq: 20 May 2019 23:56

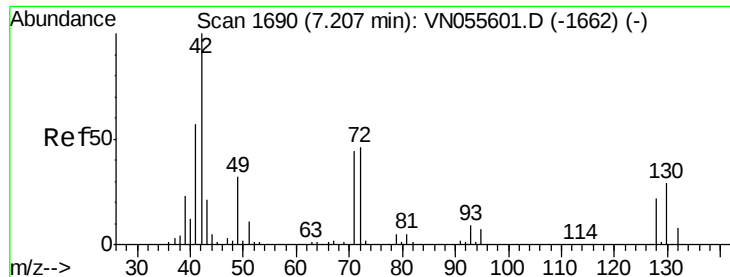
Tot Ion:	84	Resp:	1475
Ion	Ratio	Lower	Upper
84	100		
49	81.3	91.0	136.4#
51	35.8	27.5	41.3
86	52.4	49.4	74.0



#25
2-Butanone
Concen: 0.238 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN055690.D
Acq: 20 May 2019 23:56

Tgt Ion:	43	Resp:	672
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.3	33.5#





#29

Tetrahydrofuran

Concen: 0.465 ug/l

RT: 7.22 min Scan# 1694

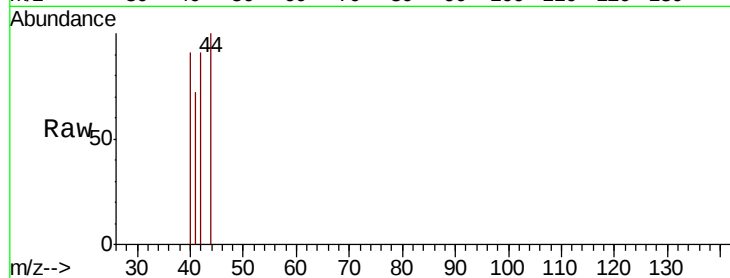
Delta R.T. 0.01 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

Tot Ion: 42 Resp: 869

Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.5	54.7#
71	0.0	34.9	52.3#

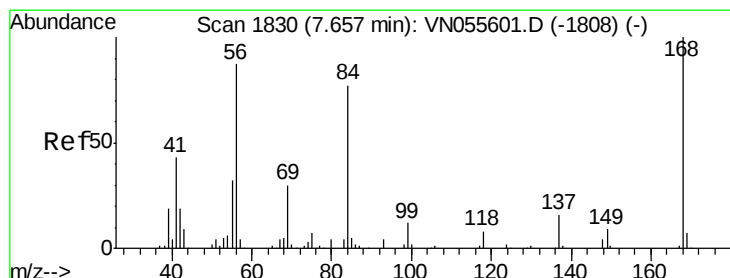
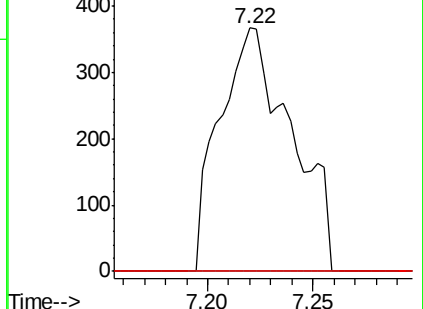
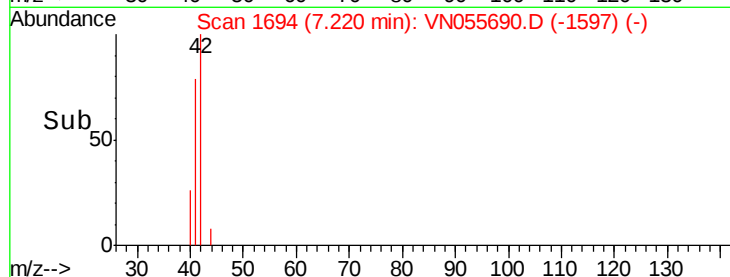


Abundance Ion 42.00 (41.70 to 42.70): VN055601.D (-1662) (-)

Ion 72.00 (71.70 to 72.70): VN055601.D (-1662) (-)

Ion 71.00 (70.70 to 71.70): VN055601.D (-1662) (-)

Time-->



#31

Cyclohexane

Concen: 0.820 ug/l

RT: 7.66 min Scan# 1832

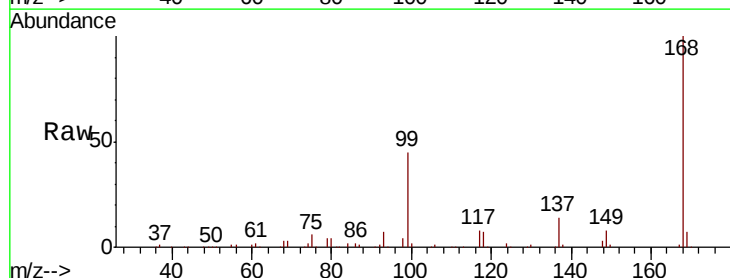
Delta R.T. 0.01 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

Tgt Ion: 56 Resp: 6011

Ion	Ratio	Lower	Upper
56	100		
69	190.0	27.2	40.8#
84	169.9	71.3	106.9#

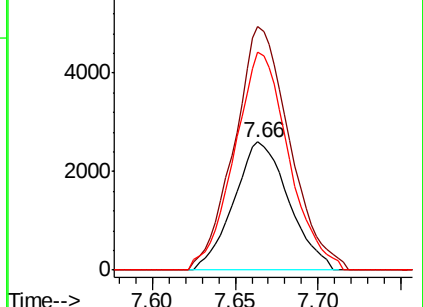
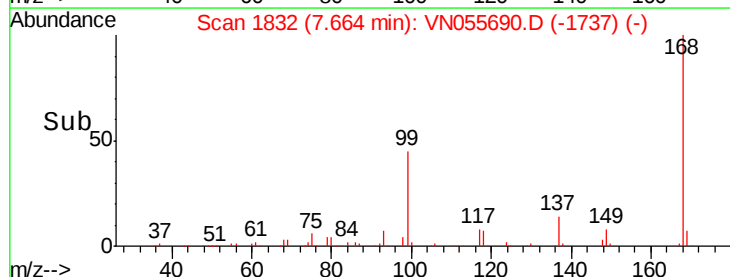


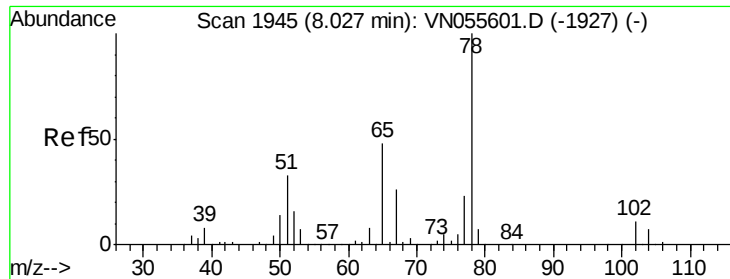
Abundance Ion 56.00 (55.70 to 56.70): VN055601.D (-1808) (-)

Ion 69.00 (68.70 to 69.70): VN055601.D (-1808) (-)

Ion 84.00 (83.70 to 84.70): VN055601.D (-1808) (-)

