

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052127.D
 Acq On : 2 Nov 2018 14:22
 Operator : MD\SY
 Sample : PB114370ZHE#16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#16

Quant Time: Nov 02 23:13:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	282658	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	531925	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	503898	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	200248	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	242734	53.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.02%	
35) Dibromofluoromethane	7.60	113	197473	59.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.68%	
50) Toluene-d8	10.09	98	790621	59.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.88%	
62) 4-Bromofluorobenzene	12.40	95	268961	55.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.18%	

Target Compounds

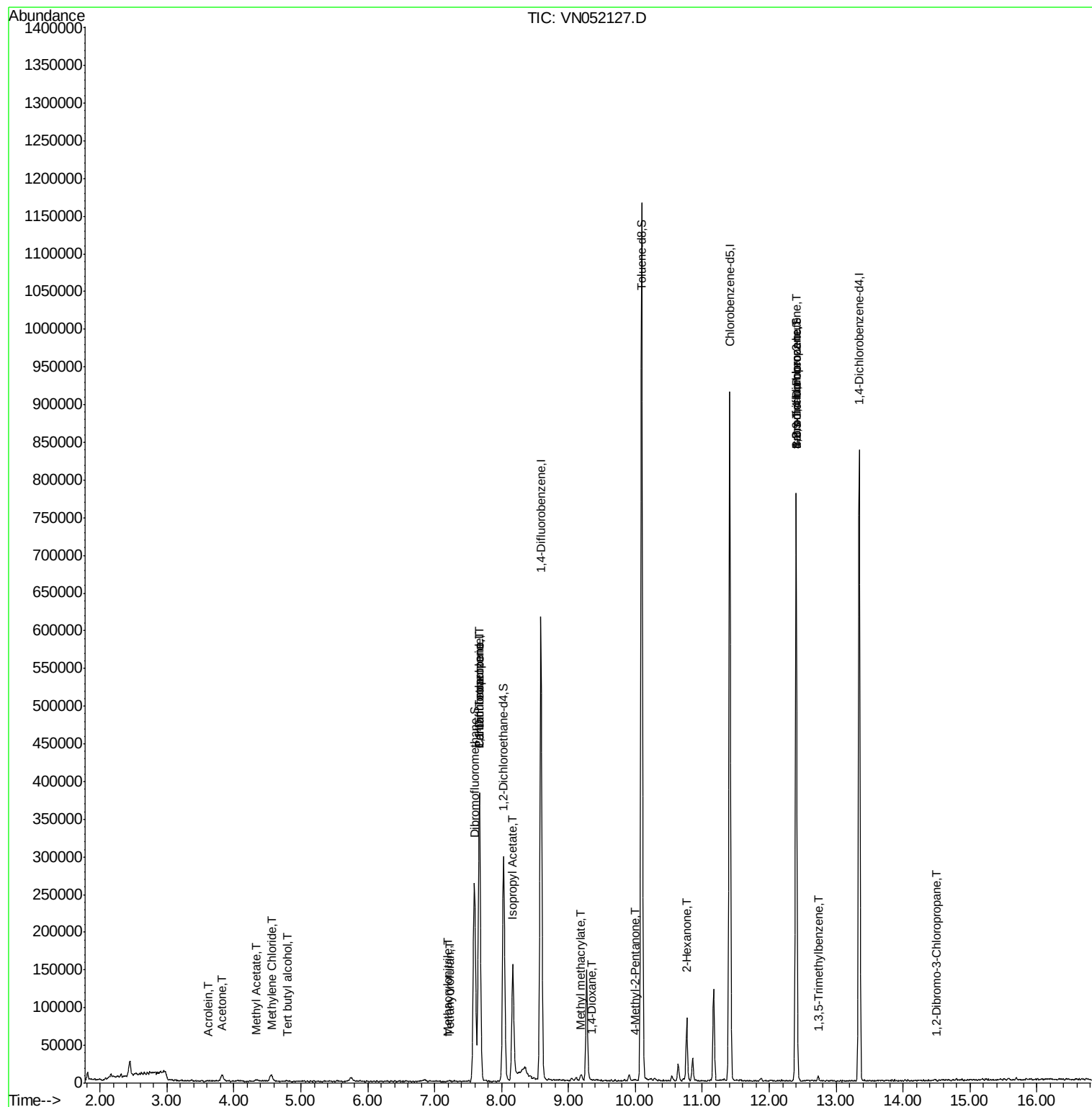
					Qvalue	
11) Tert butyl alcohol	4.81	59	72	0.317	ug/l #	76
13) Acrolein	3.61	56	65	24.295	ug/l #	1
16) Acetone	3.82	43	14819	15.306	ug/l	99
18) Methyl Acetate	4.33	43	3117	1.011	ug/l	100
20) Methylene Chloride	4.56	84	4744	1.286	ug/l	95
29) Tetrahydrofuran	7.21	42	460	0.455	ug/l #	28
31) Cyclohexane	7.66	56	8327	Below Cal	#	30
36) 1,1-Dichloropropene	7.67	75	25268	4.672	ug/l #	50
38) Carbon Tetrachloride	7.67	117	31704	6.798	ug/l #	16
41) Methacrylonitrile	7.18	41	337	0.322	ug/l #	1
43) Isopropyl Acetate	8.17	43	189484	29.428	ug/l	99
48) Methyl methacrylate	9.18	41	5104	1.563	ug/l #	15
49) 1,4-Dioxane	9.34	88	29	26.094	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	1666	0.476	ug/l #	38
59) 2-Hexanone	10.77	43	11496	4.610	ug/l #	55
71) Bromoform	12.40	173	3115	3.569	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	142978	39.005	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2820	0.202	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	142978	129.464	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.52	75	31	0.970	ug/l #	11

