

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052019\
 Data File : VN055668.D
 Acq On : 20 May 2019 12:50
 Operator : JC/SP
 Sample : K2945-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

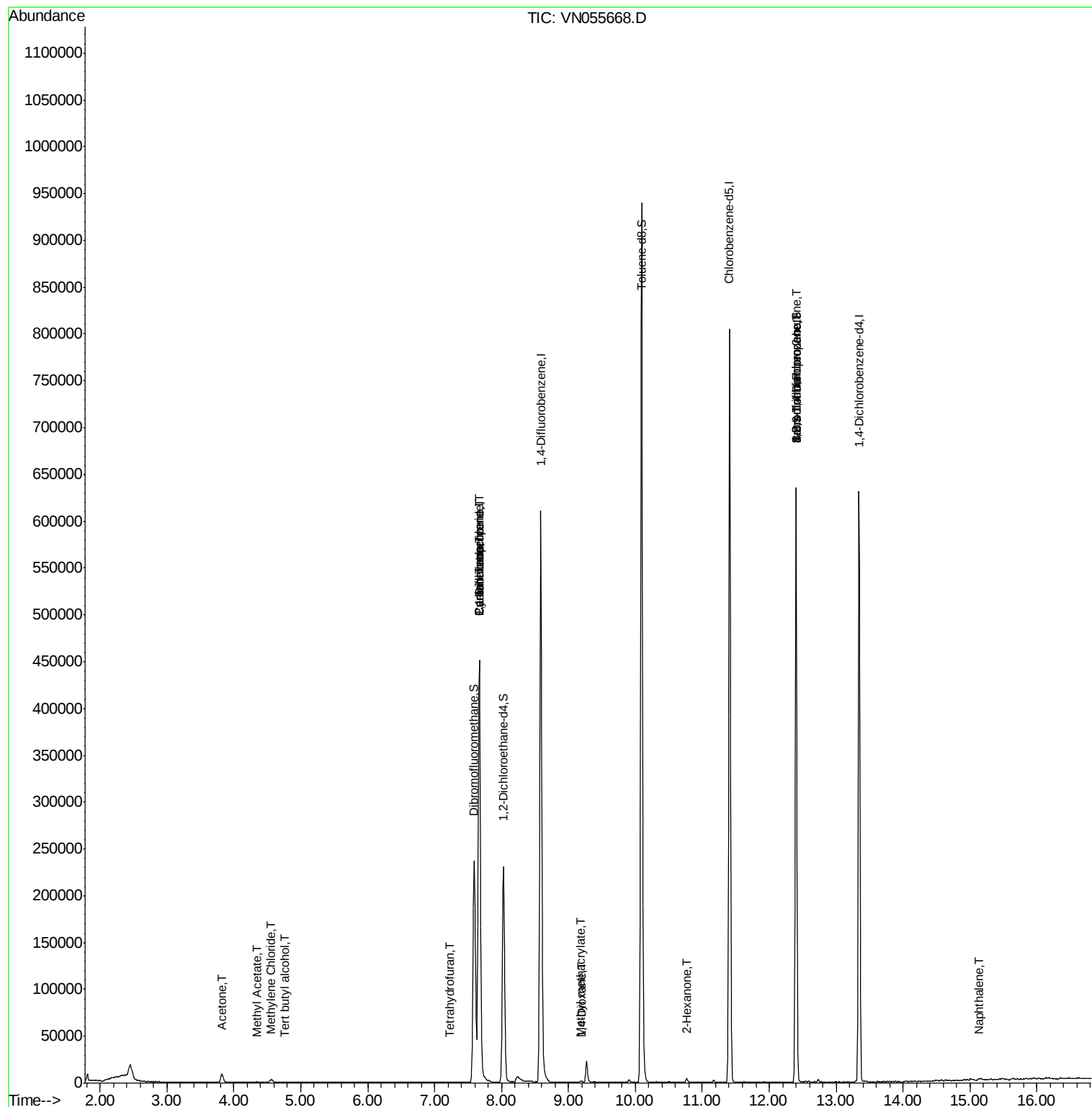
Quant Time: May 21 04:34:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051719W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 17 23:54:12 2019
 Response via : Initial Calibration

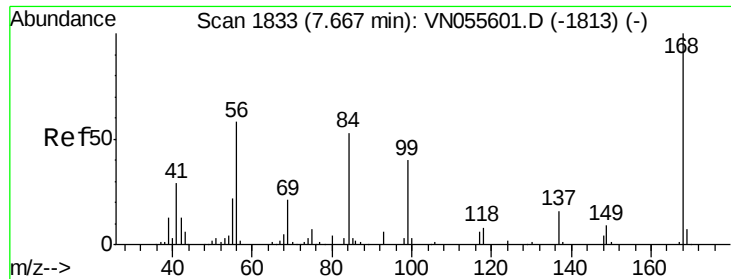
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	431386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	609685	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	516429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	188733	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	195597	41.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.72%	
35) Dibromofluoromethane	7.59	113	185914	48.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.00%	
50) Toluene-d8	10.09	98	708421	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	
62) 4-Bromofluorobenzene	12.40	95	219007	43.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.62%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.77	59	519	0.589	ug/l #	74
16) Acetone	3.82	43	17226	8.926	ug/l	95
18) Methyl Acetate	4.34	43	2353	0.569	ug/l #	53
20) Methylene Chloride	4.56	84	2956	0.671	ug/l	89
29) Tetrahydrofuran	7.23	42	623	0.349	ug/l #	35
31) Cyclohexane	7.67	56	6484	0.925	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	25806	4.748	ug/l #	48
38) Carbon Tetrachloride	7.67	117	35763	6.157	ug/l #	15
48) Methyl methacrylate	9.18	41	1384	0.363	ug/l #	11
49) 1,4-Dioxane	9.20	88	69	0.911	ug/l #	25
59) 2-Hexanone	10.76	43	717	0.203	ug/l #	23
71) Bromoform	12.40	173	1465	0.411	ug/l #	1
73) Isopropylbenzene	12.25	105	272	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	98521	25.582	ug/l #	100
79) 2-Chlorotoluene	12.68	91	320	Below Cal	#	39
80) 1,3,5-Trimethylbenzene	12.73	105	485	Below Cal		67
81) trans-1,4-Dichloro-2-buten	12.40	75	98521	65.762	ug/l #	17
83) tert-Butylbenzene	12.99	119	60	Below Cal	#	1
84) 1,2,4-Trimethylbenzene	13.04	105	490	Below Cal	#	30
85) sec-Butylbenzene	13.17	105	465	Below Cal	#	56
86) p-Isopropyltoluene	13.29	119	534	Below Cal	#	71
94) Hexachlorobutadiene	15.01	225	100	Below Cal	#	18
95) Naphthalene	15.14	128	1797	1.941	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN055668.D

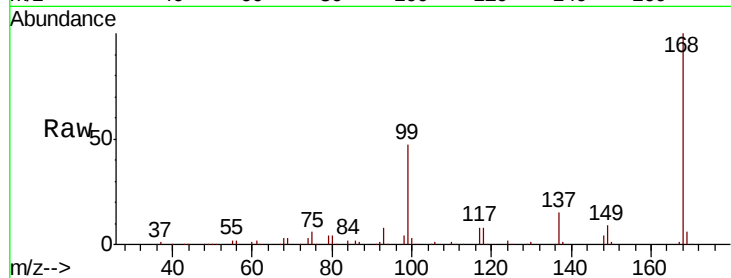
Acq: 20 May 2019 12:50

Tot Ion:168 Resp: 431386

Ion Ratio Lower Upper

168 100

99 47.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN055668.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN055668.D (-1740) (-)

7.67

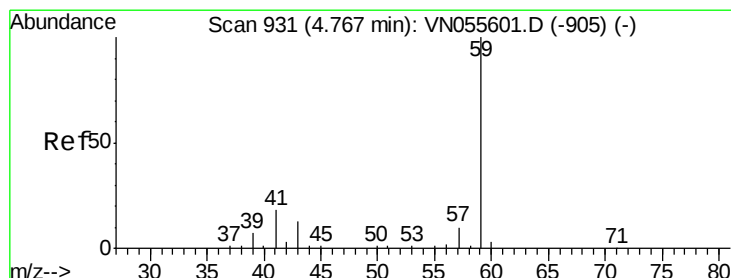
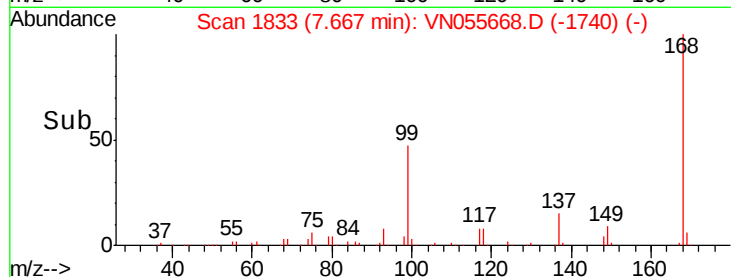
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 0.589 ug/l

RT: 4.77 min Scan# 933

Delta R.T. 0.01 min

Lab File: VN055668.D

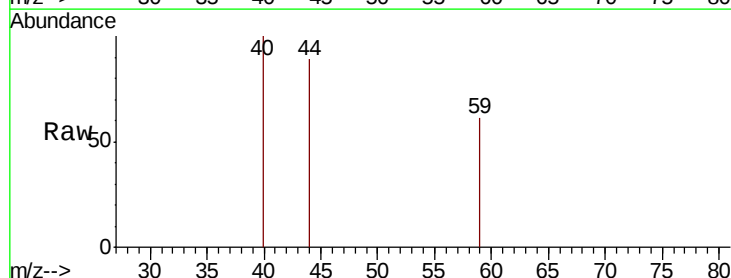
Acq: 20 May 2019 12:50

Tgt Ion: 59 Resp: 519

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN055668.D (-838) (-)

Ion 57.00 (56.70 to 57.70): VN055668.D (-838) (-)