Time-->





#33

1,2-Dichloroethane-d4

Concen: 38.546 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN055690.D

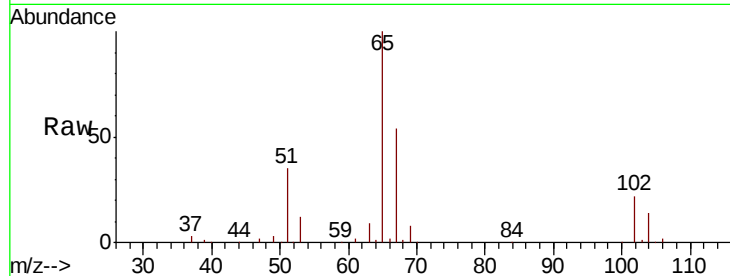
Acq: 20 May 2019 23:56

Tot Ion: 65 Resp: 190575

Ion Ratio Lower Upper

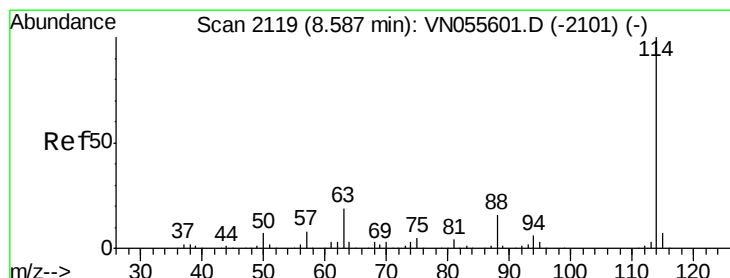
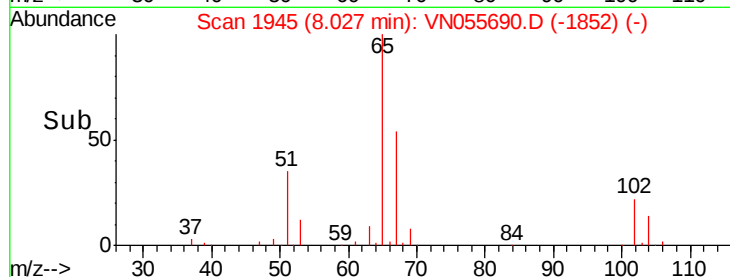
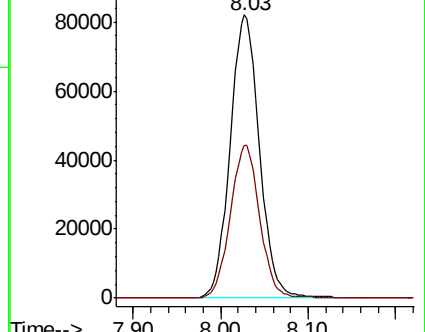
65 100

67 54.1 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VN055690.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN055690.D (-1852) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

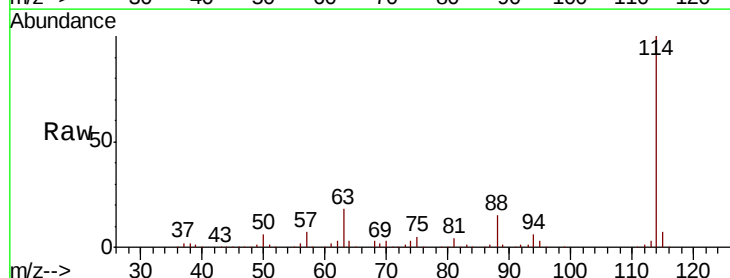
Tgt Ion: 114 Resp: 602274

Ion Ratio Lower Upper

114 100

63 17.8 0.0 38.2

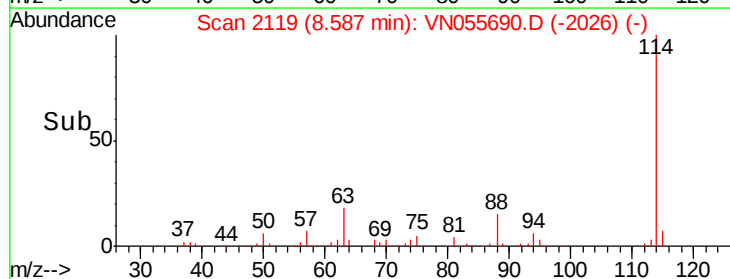
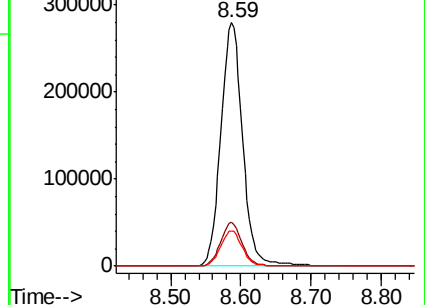
88 14.5 0.0 31.0

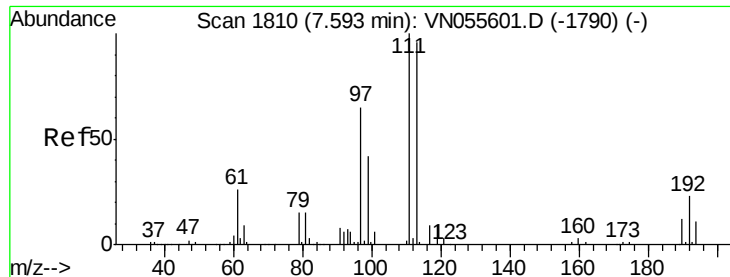


Abundance Ion 113.90 (113.60 to 114.60): VN055690.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN055690.D (-2026) (-)

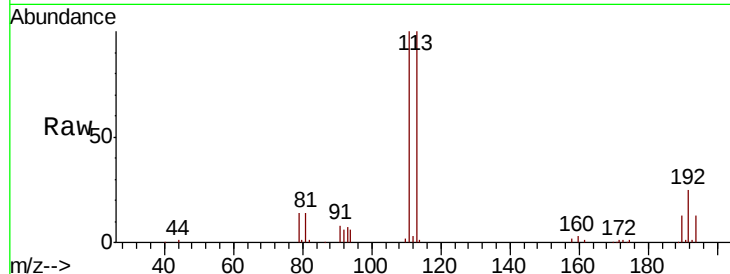
Ion 87.90 (87.60 to 88.60): VN055690.D (-2026) (-)





#35
 Dibromofluoromethane
 Concen: 47.315 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN055690.D
 Acq: 20 May 2019 23:56

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	82.5	123.7
192	25.6	18.7	28.1

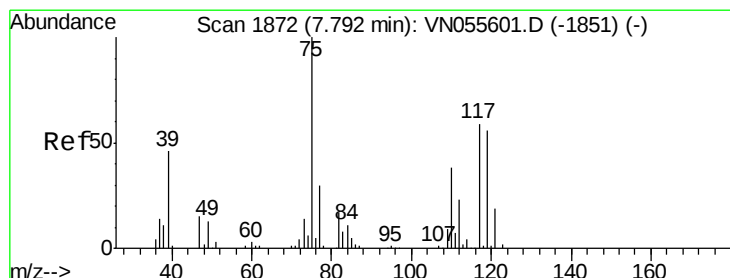
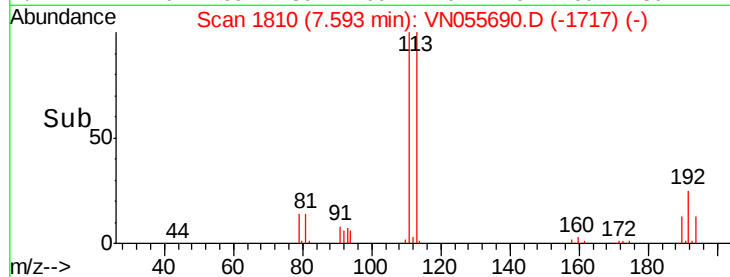
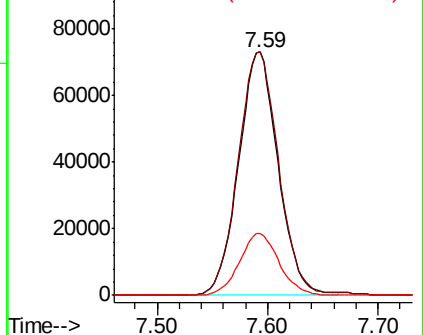


Abundance

Ion 112.80 (112.50 to 113.50): V

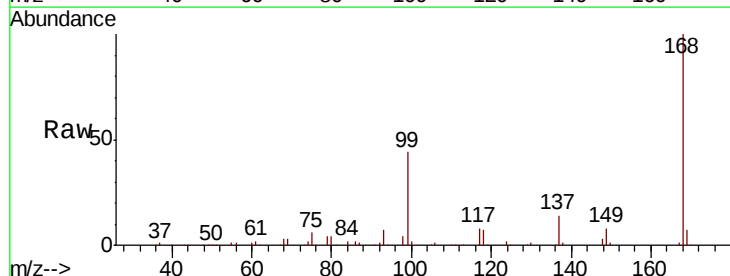
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36
 1,1-Dichloropropene
 Concen: 4.495 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN055690.D
 Acq: 20 May 2019 23:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.6	55.6#
77	0.0	24.9	37.3#