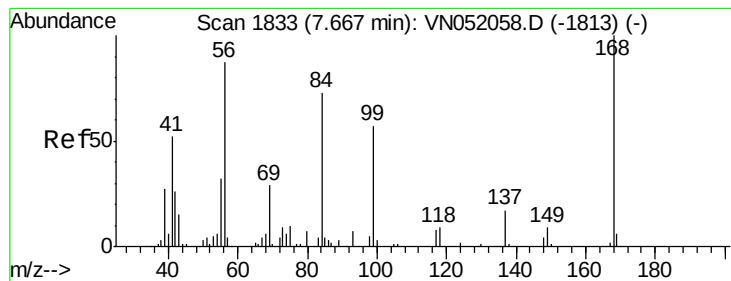
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

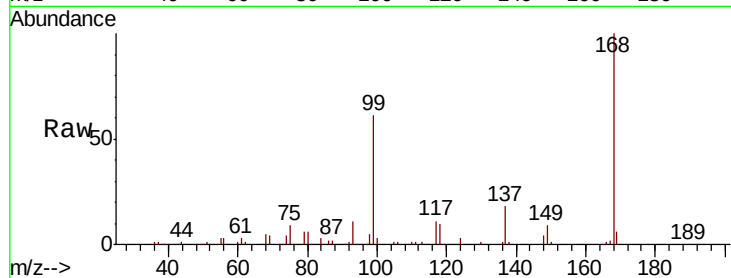
PB114370ZHE#16

Tot Ion:168 Resp: 282658

Ion Ratio Lower Upper

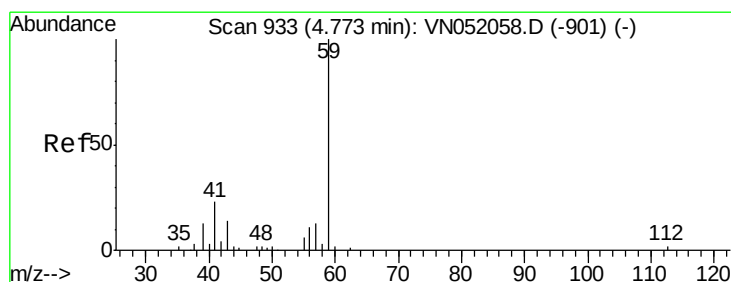
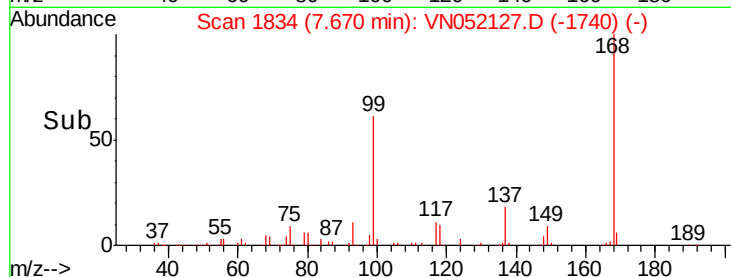
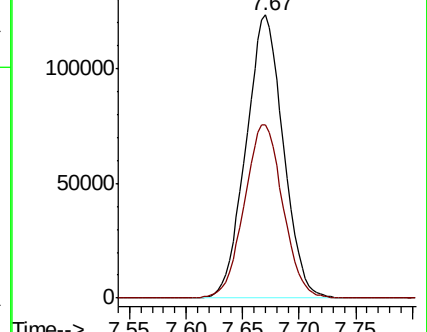
168 100

99 61.2 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052127.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052127.D (-1740) (-)



#11

Tert butyl alcohol

Concen: 0.317 ug/l

RT: 4.81 min Scan# 944

Delta R.T. 0.04 min

Lab File: VN052127.D

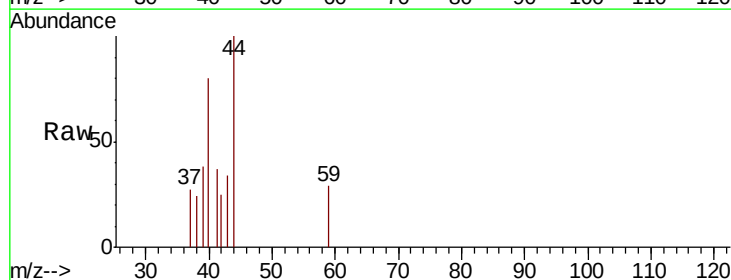
Acq: 2 Nov 2018 14:22

Tgt Ion: 59 Resp: 72

Ion Ratio Lower Upper

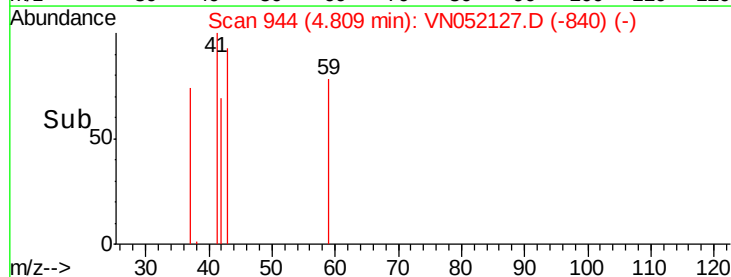
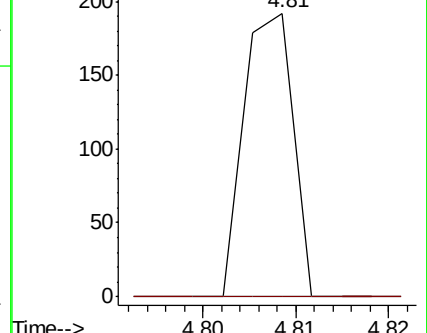
59 100