4.77

300

250

200

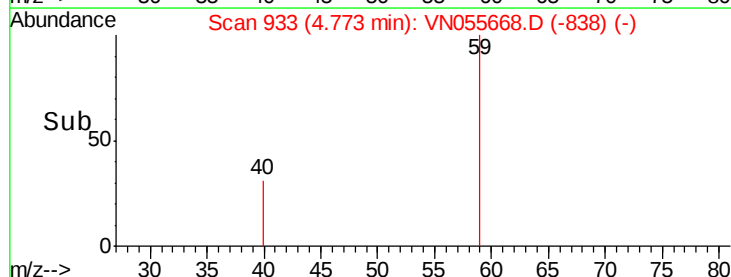
150

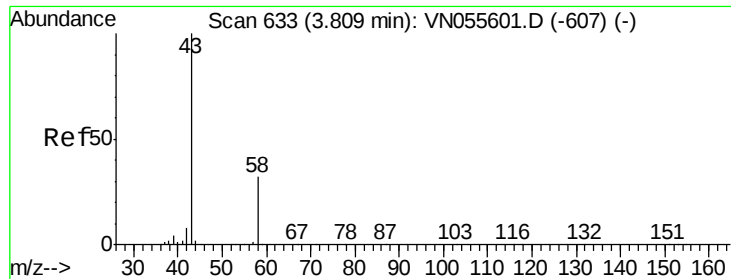
100

50

0

Time--> 4.74 4.76 4.78 4.80





#16

Acetone

Concen: 8.926 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN055668.D

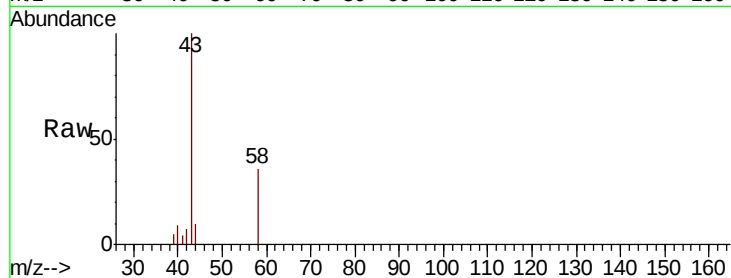
Acq: 20 May 2019 12:50

Tot Ion: 43 Resp: 17226

Ion Ratio Lower Upper

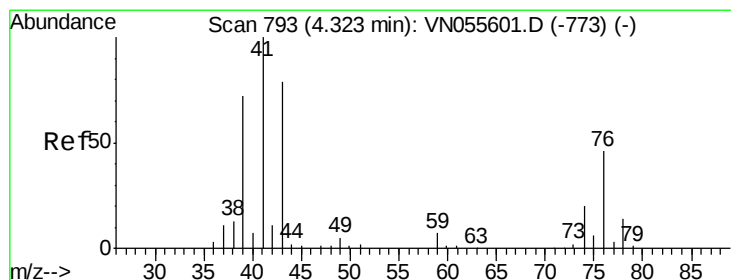
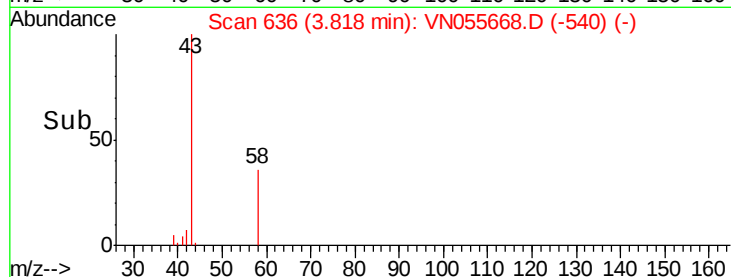
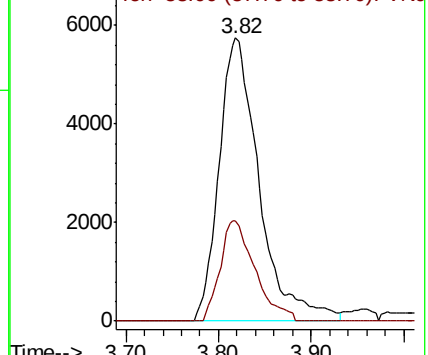
43 100

58 35.5 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.569 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN055668.D

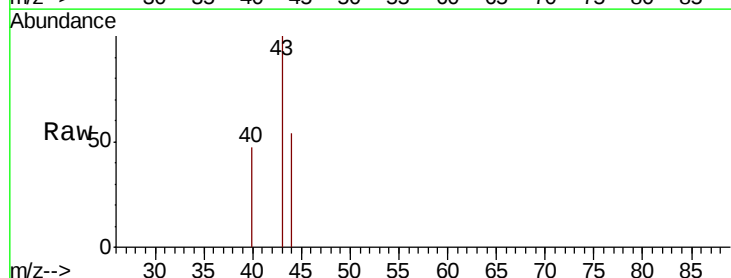
Acq: 20 May 2019 12:50

Tgt Ion: 43 Resp: 2353

Ion Ratio Lower Upper

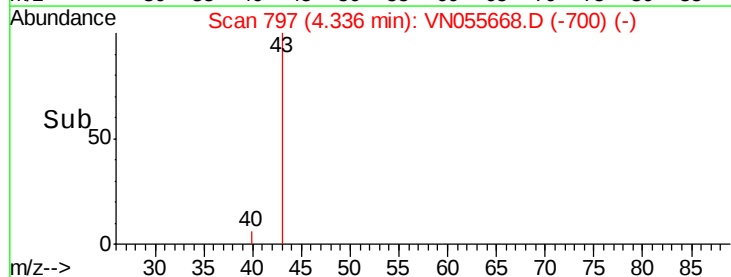
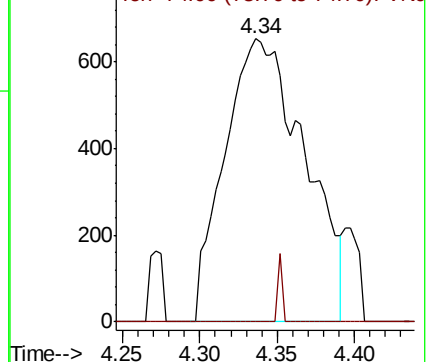
43 100

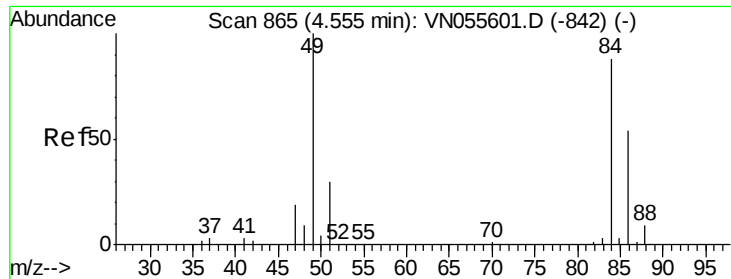
74 1.3 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 0.671 ug/l

RT: 4.56 min Scan# 867

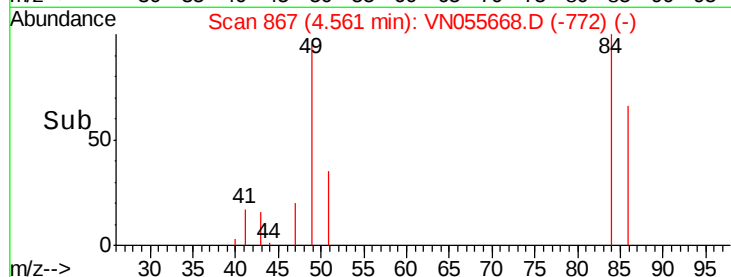
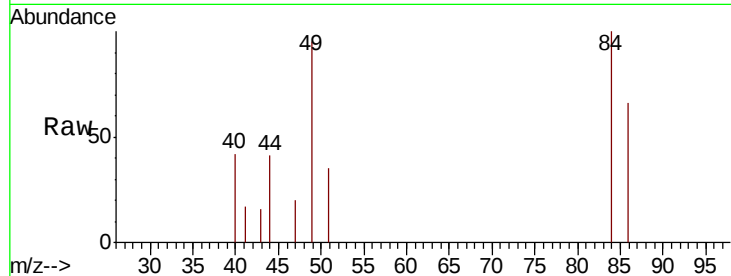
Delta R.T. 0.01 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

Tot Ion: 84 Resp: 2956

Ion	Ratio	Lower	Upper
84	100		
49	95.3	91.0	136.4
51	34.9	27.5	41.3
86	66.4	49.4	74.0

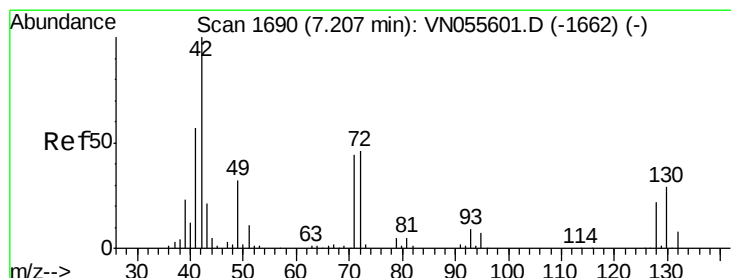
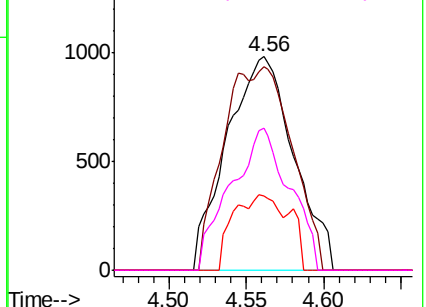


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#29

Tetrahydrofuran

Concen: 0.349 ug/l

RT: 7.23 min Scan# 1696

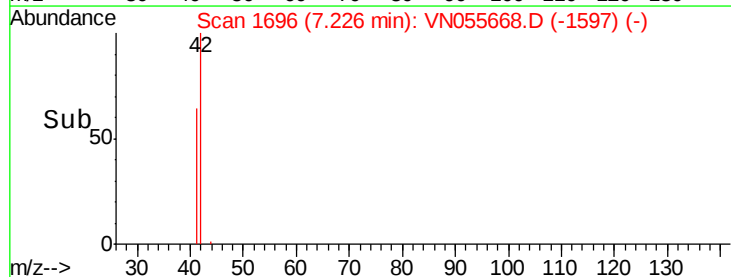
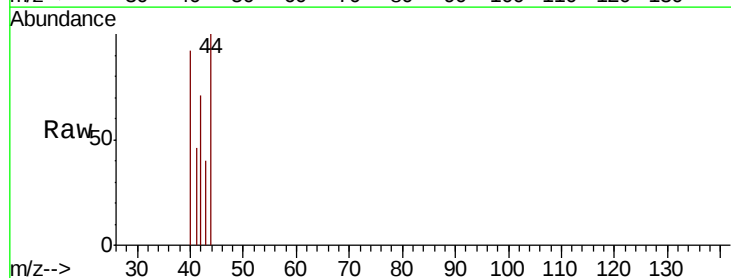
Delta R.T. 0.02 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

Tgt Ion: 42 Resp: 623

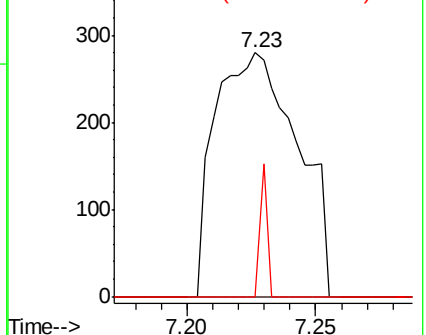
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.5	54.7#
71	4.7	34.9	52.3#