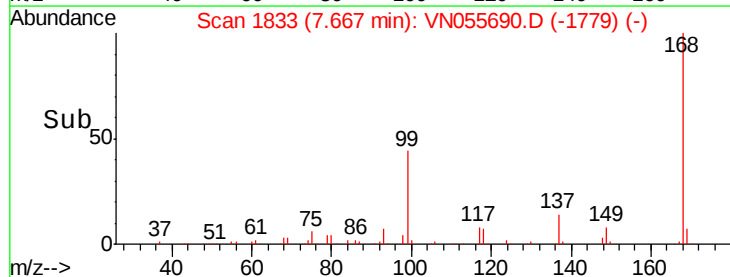
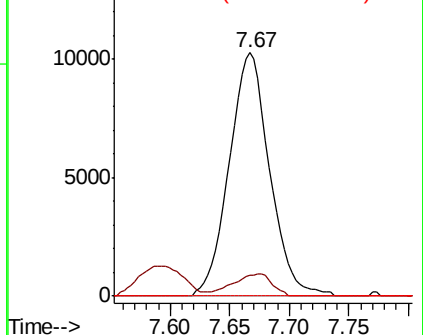


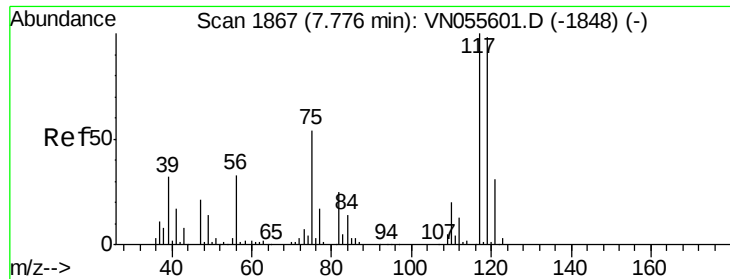
Abundance

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





#38

Carbon Tetrachloride

Concen: 5.989 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

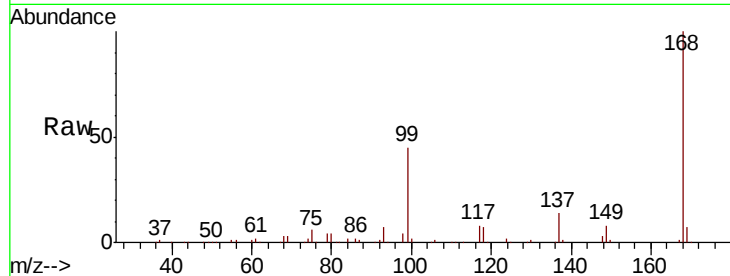
Tot Ion: 117 Resp: 34365

Ion Ratio Lower Upper

117 100

119 4.8 77.8 116.8#

121 0.0 24.6 37.0#

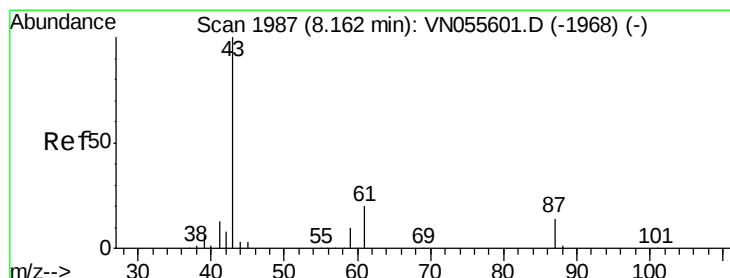
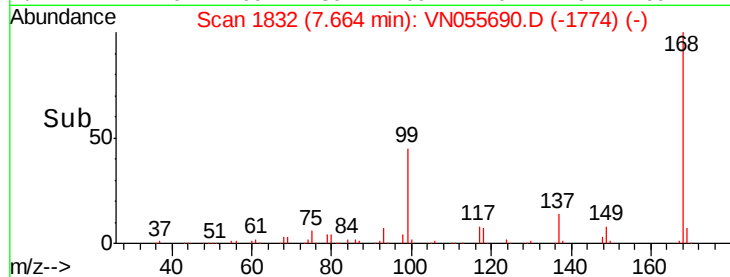
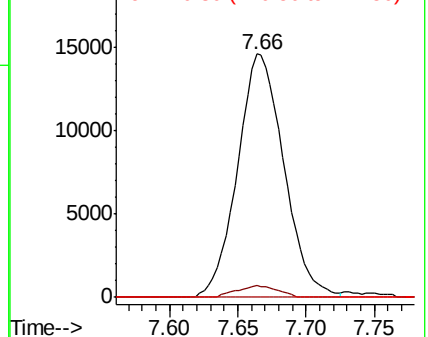


Abundance

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



#43

Isopropyl Acetate

Concen: 0.732 ug/l

RT: 8.22 min Scan# 2006

Delta R.T. 0.06 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

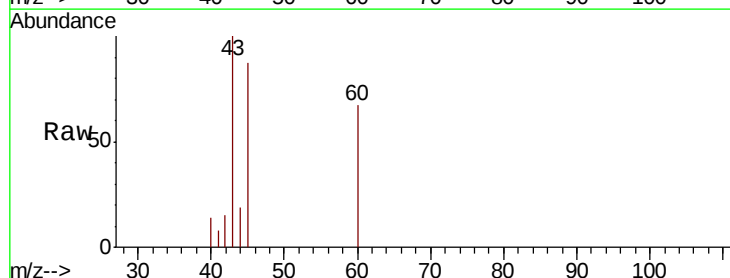
Tgt Ion: 43 Resp: 6172

Ion Ratio Lower Upper

43 100

61 0.0 22.1 33.1#

87 0.0 11.8 17.6#

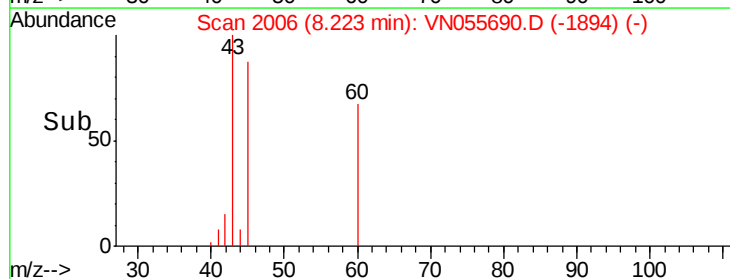
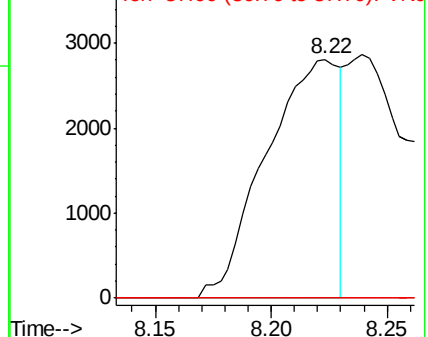


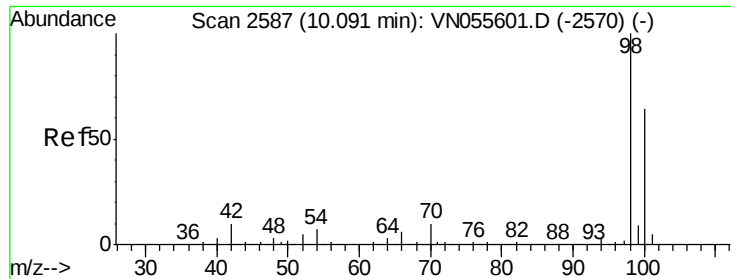
Abundance

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: 47.742 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055690.D

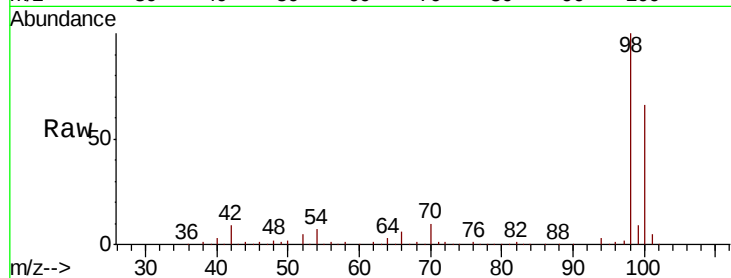
Acq: 20 May 2019 23:56

Tot Ion: 98 Resp: 690652

Ion Ratio Lower Upper

98 100

100 65.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055690.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN055690.D (-2494) (-)