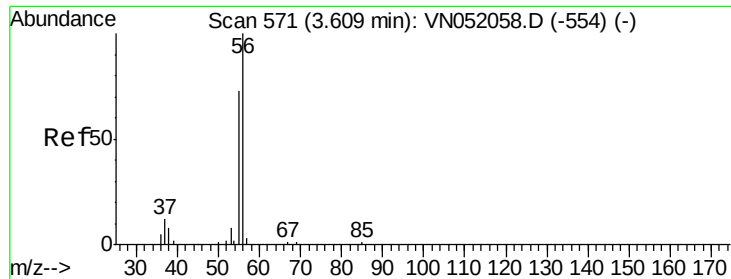
57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN052127.D (-840) (-)

Ion 57.00 (56.70 to 57.70): VN052127.D (-840) (-)





#13

Acrolein

Concen: 24.295 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

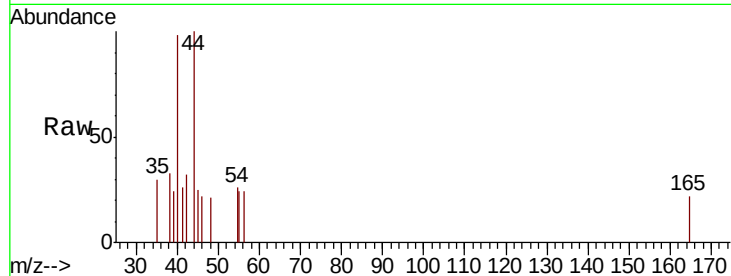
PB114370ZHE#16

Tot Ion: 56 Resp: 65

Ion Ratio Lower Upper

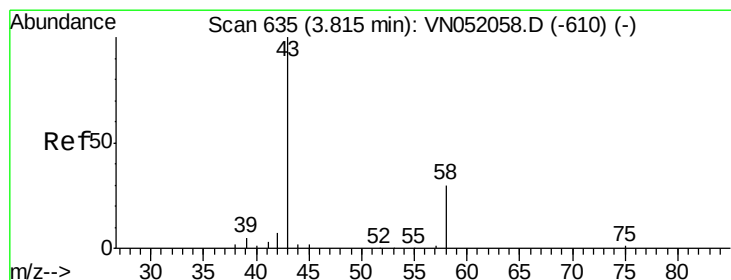
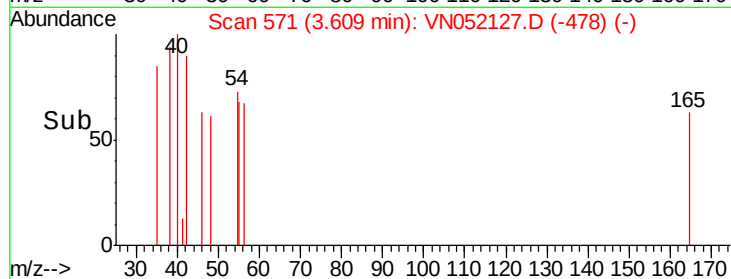
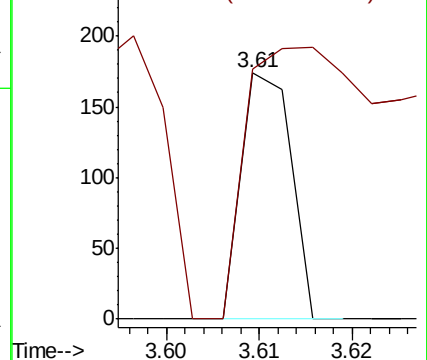
56 100

55 263.1 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 15.306 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052127.D

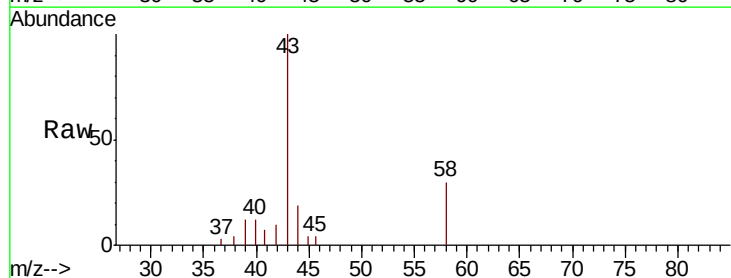
Acq: 2 Nov 2018 14:22

Tgt Ion: 43 Resp: 14819

Ion Ratio Lower Upper

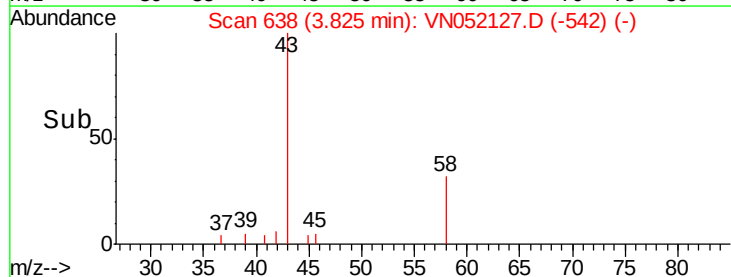
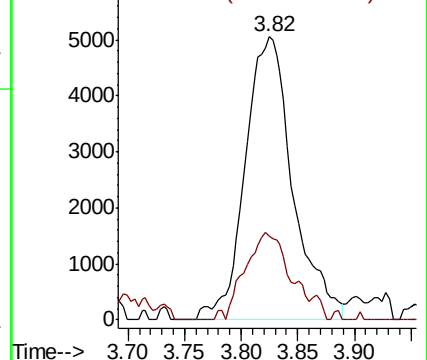
43 100