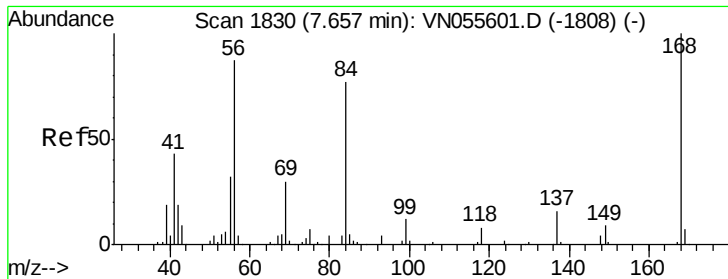


Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

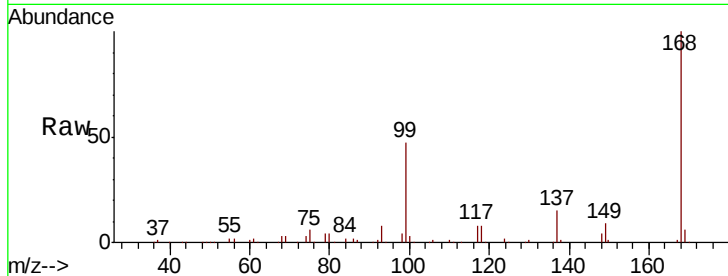
Ion 71.00 (70.70 to 71.70): VNO



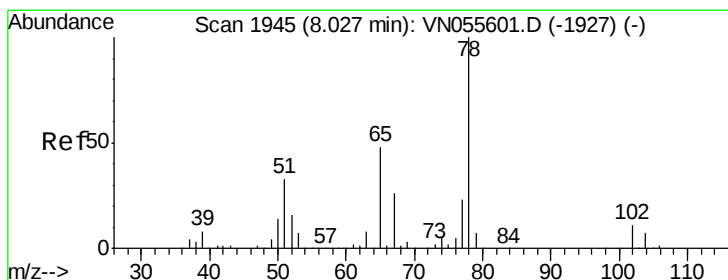
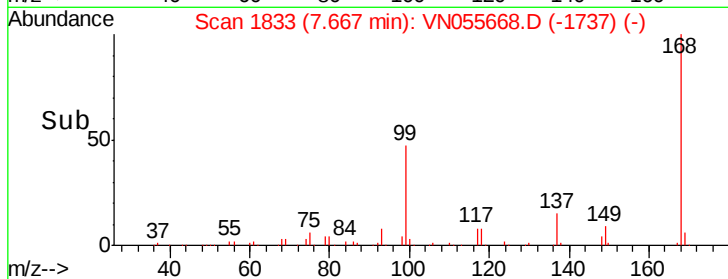
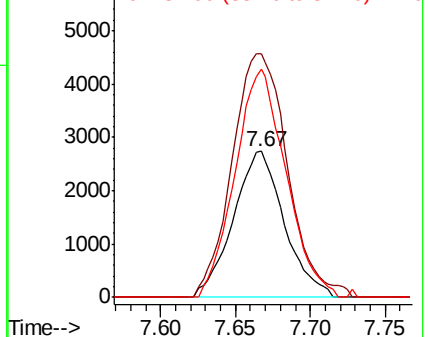


#31
Cyclohexane
Concen: 0.925 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN055668.D
Acq: 20 May 2019 12:50

Tot Ion: 56 Resp: 6484
Ion Ratio Lower Upper
56 100
69 166.4 27.2 40.8#
84 156.0 71.3 106.9#

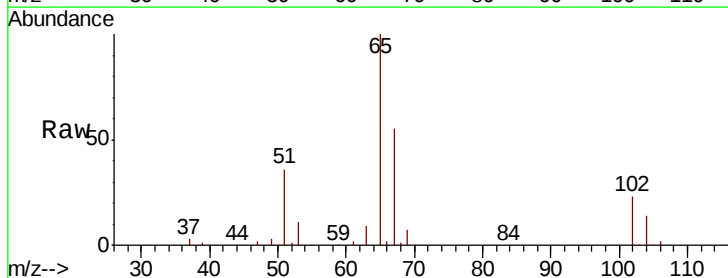


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

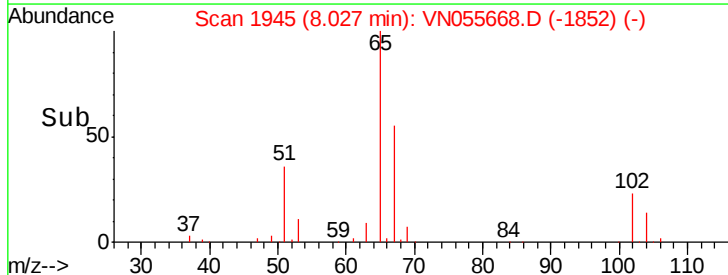
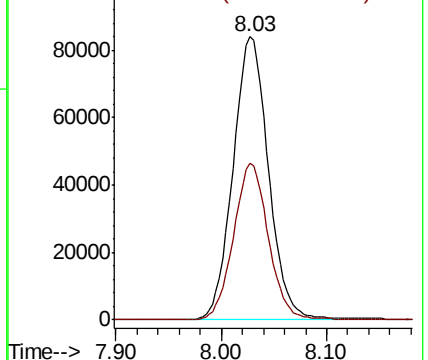


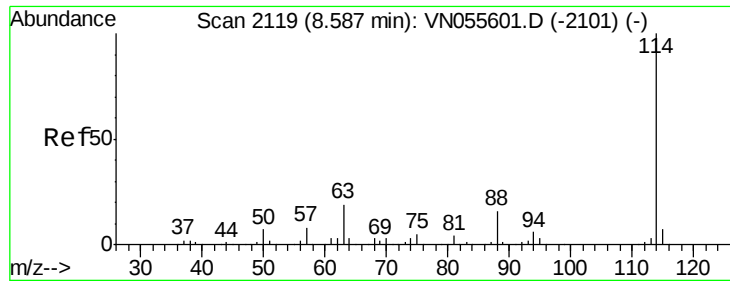
#33
1,2-Dichloroethane-d4
Concen: 41.362 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN055668.D
Acq: 20 May 2019 12:50

Tgt Ion: 65 Resp: 195597
Ion Ratio Lower Upper
65 100
67 54.7 0.0 108.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

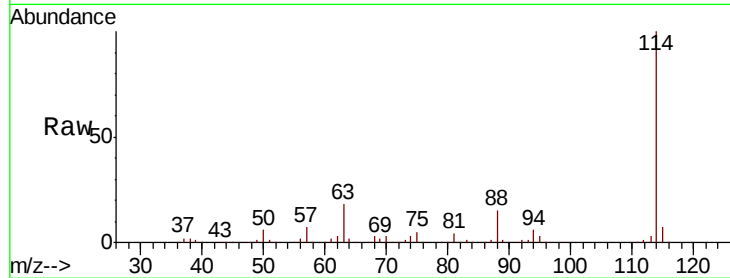
Tot Ion:114 Resp: 609685

Ion Ratio Lower Upper

114 100

63 18.2 0.0 38.2

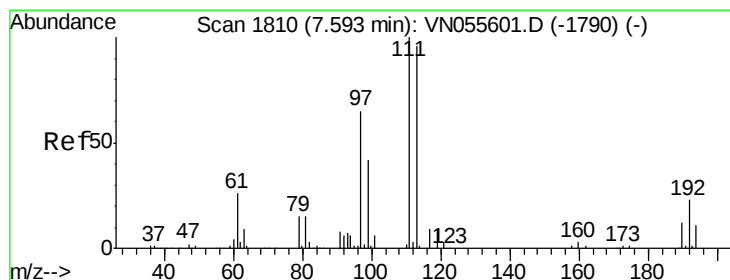
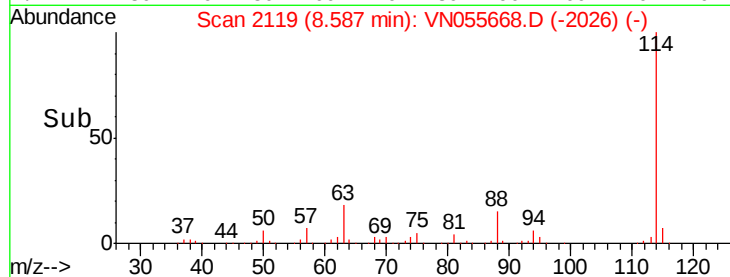
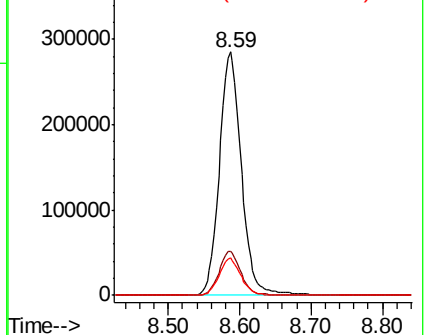
88 15.4 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.003 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

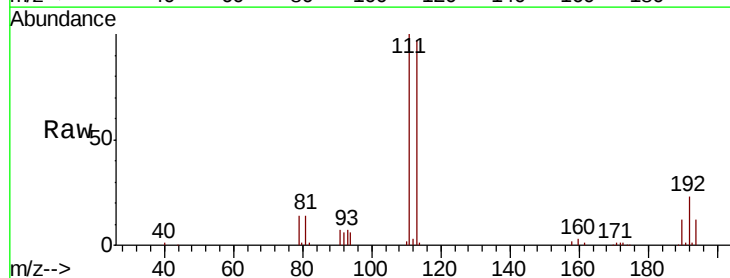
Tgt Ion:113 Resp: 185914

Ion Ratio Lower Upper

113 100

111 101.5 82.5 123.7

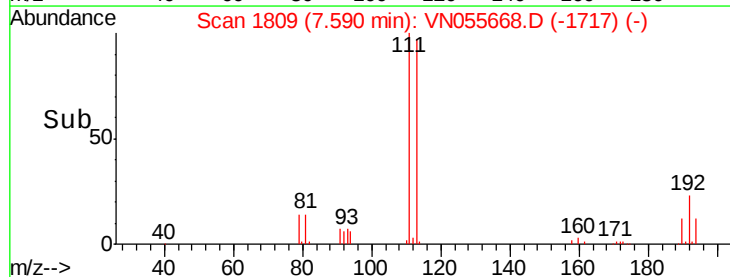
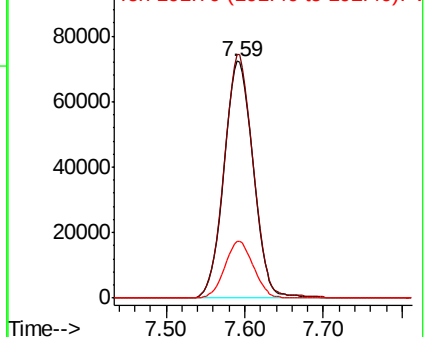
192 23.4 18.7 28.1

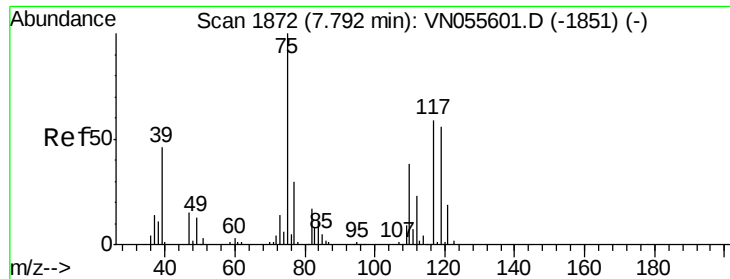


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.748 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