10.09

400000

300000

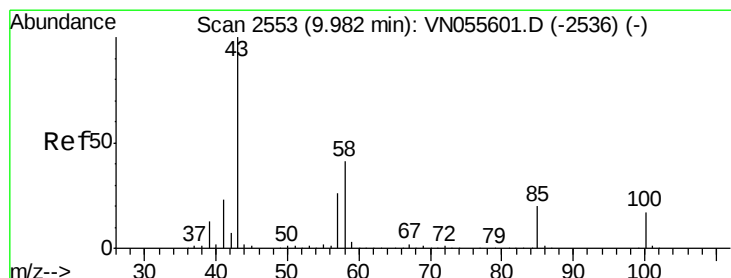
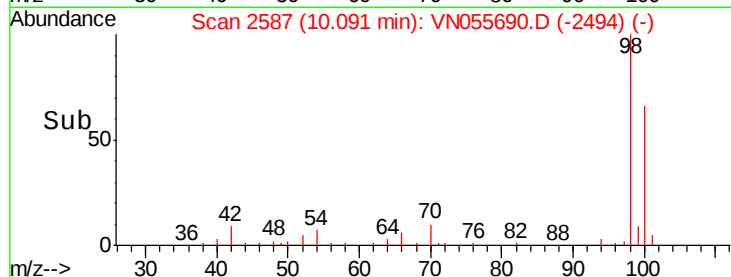
200000

100000

0

Time-->

10.00 10.10 10.20



#51

4-Methyl-2-Pentanone

Concen: 0.328 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055690.D

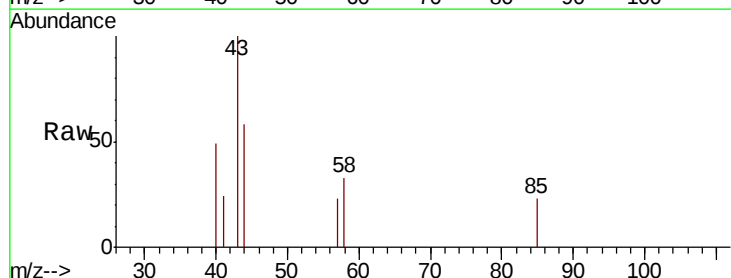
Acq: 20 May 2019 23:56

Tgt Ion: 43 Resp: 1624

Ion Ratio Lower Upper

43 100

58 17.1 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN055690.D (-2460) (-)

Ion 58.00 (57.70 to 58.70): VN055690.D (-2460) (-)

9.99

800

600

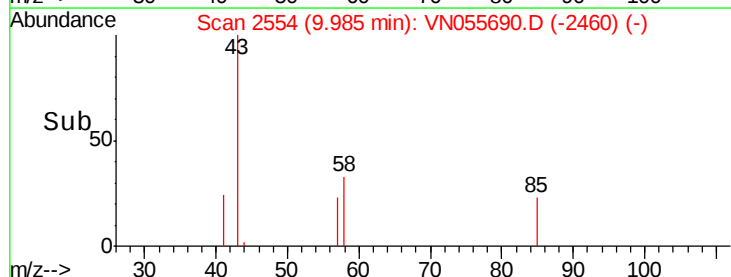
400

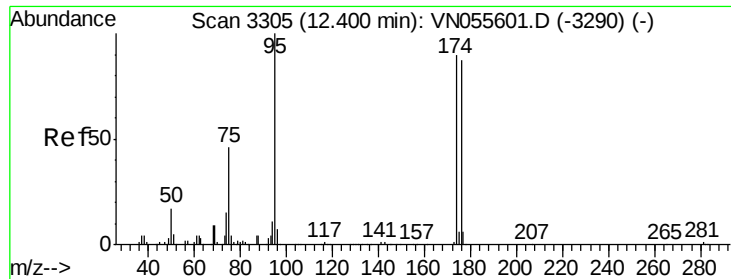
200

0

Time-->

9.95 10.00





#62

4-Bromofluorobenzene

Concen: 42.483 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

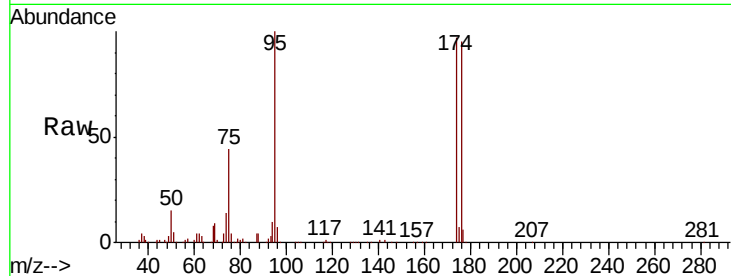
Tot Ion: 95 Resp: 212219

Ion Ratio Lower Upper

95 100

174 99.1 0.0 180.6

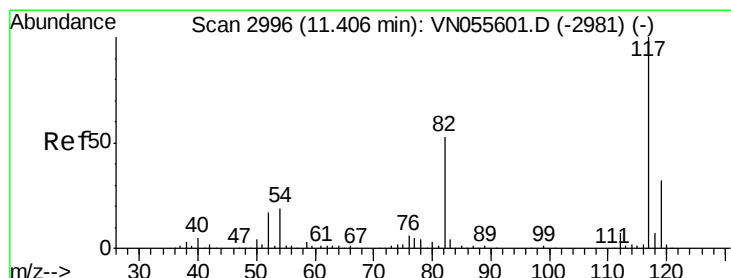
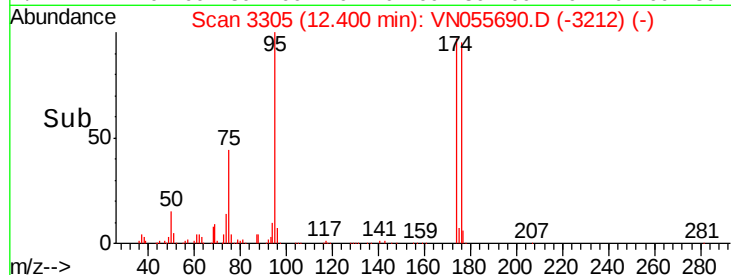
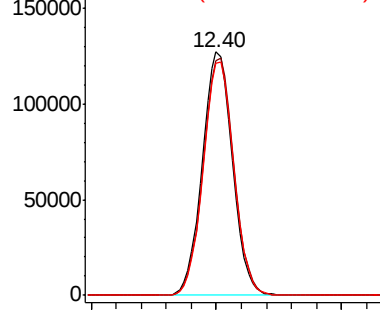
176 96.9 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

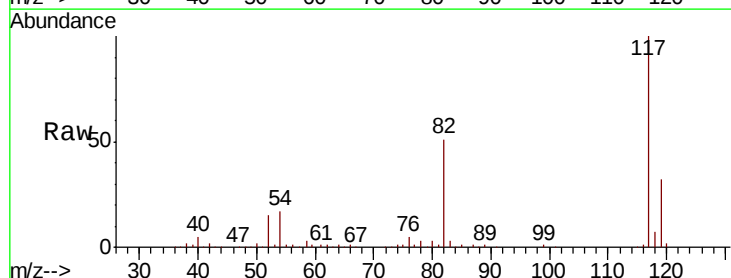
Tgt Ion: 117 Resp: 514872

Ion Ratio Lower Upper

117 100

82 51.4 42.3 63.5

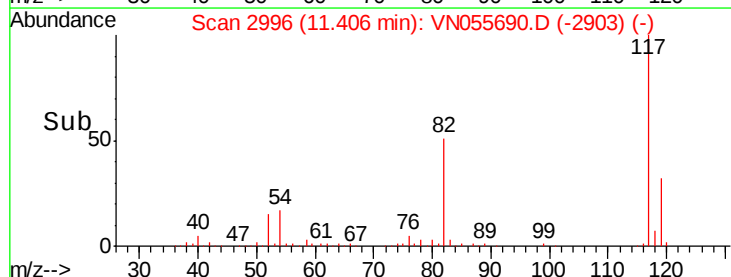
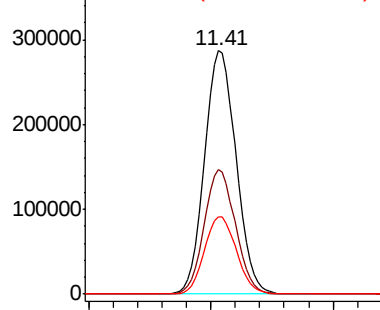
119 31.9 25.4 38.2