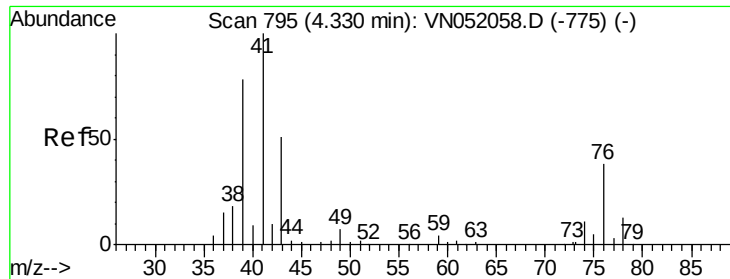
58 29.8 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

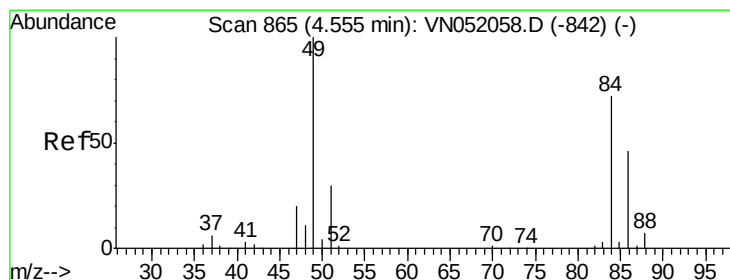
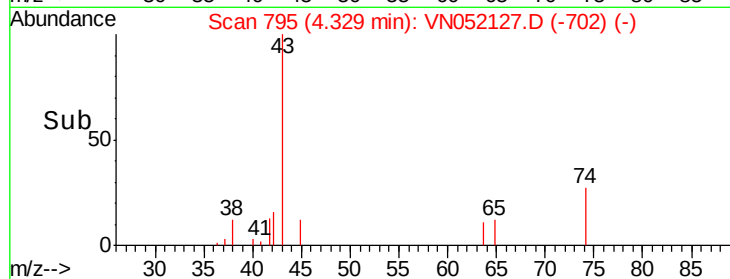
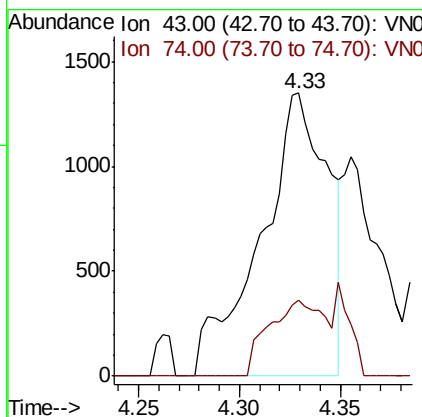
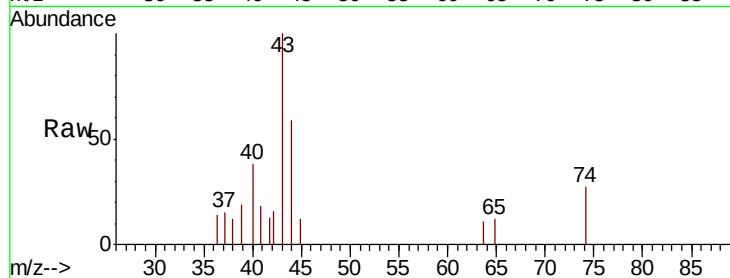




#18
Methvl Acetate
Concen: 1.011 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN052127.D
Acq: 2 Nov 2018 14:22

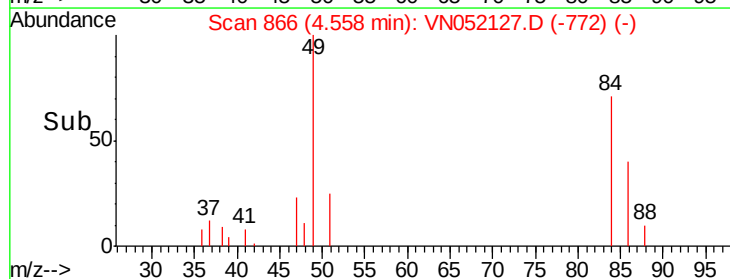
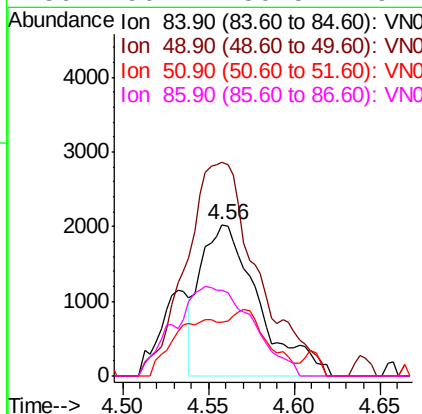
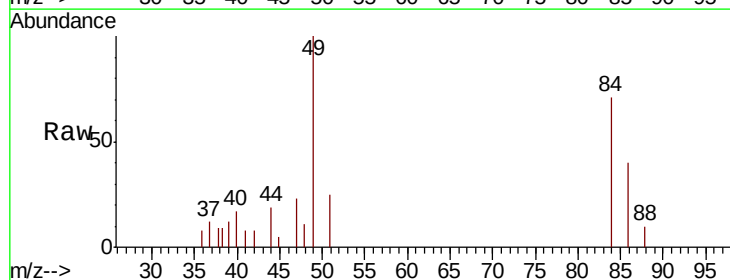
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#16

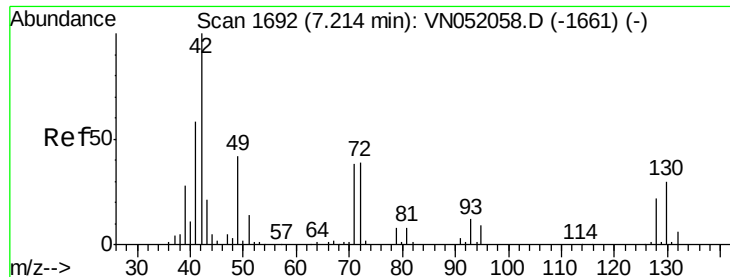
Tot Ion: 43 Resp: 3117
Ion Ratio Lower Upper
43 100
74 22.2 17.9 26.9