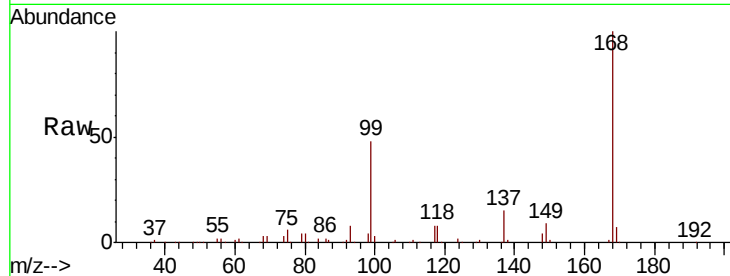
Tot Ion: 75 Resp: 25806

Ion Ratio Lower Upper

75 100

110 8.3 18.6 55.6#

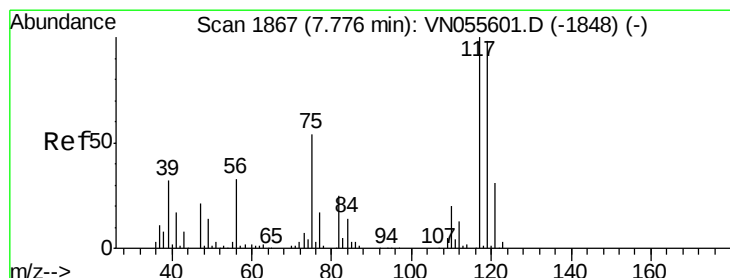
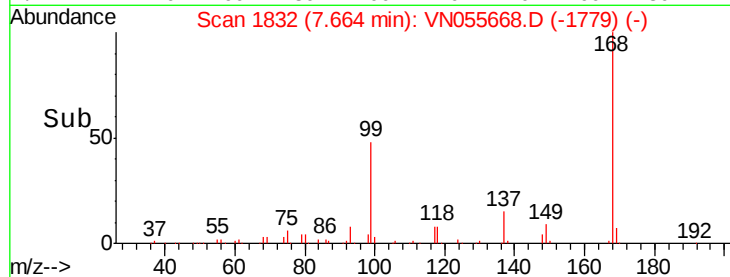
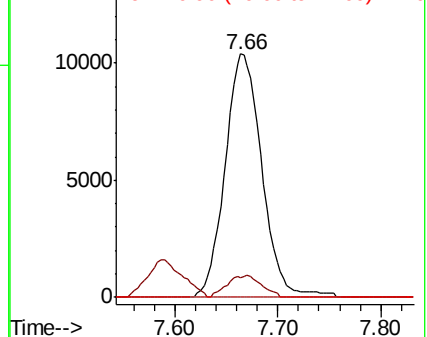
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055601.D (-1851) (-)

Ion 109.90 (109.60 to 110.60): VN055601.D (-1851) (-)

Ion 76.90 (76.60 to 77.60): VN055601.D (-1851) (-)



#38

Carbon Tetrachloride

Concen: 6.157 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

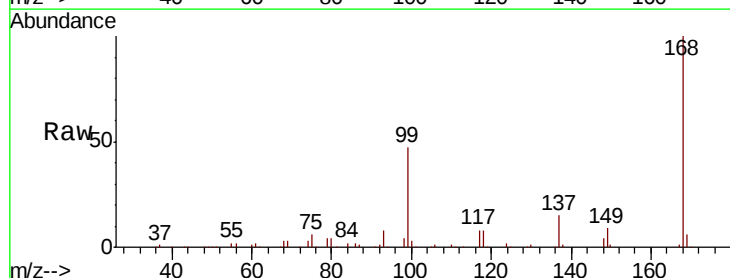
Tgt Ion: 117 Resp: 35763

Ion Ratio Lower Upper

117 100

119 5.2 77.8 116.8#

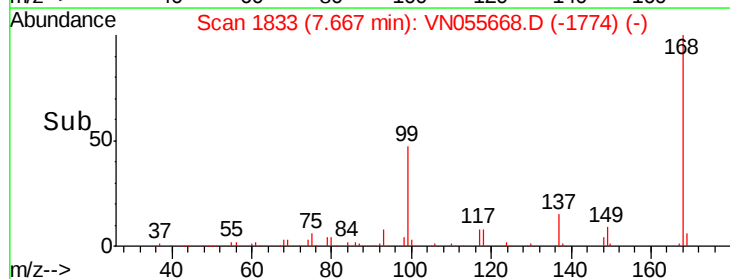
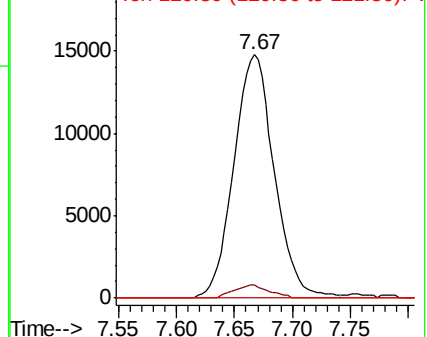
121 0.0 24.6 37.0#

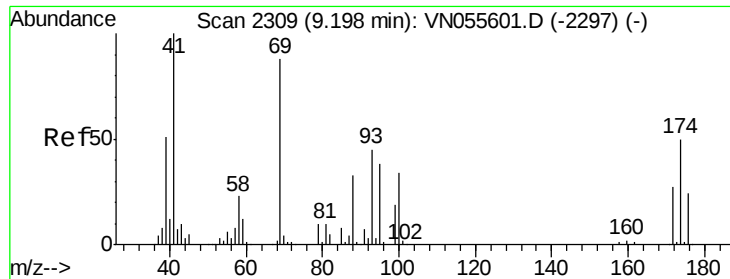


Abundance Ion 116.80 (116.50 to 117.50): VN055601.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN055601.D (-1848) (-)

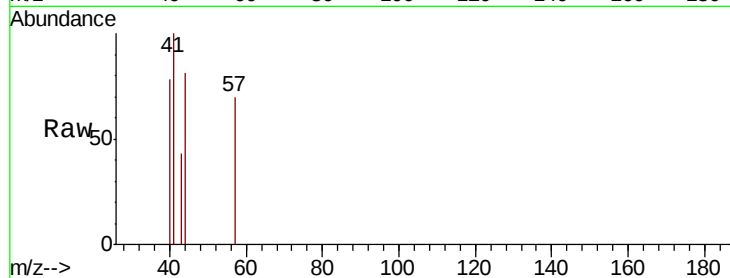
Ion 120.80 (120.50 to 121.50): VN055601.D (-1848) (-)



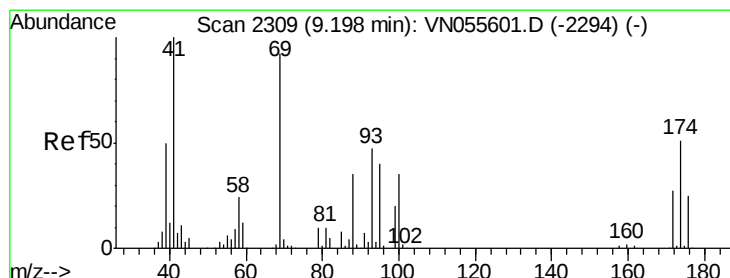
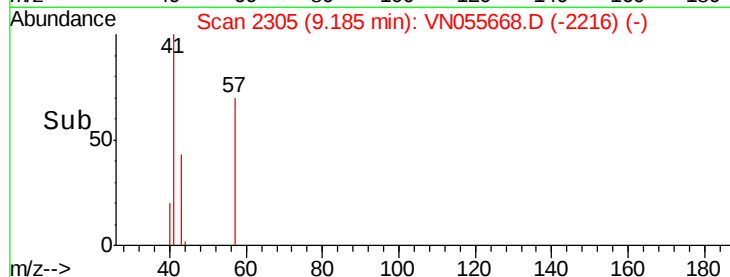
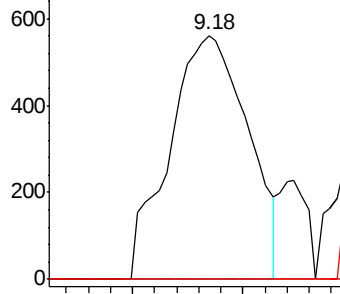


#48
Methvl methacrylate
Concen: 0.363 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN055668.D
Acq: 20 May 2019 12:50

Tot Ion: 41 Resp: 1384
Ion Ratio Lower Upper
41 100
69 0.0 74.2 111.2#
39 0.0 43.8 65.8#

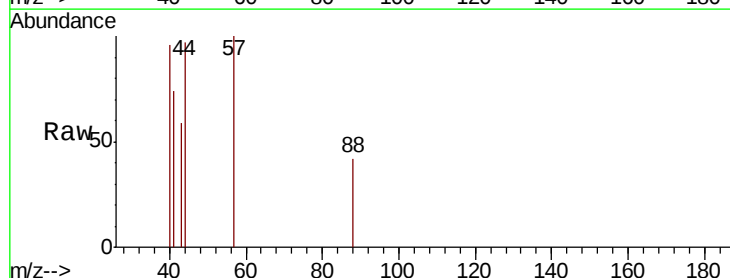


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

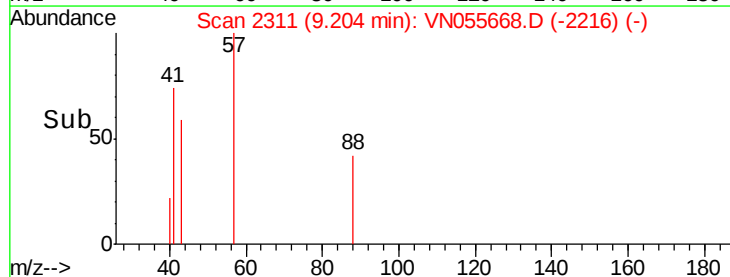
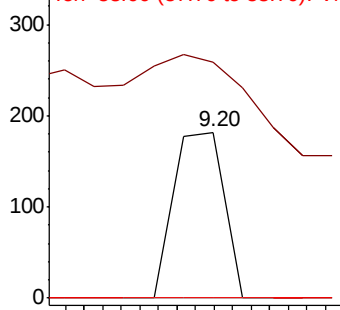


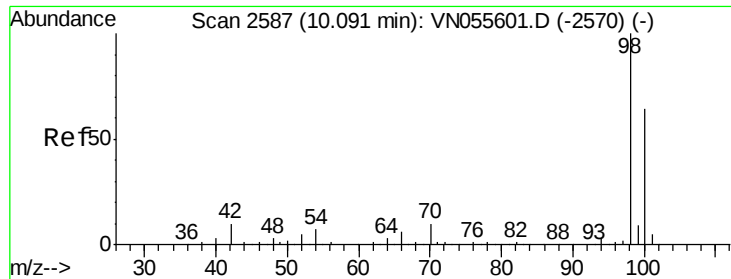
#49
1,4-Dioxane
Concen: 0.911 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.01 min
Lab File: VN055668.D
Acq: 20 May 2019 12:50

Tgt Ion: 88 Resp: 69
Ion Ratio Lower Upper
88 100
43 0.0 22.4 33.6#
58 0.0 53.4 80.2#