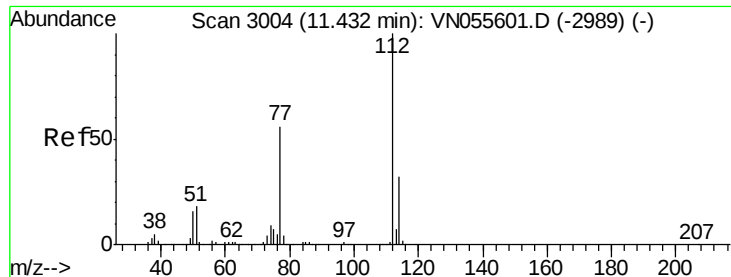


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

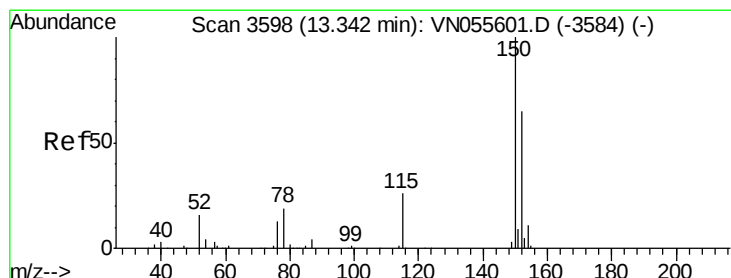
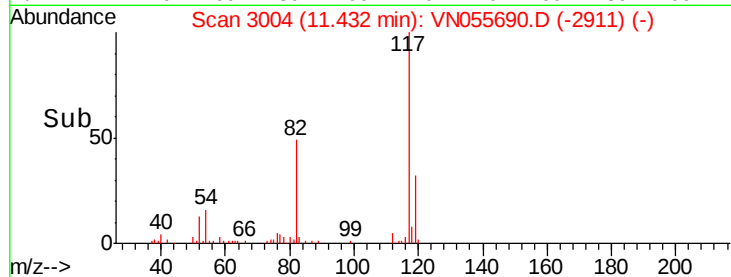
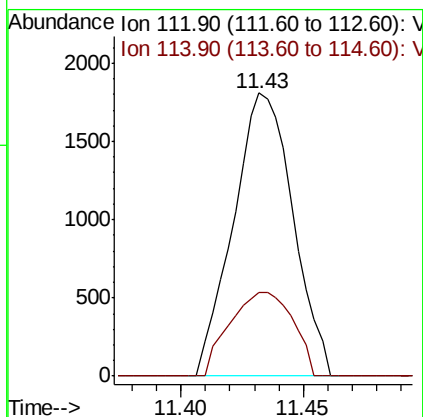
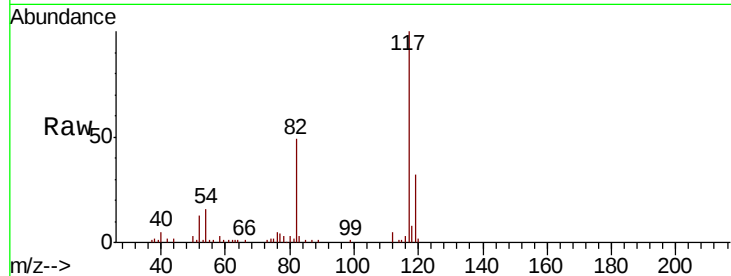
Ion 118.90 (118.60 to 119.60): V





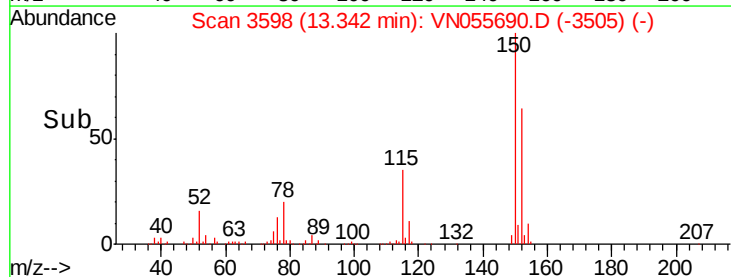
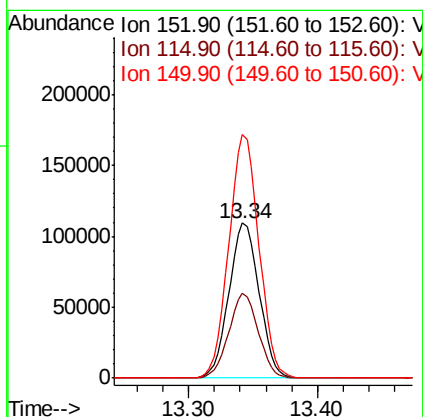
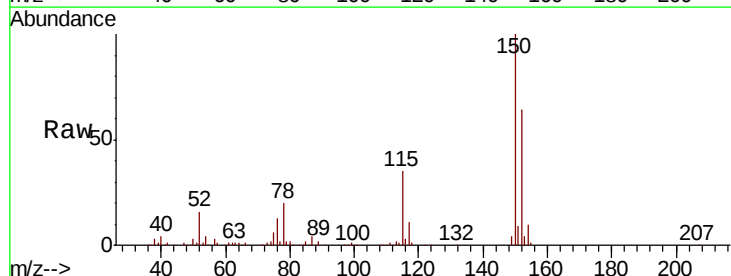
#65
Chlorobenzene
Concen: 0.295 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN055690.D
Acq: 20 May 2019 23:56

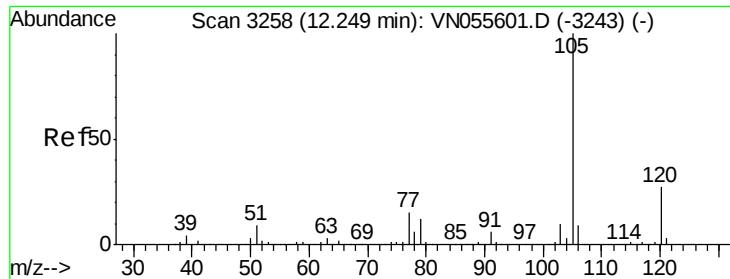
Tot Ion:112 Resp: 3069
Ion Ratio Lower Upper
112 100
114 29.4 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN055690.D
Acq: 20 May 2019 23:56

Tgt Ion:152 Resp: 177765
Ion Ratio Lower Upper
152 100
115 53.4 28.1 84.2
150 156.6 0.0 348.0





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.24 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN055690.D