#20
Methylene Chloride
Concen: 1.286 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052127.D
Acq: 2 Nov 2018 14:22

Tgt Ion: 84 Resp: 4744
Ion Ratio Lower Upper
84 100
49 141.3 110.6 165.8
51 35.3 33.7 50.5
86 56.7 50.5 75.7





#29

Tetrahydrofuran

Concen: 0.455 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#16

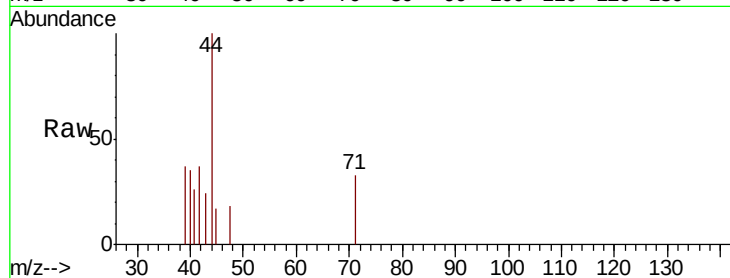
Tot Ion: 42 Resp: 460

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

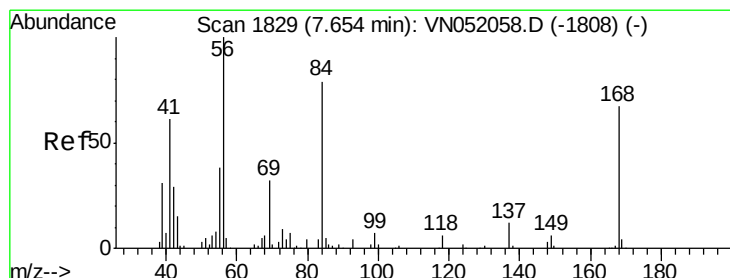
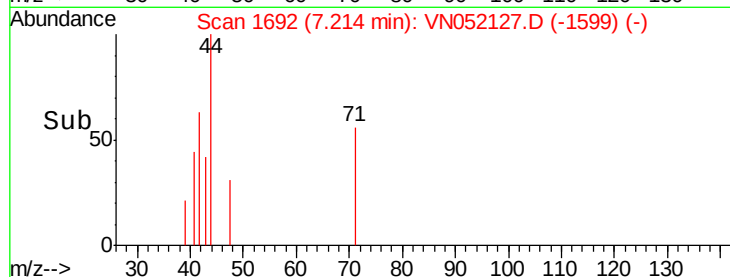
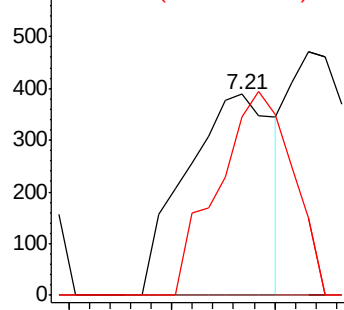
71 85.9 30.6 46.0#



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: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

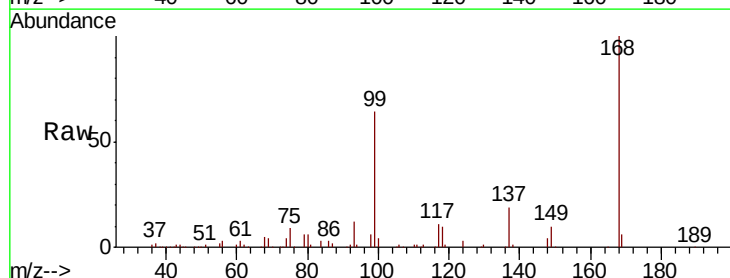
Tgt Ion: 56 Resp: 8327

Ion Ratio Lower Upper

56 100

69 124.7 25.8 38.6#

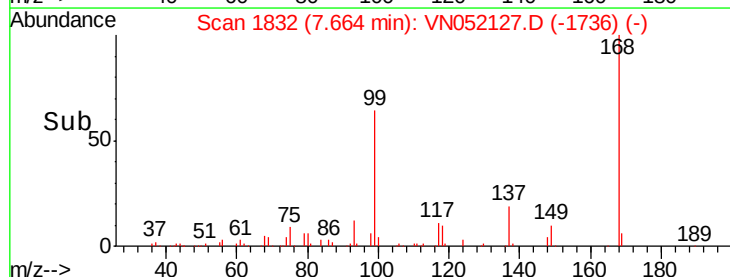
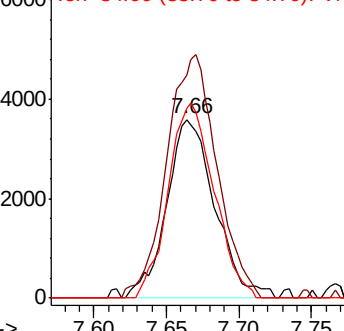
84 106.3 63.5 95.3#