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





#50

Toluene-d8

Concen: 48.375 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN055668.D

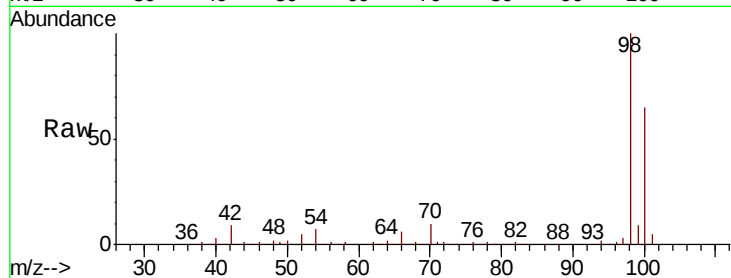
Acq: 20 May 2019 12:50

Tot Ion: 98 Resp: 708421

Ion Ratio Lower Upper

98 100

100 64.4 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055668.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055668.D (-2570) (-)

10.09

400000

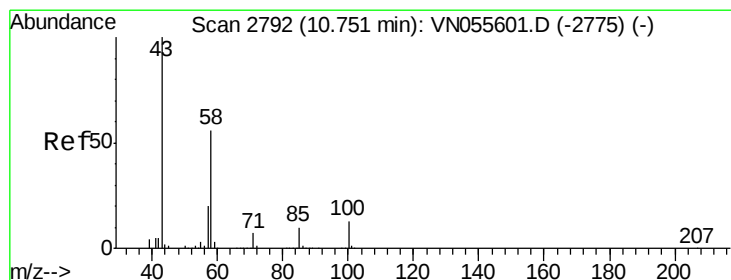
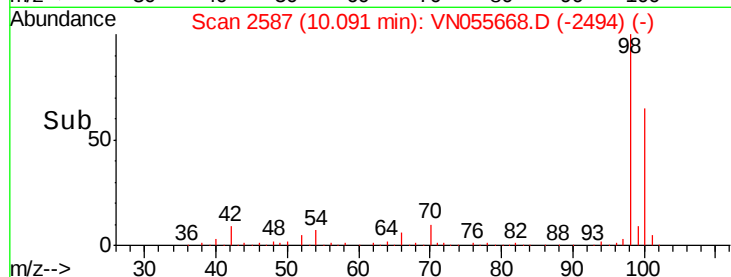
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.203 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055668.D

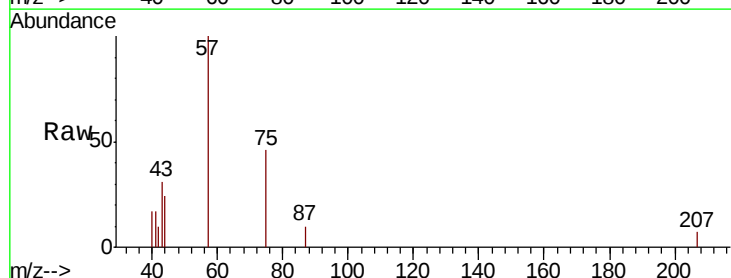
Acq: 20 May 2019 12:50

Tgt Ion: 43 Resp: 717

Ion Ratio Lower Upper

43 100

58 0.0 28.1 84.4#



Abundance Ion 43.00 (42.70 to 43.70): VN055668.D (-2699) (-)

Ion 58.00 (57.70 to 58.70): VN055668.D (-2699) (-)

10.76

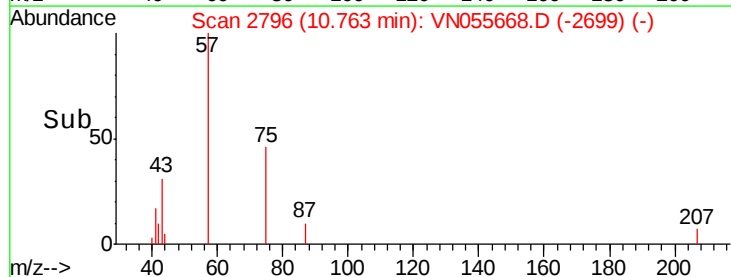
600

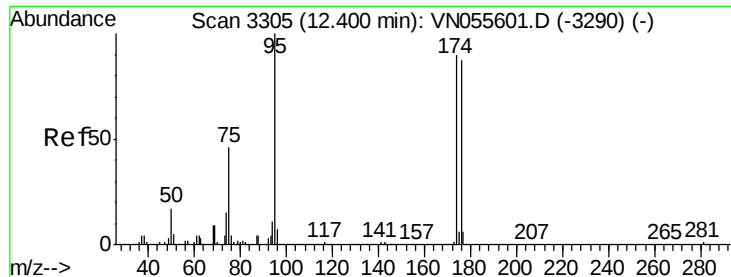
400

200

0

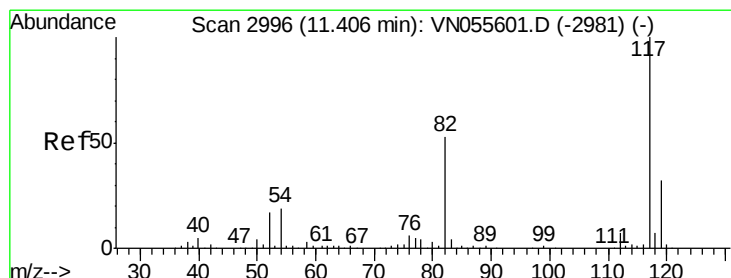
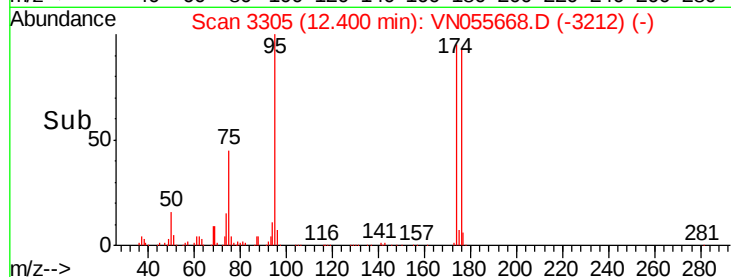
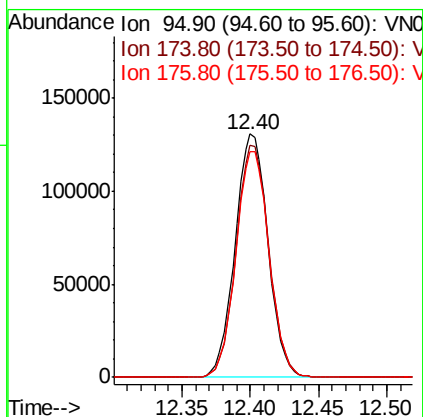
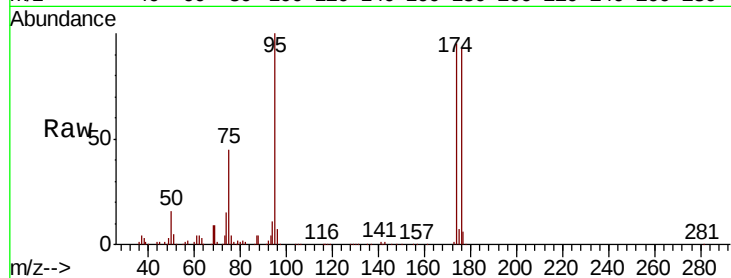
Time-->





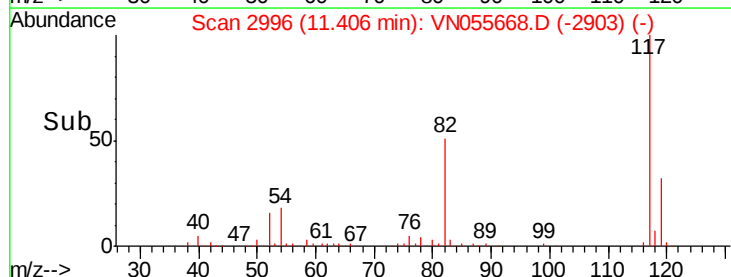
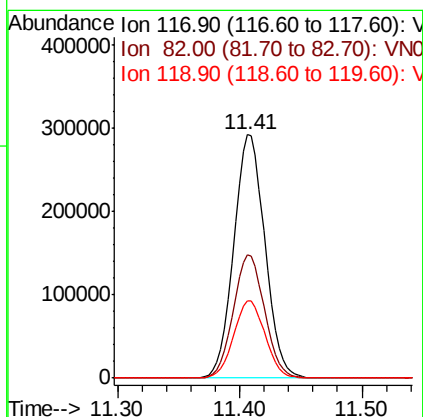
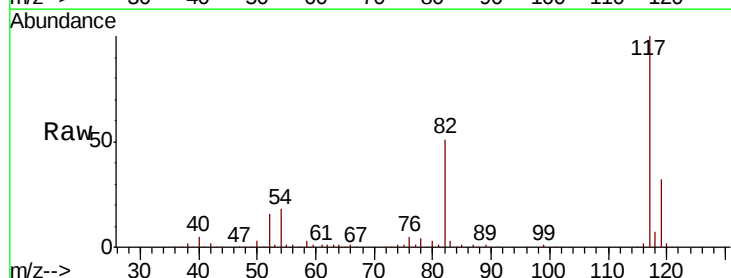
#62
4-Bromofluorobenzene
Concen: 43.309 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN055668.D
Acq: 20 May 2019 12:50

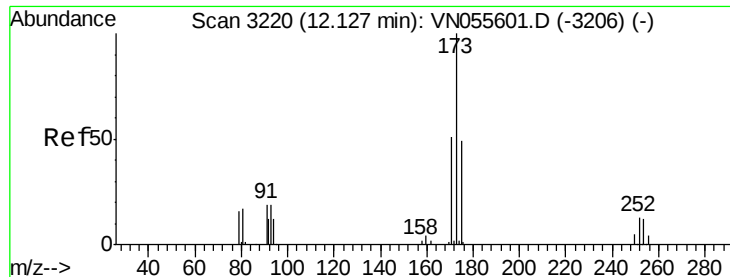
Tot Ion:	95	Resp:	219007
Ion	Ratio	Lower	Upper
95	100		
174	95.2	0.0	180.6
176	93.5	0.0	177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN055668.D
Acq: 20 May 2019 12:50

Tgt Ion:	117	Resp:	516429
Ion	Ratio	Lower	Upper
117	100		
82	50.8	42.3	63.5
119	32.0	25.4	38.2