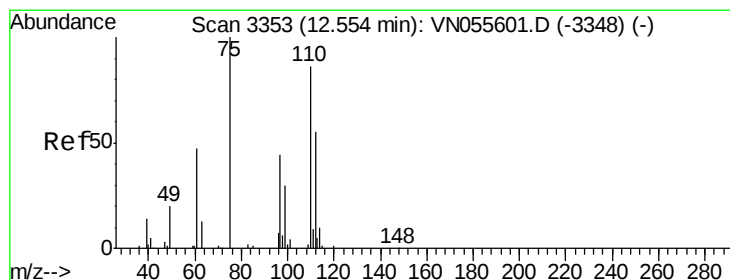
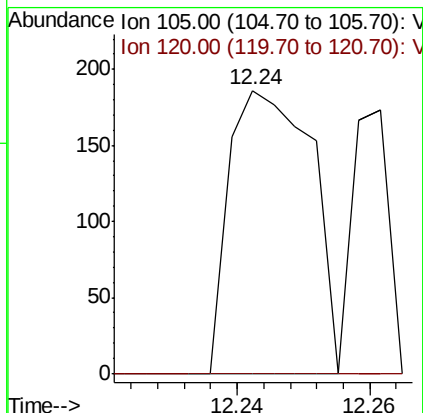
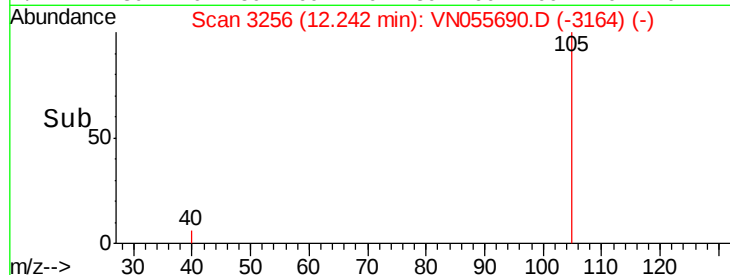
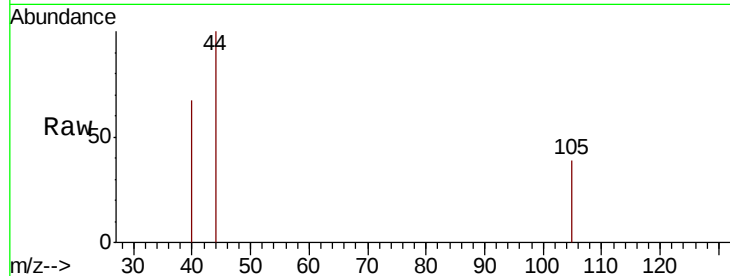
Acq: 20 May 2019 23:56

Tot Ion: 105 Resp: 161

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 26.516 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055690.D

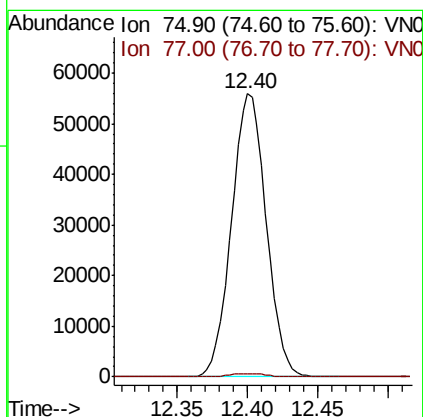
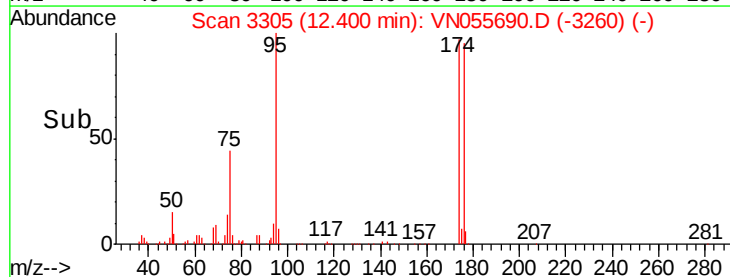
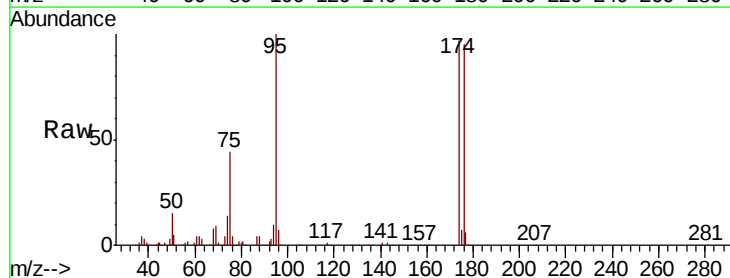
Acq: 20 May 2019 23:56

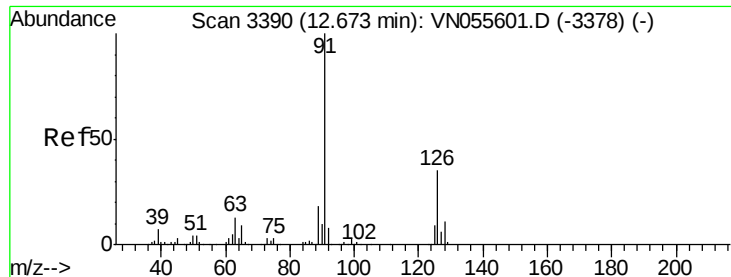
Tgt Ion: 75 Resp: 96183

Ion Ratio Lower Upper

75 100

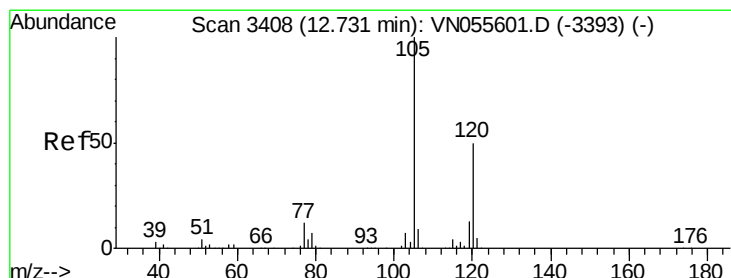
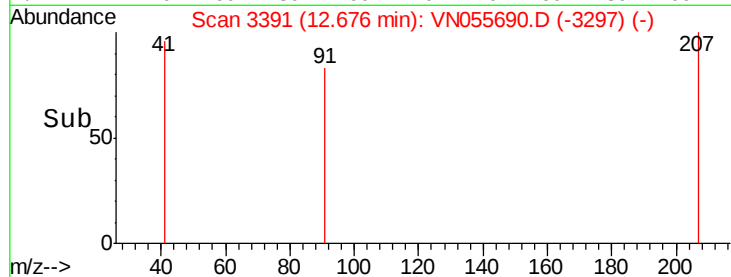
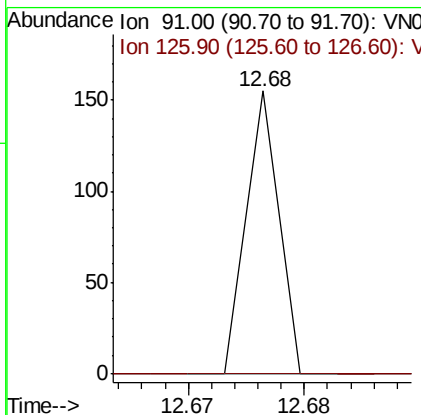
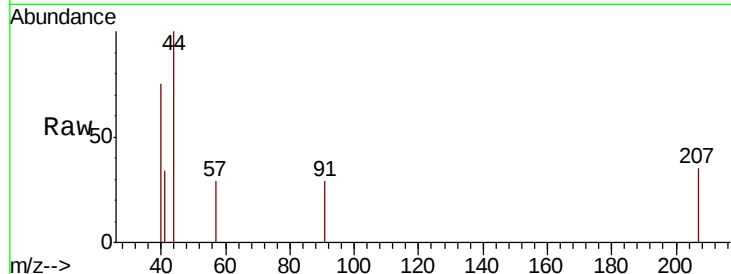
77 1.1 0.0 0.0#





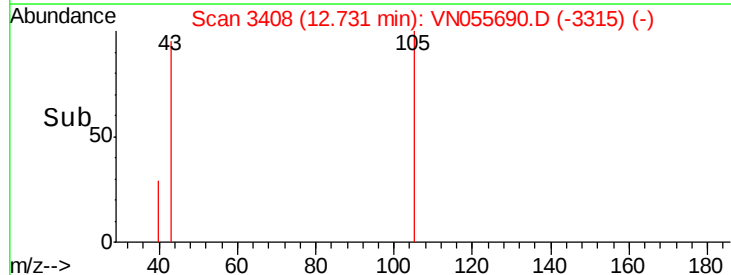
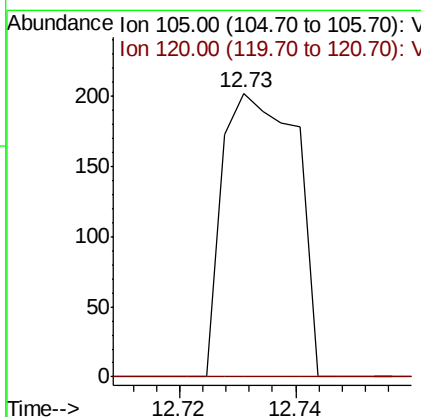
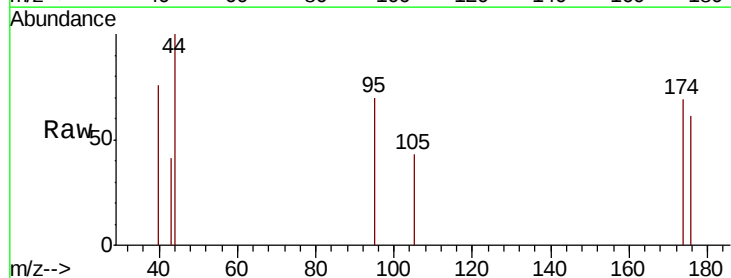
#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN055690.D
 Acq: 20 May 2019 23:56