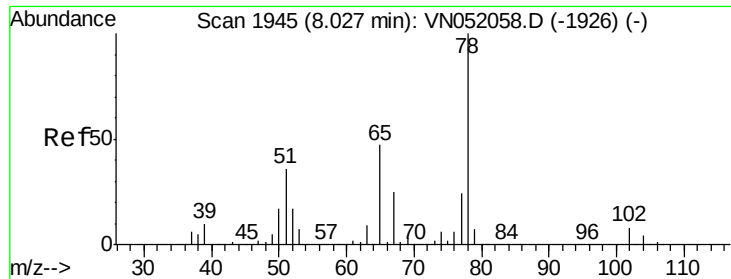


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

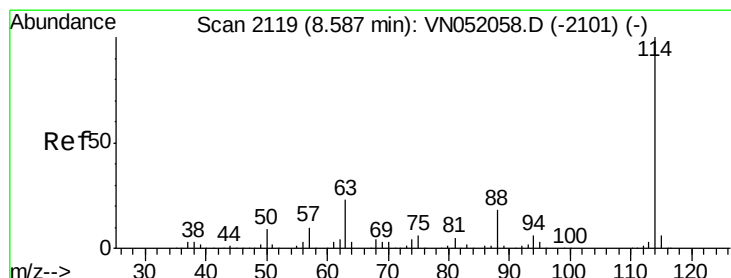
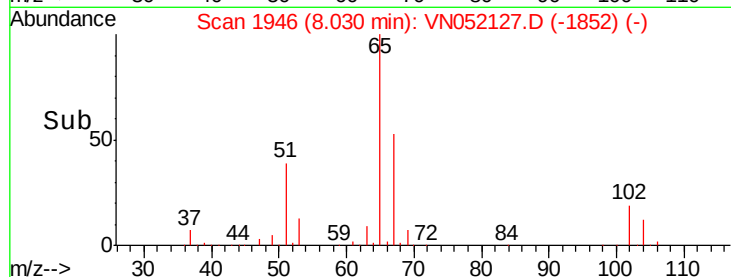
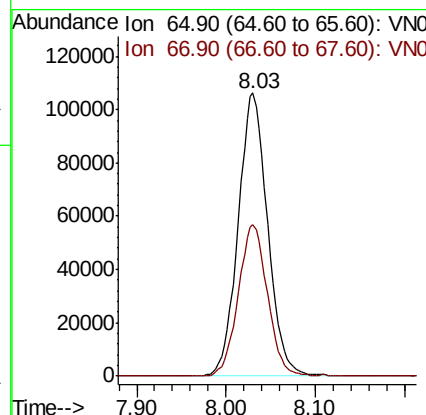
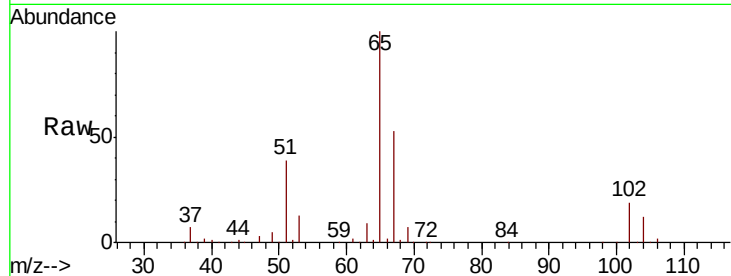




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052127.D
 Acq: 2 Nov 2018 14:22

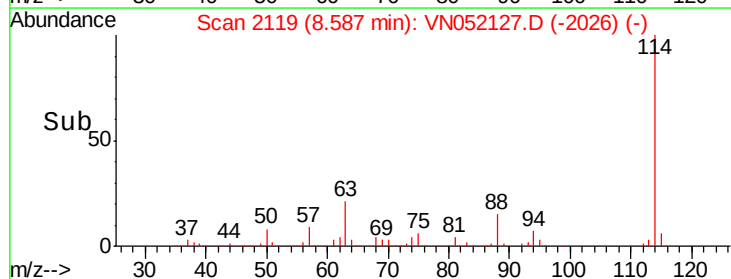
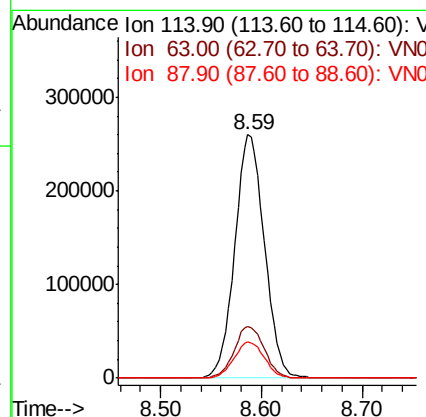
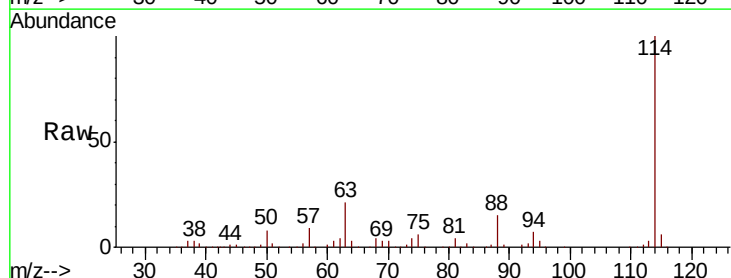
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#16

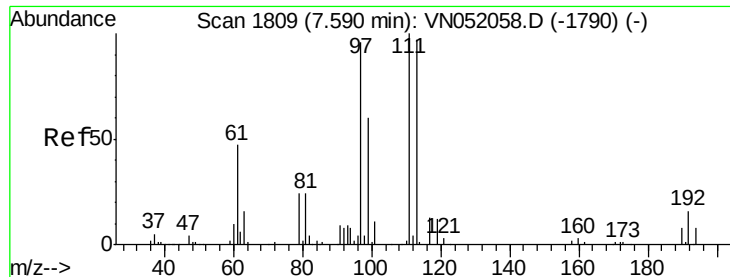
Tot Ion: 65 Resp: 242734
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052127.D
 Acq: 2 Nov 2018 14:22

Tgt Ion: 114 Resp: 531925
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 46.0
 88 15.1 0.0 35.4