#71

Bromoform

Concen: 0.411 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

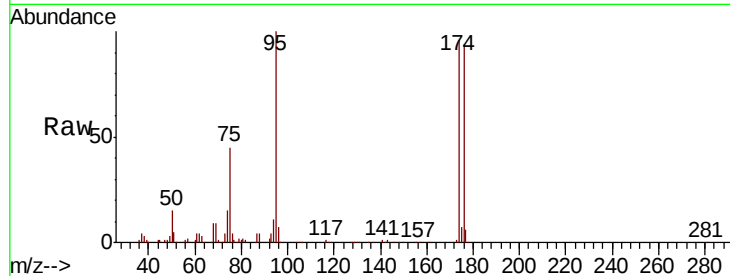
Tot Ion:173 Resp: 1465

Ion Ratio Lower Upper

173 100

175 929.6 24.3 72.9#

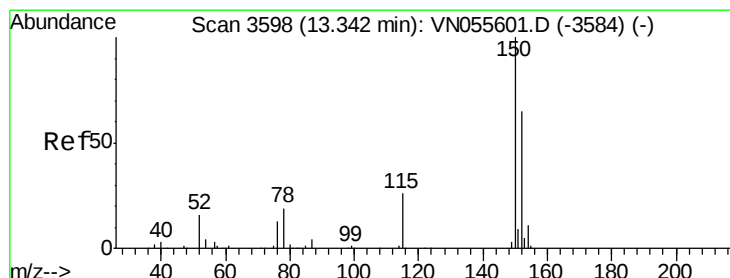
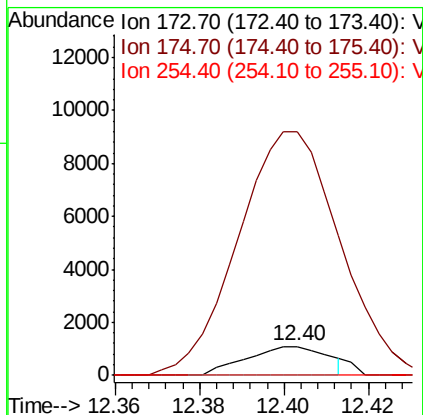
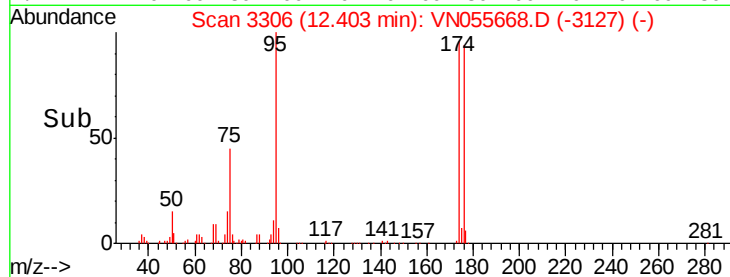
254 0.0 0.1 0.1#



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: VN055668.D

Acq: 20 May 2019 12:50

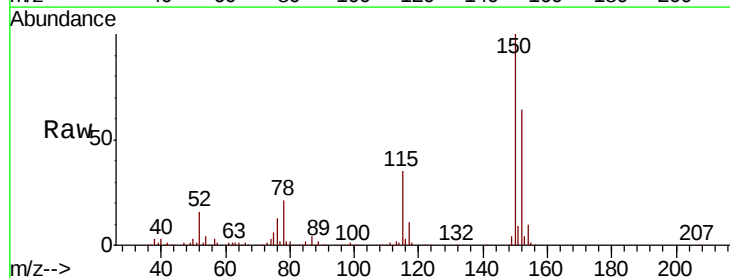
Tgt Ion:152 Resp: 188733

Ion Ratio Lower Upper

152 100

115 55.0 28.1 84.2

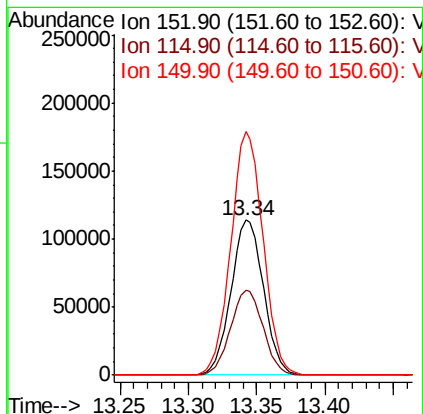
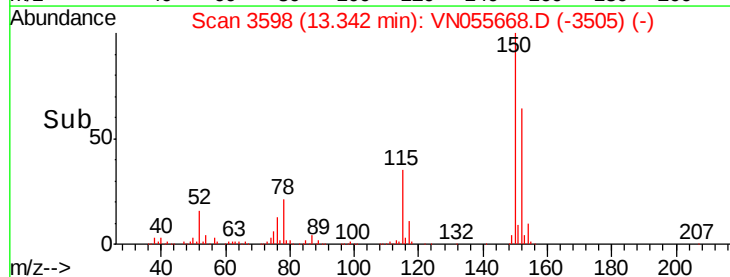
150 155.2 0.0 348.0

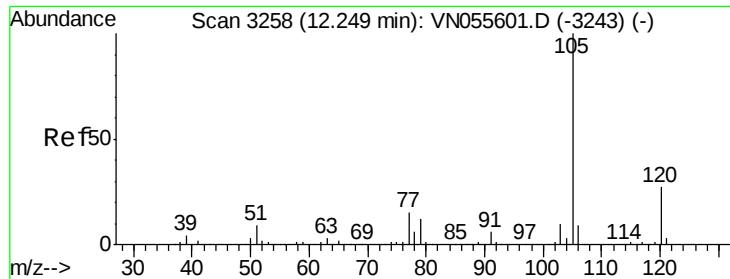


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN055668.D

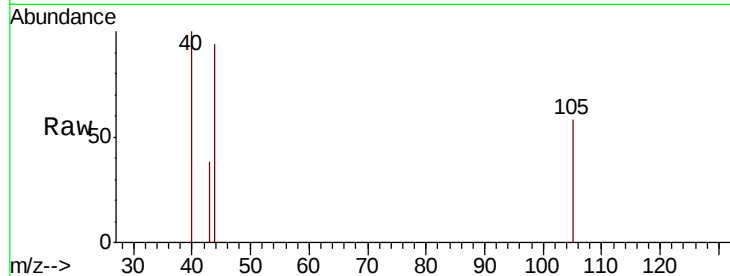
Acq: 20 May 2019 12:50

Tot Ion: 105 Resp: 272

Ion Ratio Lower Upper

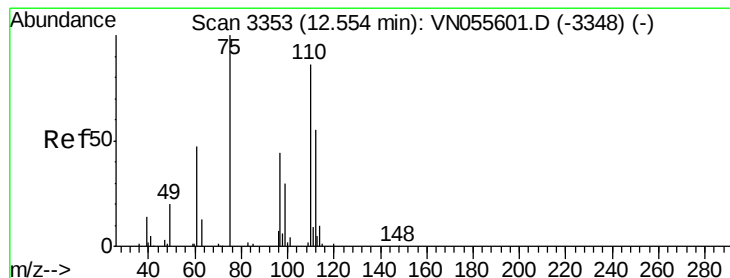
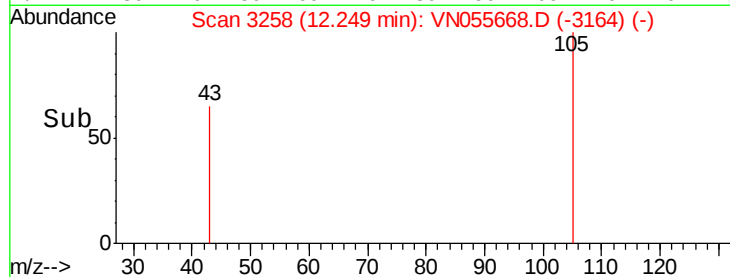
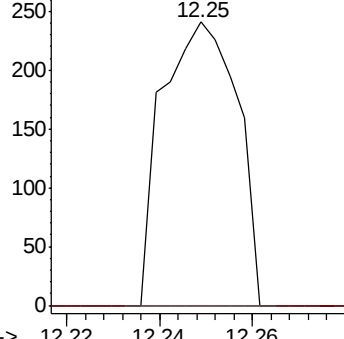
105 100

120 0.0 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: 25.582 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055668.D

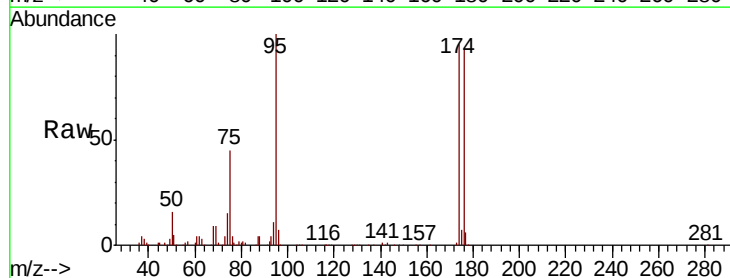
Acq: 20 May 2019 12:50

Tgt Ion: 75 Resp: 98521

Ion Ratio Lower Upper

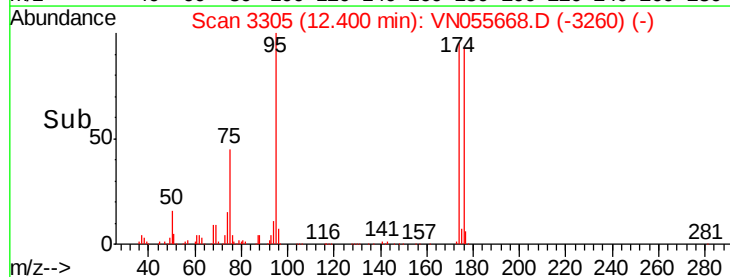
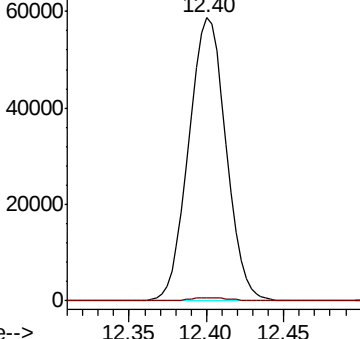
75 100

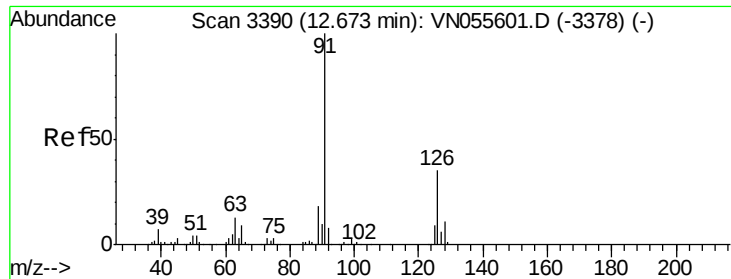
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

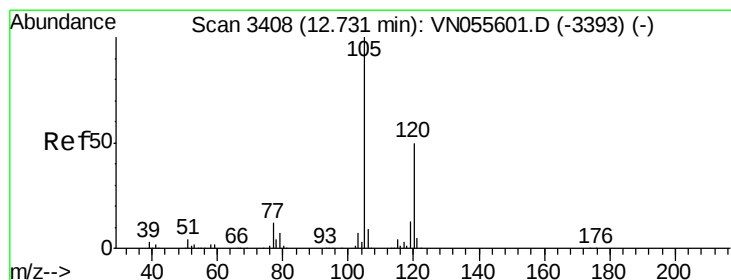
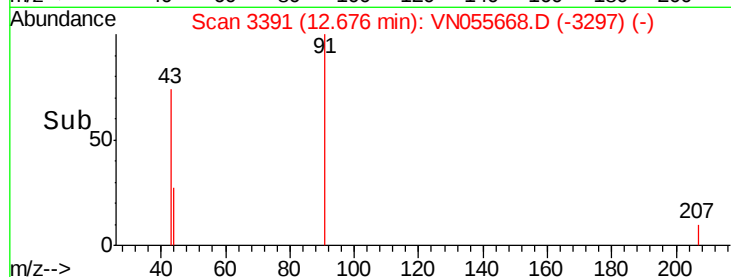
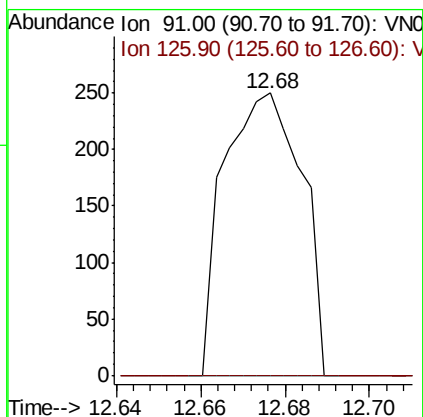
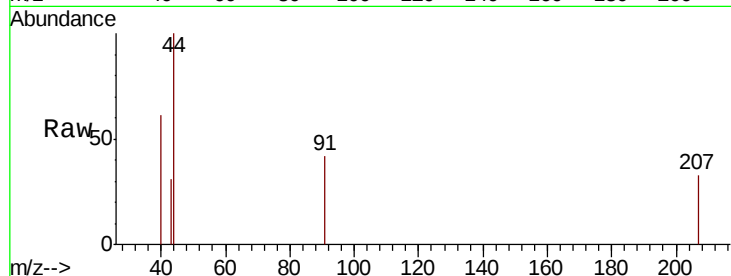
Ion 77.00 (76.70 to 77.70): V