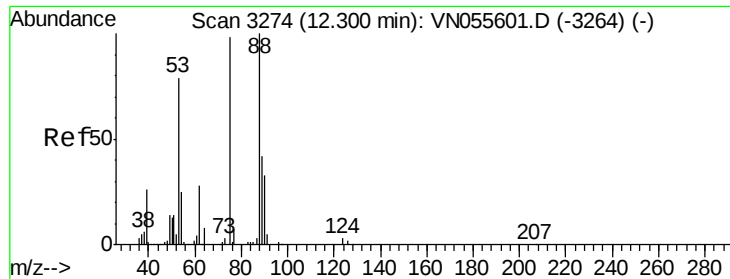
Tot Ion: 91 Resp: 30
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.8 53.4#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055690.D
 Acq: 20 May 2019 23:56

Tgt Ion: 105 Resp: 178
 Ion Ratio Lower Upper
 105 100
 120 0.0 24.6 74.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 68.162 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

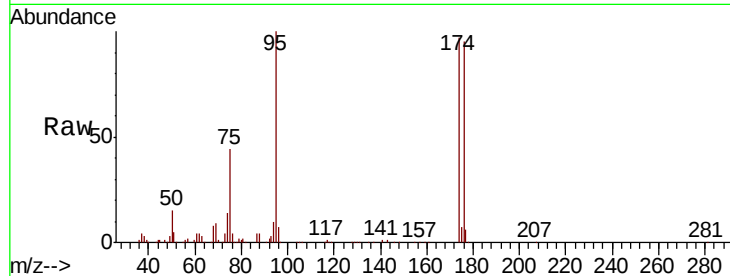
Tot Ion: 75 Resp: 96183

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

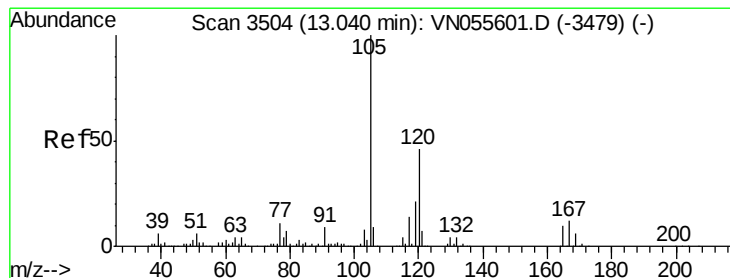
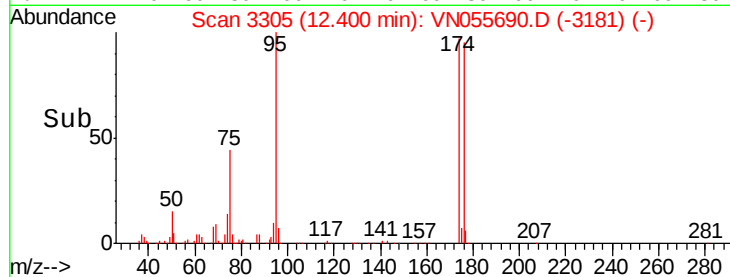
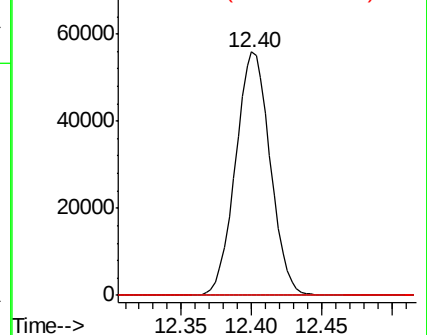
89 0.0 36.4 54.6#



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



#84

1,2,4-Trimethylbenzene

Concen: Below Cal

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055690.D

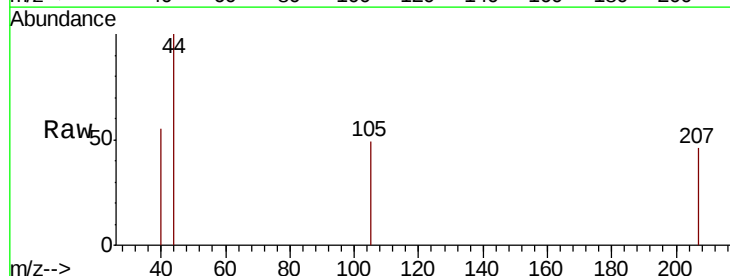
Acq: 20 May 2019 23:56

Tgt Ion: 105 Resp: 364

Ion Ratio Lower Upper

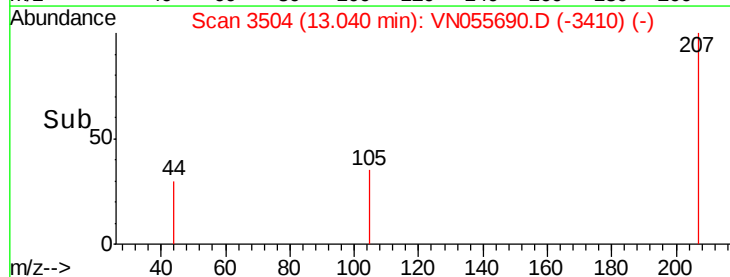
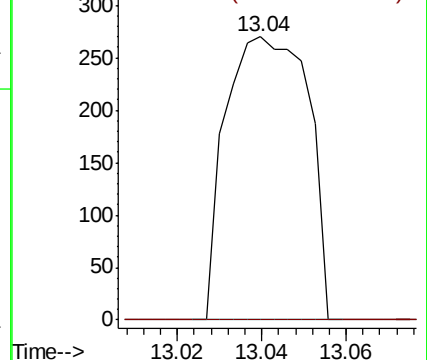
105 100