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.60 min Scan# 1811

Delta R.T. 0.01 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#16

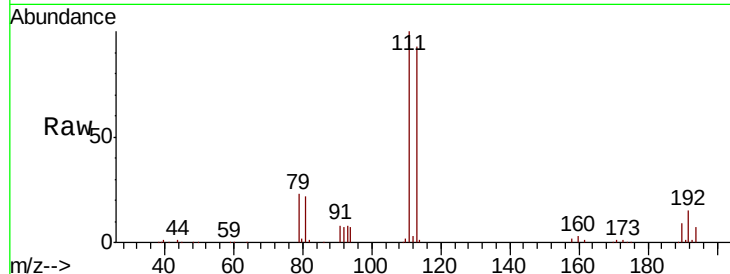
Tot Ion:113 Resp: 197473

Ion Ratio Lower Upper

113 100

111 105.0 83.1 124.7

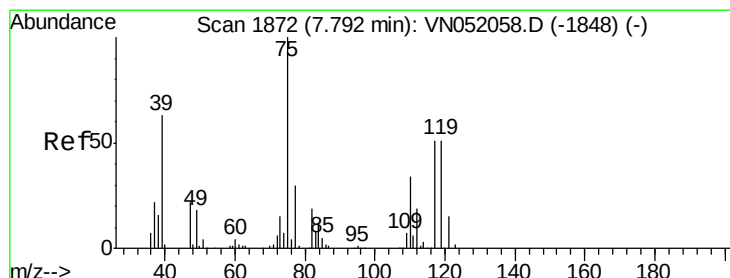
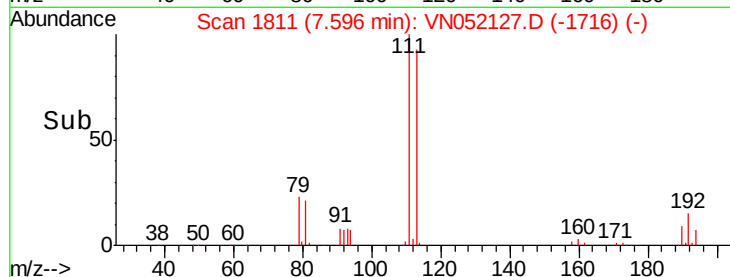
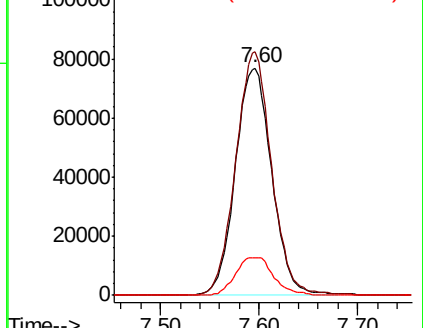
192 17.3 12.7 19.1



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: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

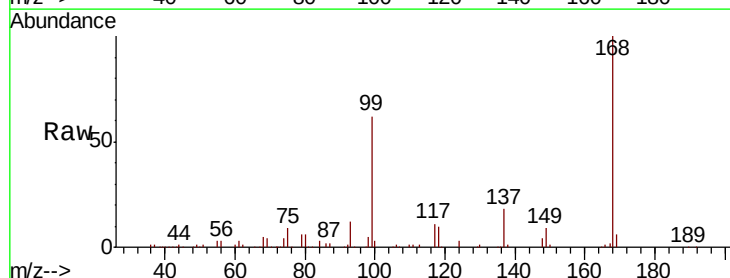
Tgt Ion: 75 Resp: 25268

Ion Ratio Lower Upper

75 100

110 7.2 16.0 48.0#

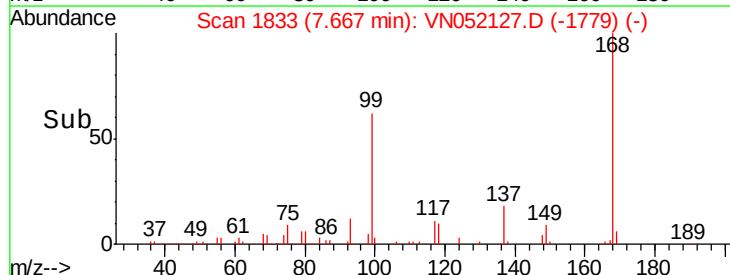
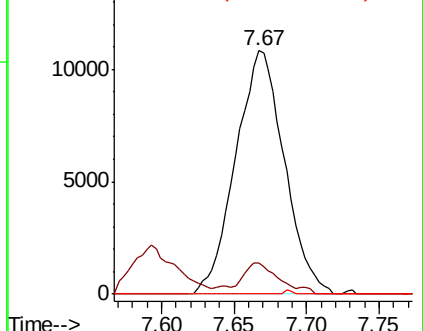
77 0.0 24.5 36.7#

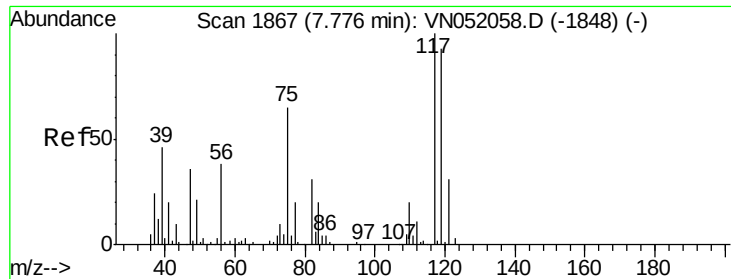


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 6.798 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#16