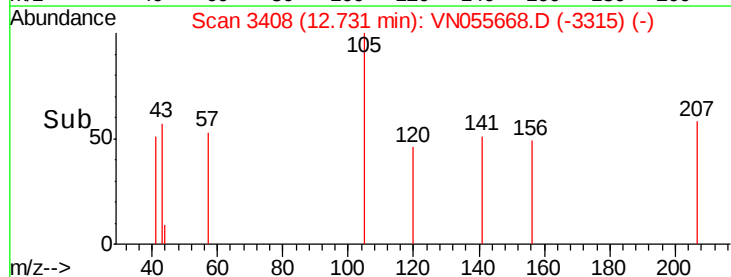
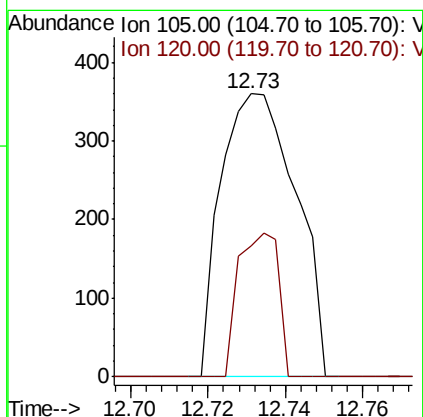
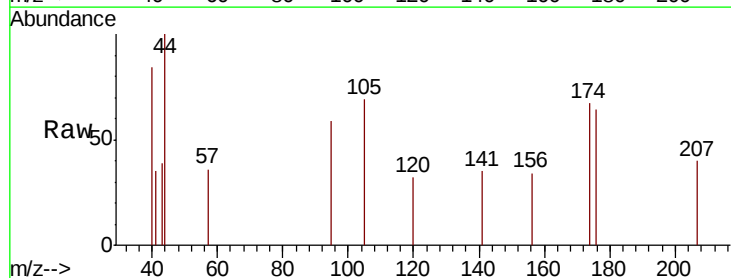
#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.68 min Scan# 3391
 Delta R.T. 0.00 min
 Lab File: VN055668.D
 Acq: 20 May 2019 12:50

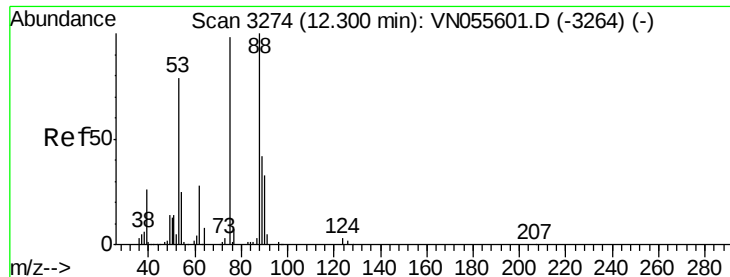
Tot Ion: 91 Resp: 320
 Ion Ratio Lower Upper
 91 100
 126 0.0 17.8 53.4#



#80
 1,3,5-Trimethylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN055668.D
 Acq: 20 May 2019 12:50

Tgt Ion: 105 Resp: 485
 Ion Ratio Lower Upper
 105 100
 120 27.0 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 65.762 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

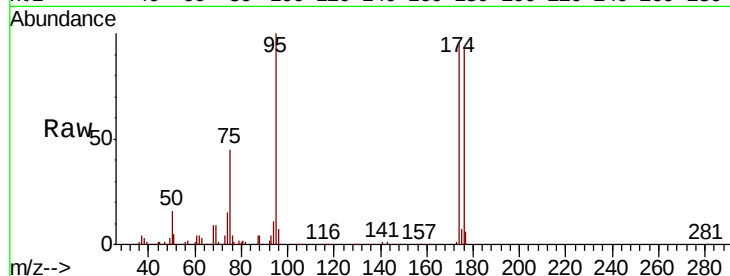
Tot Ion: 75 Resp: 98521

Ion Ratio Lower Upper

75 100

53 0.0 65.1 97.7#

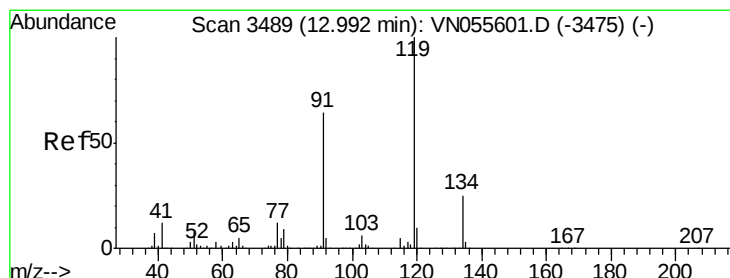
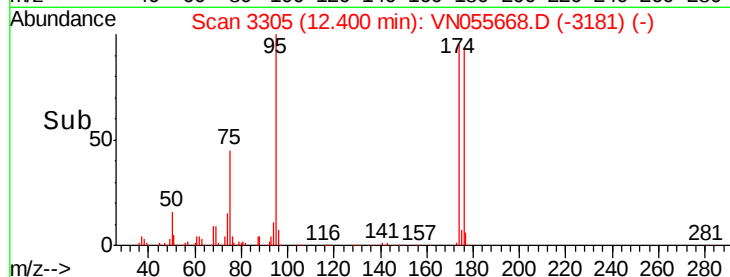
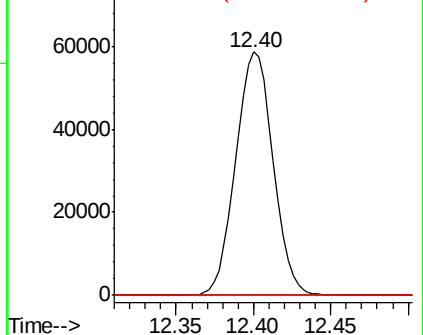
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN055668.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN055668.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN055668.D (-3305) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

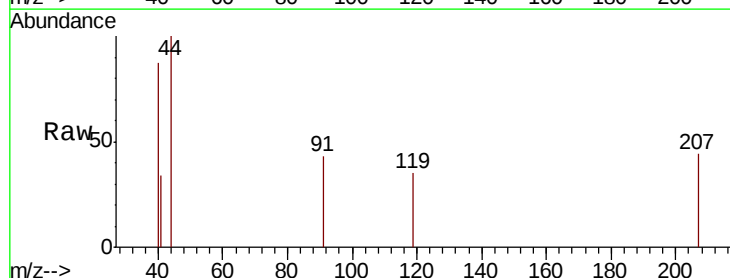
Tgt Ion: 119 Resp: 60

Ion Ratio Lower Upper

119 100

91 231.7 31.3 93.8#

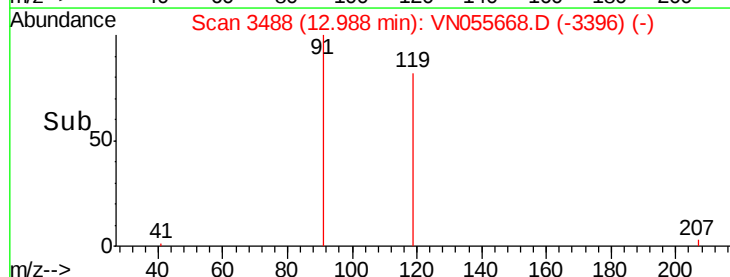
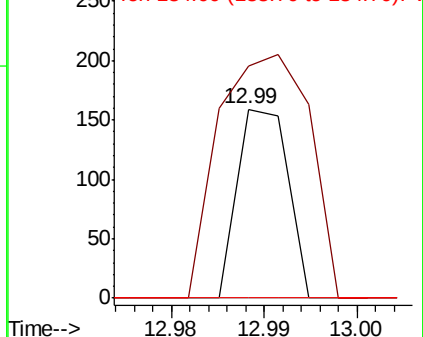
134 0.0 13.2 39.6#

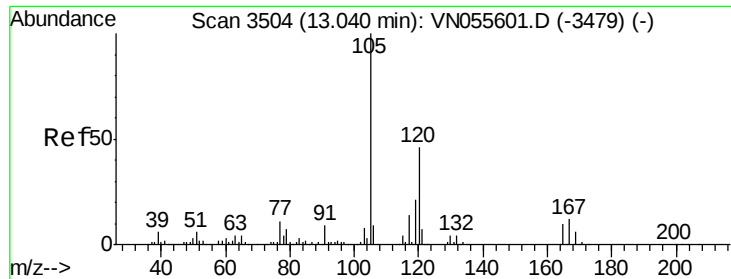


Abundance Ion 119.00 (118.70 to 119.70): VN055668.D (-3488) (-)

Ion 91.00 (90.70 to 91.70): VN055668.D (-3488) (-)