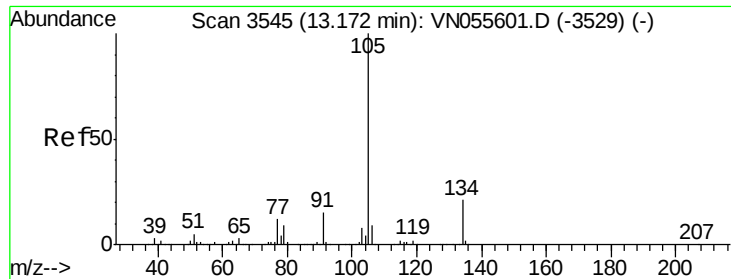
120 0.0 23.1 69.2#



Abundance Ion 105.00 (104.70 to 105.70): V

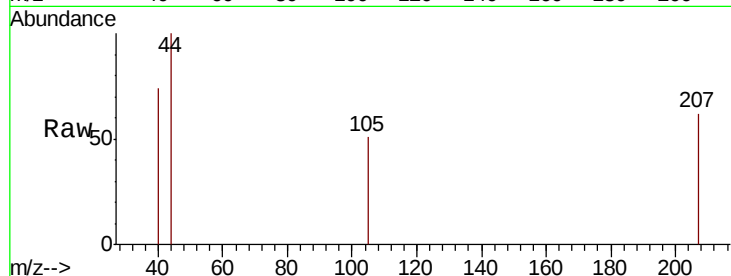
Ion 120.00 (119.70 to 120.70): V



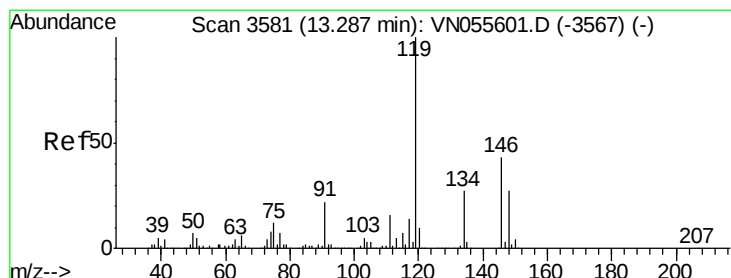
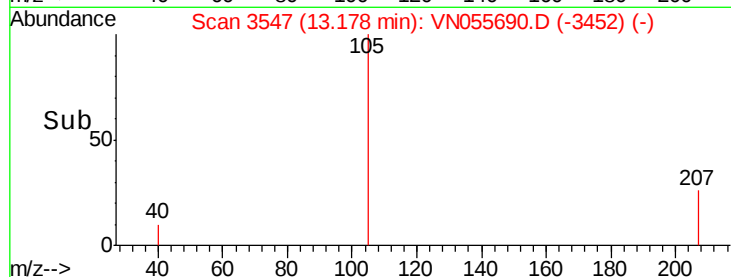
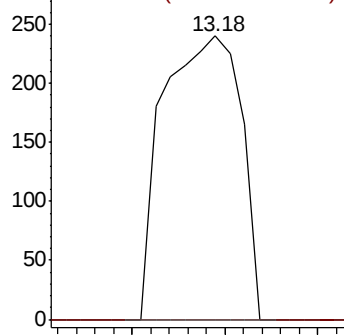


#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.01 min
 Lab File: VN055690.D
 Acq: 20 May 2019 23:56

Tot Ion:105 Resp: 282
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.3 30.9#

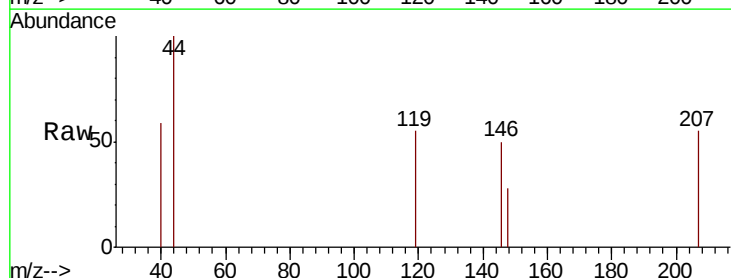


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 134.00 (133.70 to 134.70): V

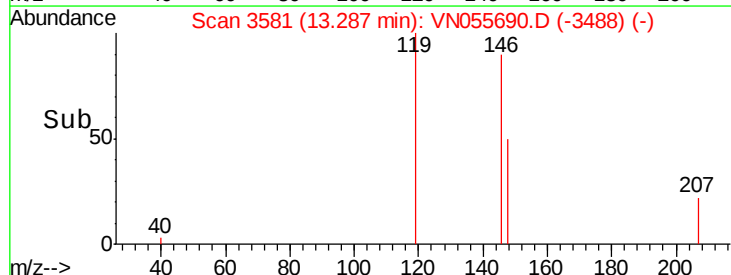
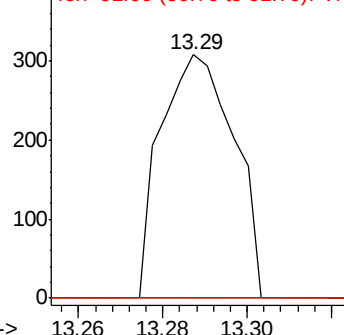


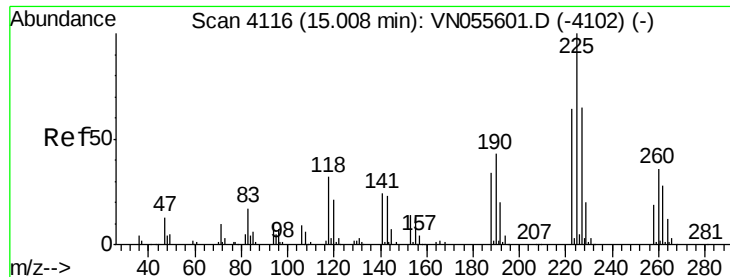
#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN055690.D
 Acq: 20 May 2019 23:56

Tgt Ion:119 Resp: 370
 Ion Ratio Lower Upper
 119 100
 134 0.0 13.4 40.2#
 91 0.0 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





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

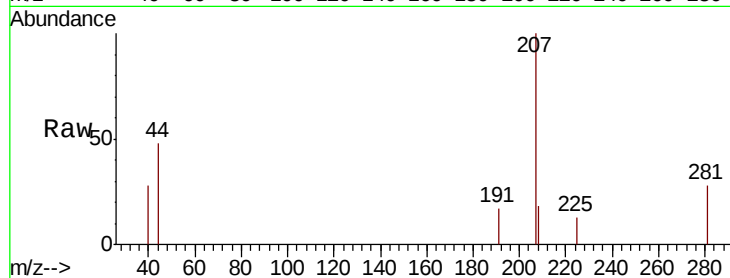
Tot Ion:225 Resp: 92

Ion Ratio Lower Upper

225 100

223 0.0 31.6 94.7#

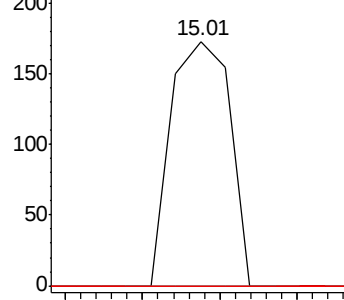
227 0.0 32.4 97.0#



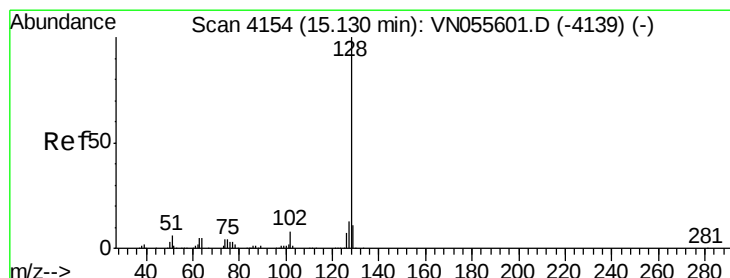
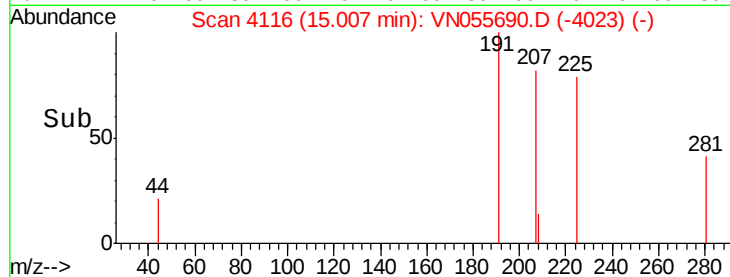
Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



Time--> 14.99 15.00 15.01 15.02



#95

Naphthalene

Concen: 1.832 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055690.D

Acq: 20 May 2019 23:56

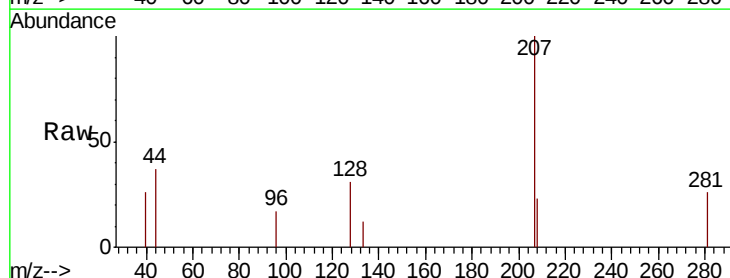
Tgt Ion:128 Resp: 646

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

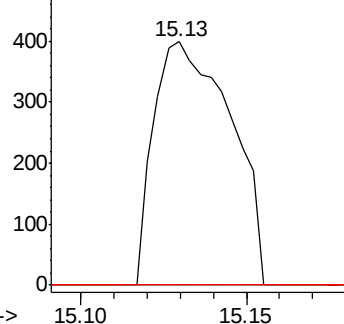
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time--> 15.10 15.15