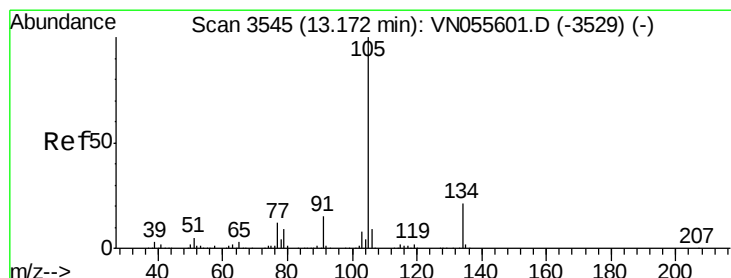
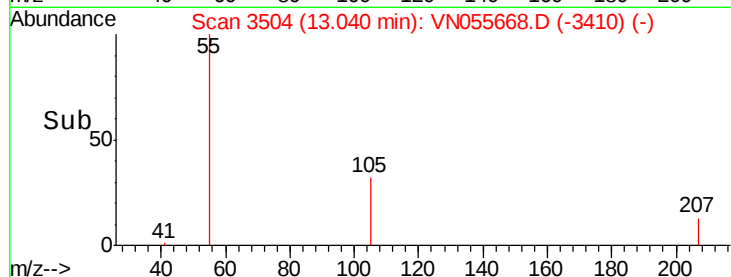
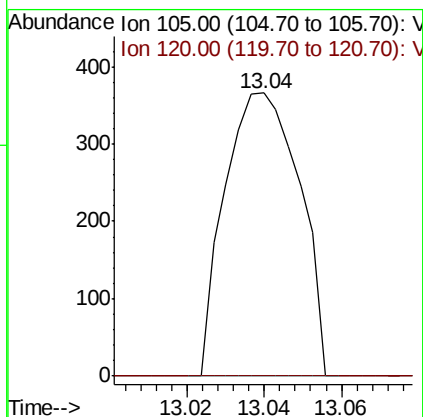
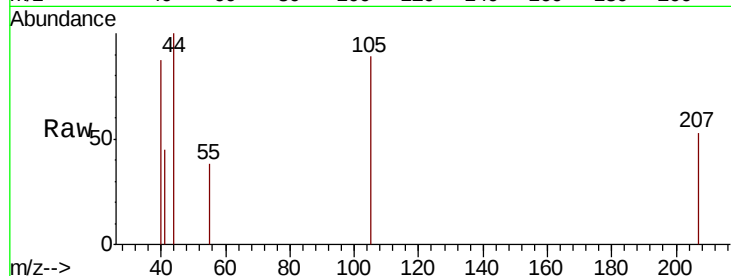
Ion 134.00 (133.70 to 134.70): VN055668.D (-3488) (-)





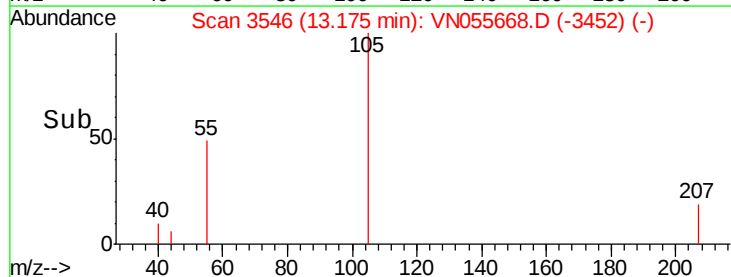
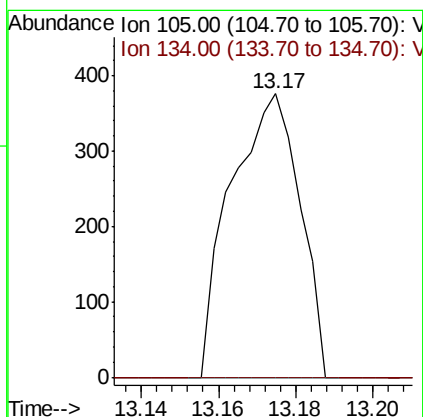
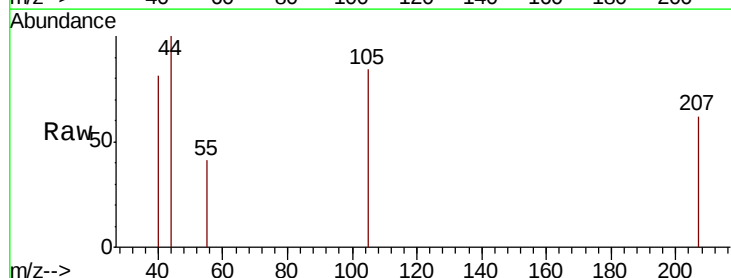
#84
 1,2,4-Trimethylbenzene
 Concen: Below Cal
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055668.D
 Acq: 20 May 2019 12:50

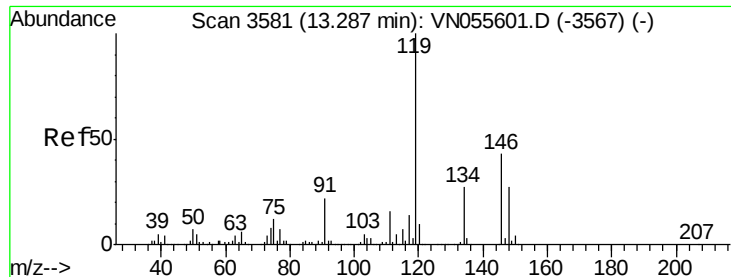
Tot Ion:105 Resp: 490
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.1 69.2#



#85
 sec-Butylbenzene
 Concen: Below Cal
 RT: 13.17 min Scan# 3546
 Delta R.T. 0.00 min
 Lab File: VN055668.D
 Acq: 20 May 2019 12:50

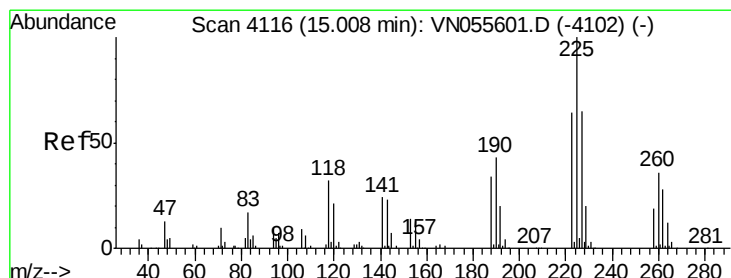
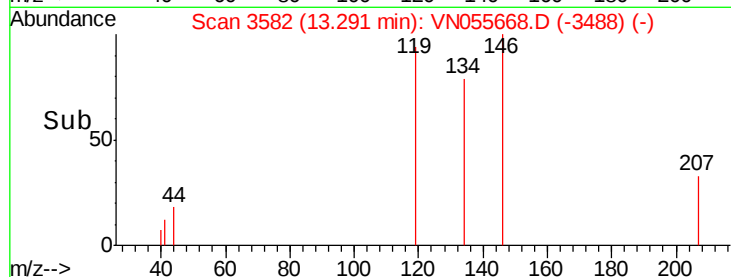
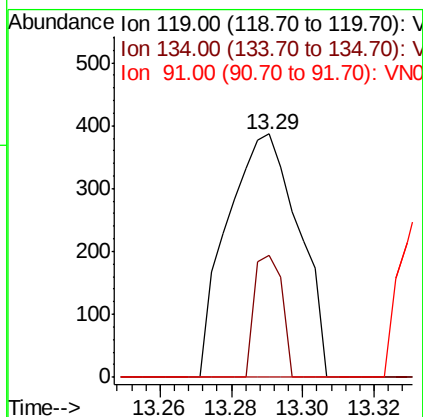
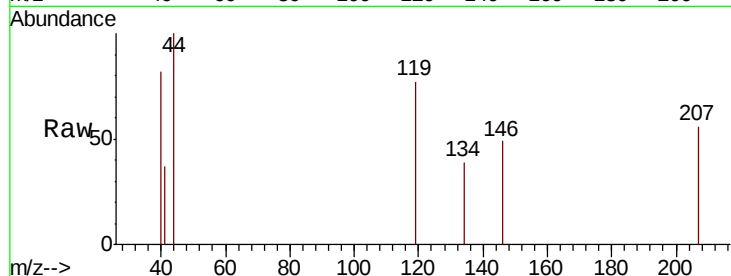
Tgt Ion:105 Resp: 465
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.3 30.9#





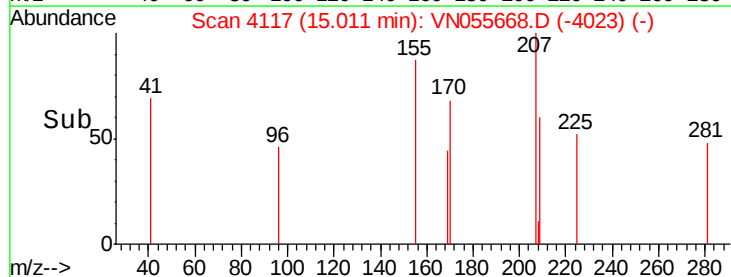
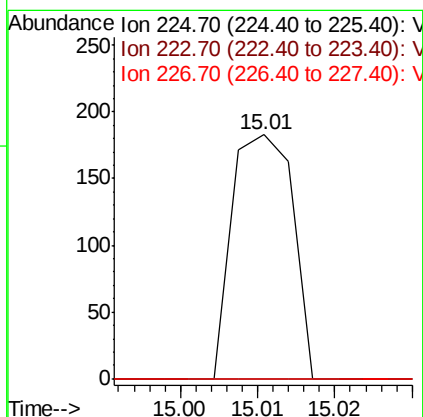
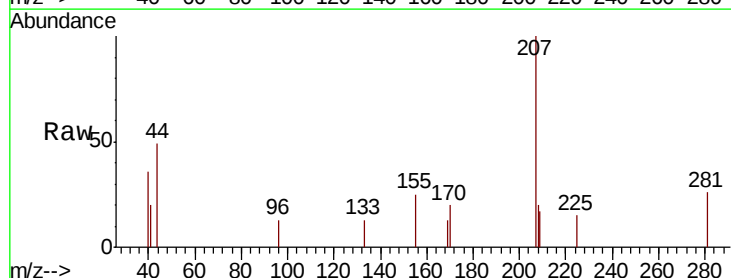
#86
p-Isopropyltoluene
Concen: Below Cal
RT: 13.29 min Scan# 3582
Delta R.T. 0.00 min
Lab File: VN055668.D
Acq: 20 May 2019 12:50

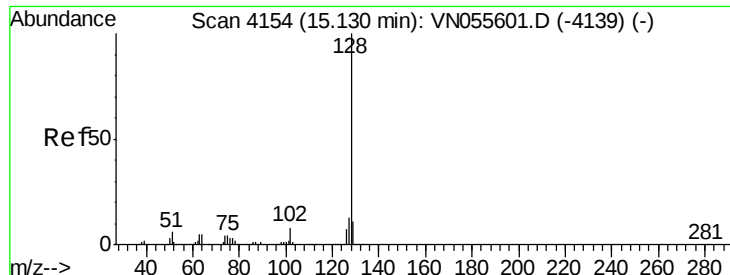
Tot Ion:119 Resp: 534
Ion Ratio Lower Upper
119 100
134 19.3 13.4 40.2
91 0.0 11.0 33.0#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.01 min Scan# 4117
Delta R.T. 0.00 min
Lab File: VN055668.D
Acq: 20 May 2019 12:50

Tgt Ion:225 Resp: 100
Ion Ratio Lower Upper
225 100
223 0.0 31.6 94.7#
227 0.0 32.4 97.0#





#95

Naphthalene

Concen: 1.941 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN055668.D

Acq: 20 May 2019 12:50

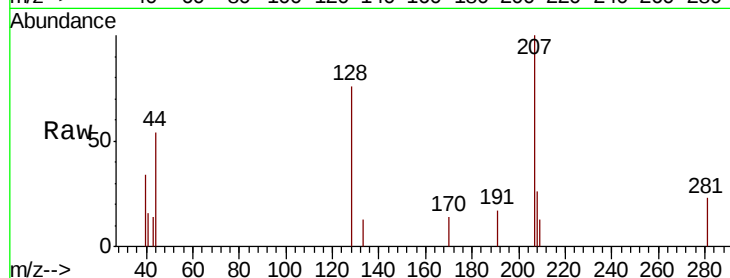
Tot Ion:128 Resp: 1797

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