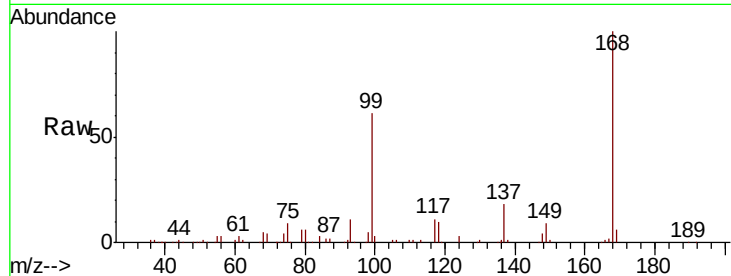
Tot Ion:117 Resp: 31704

Ion Ratio Lower Upper

117 100

119 3.9 74.8 112.2#

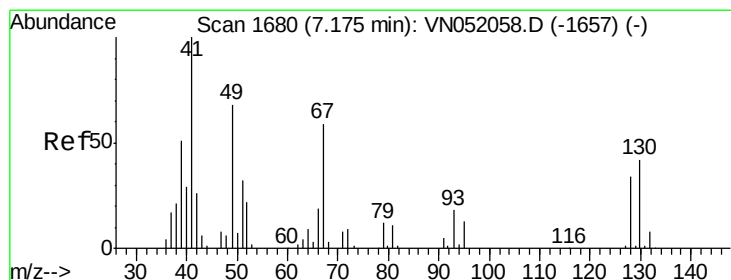
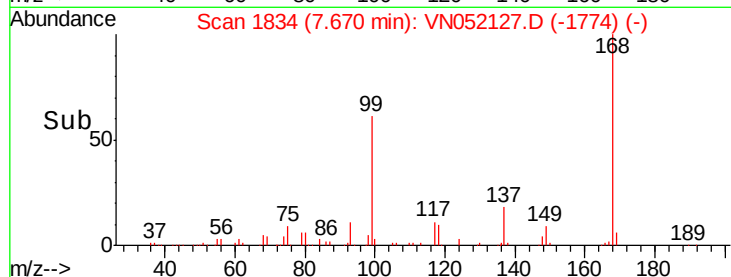
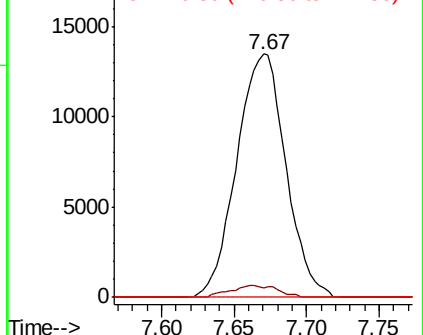
121 0.0 25.1 37.7#



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: 0.322 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. 0.01 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Tgt Ion: 41 Resp: 337

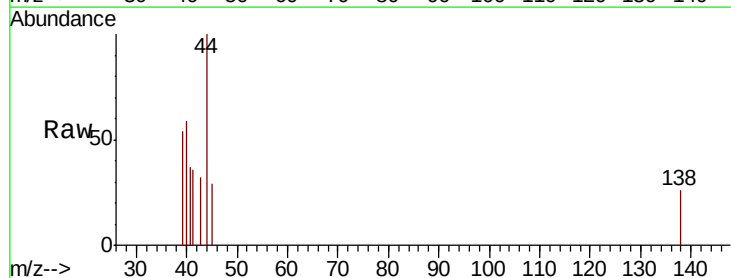
Ion Ratio Lower Upper

41 100

39 148.4 33.2 49.8#

67 0.0 63.5 95.3#

52 0.0 25.6 38.4#

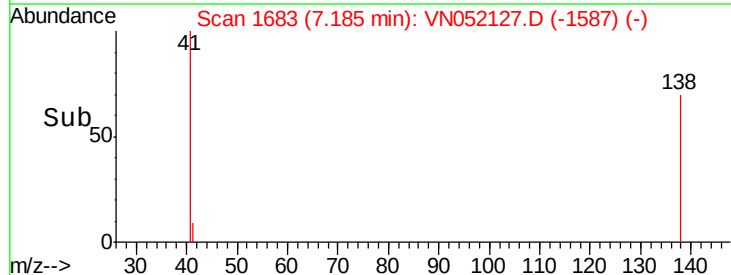
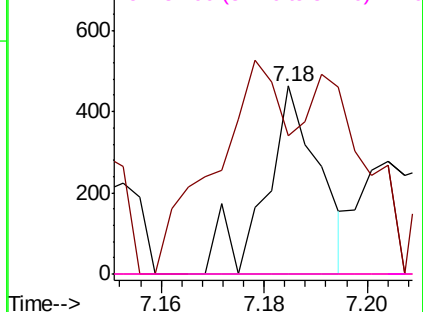


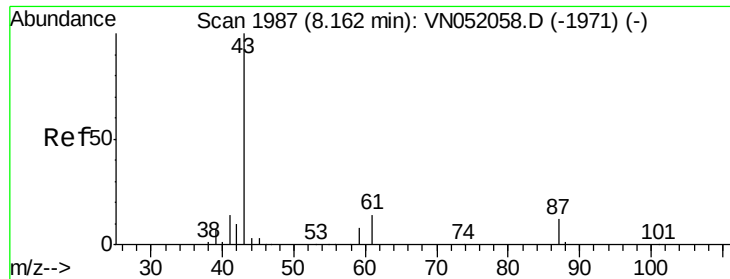
Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#43

Isopropyl Acetate

Concen: 29.428 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#16

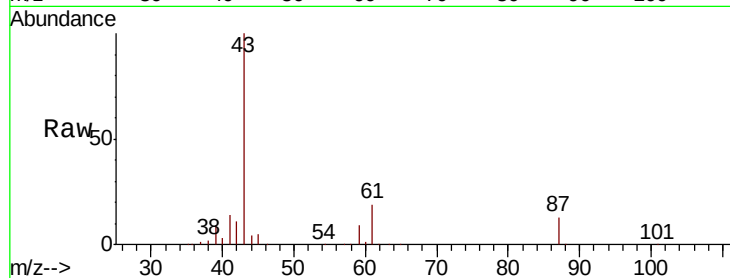
Tot Ion: 43 Resp: 189484

Ion Ratio Lower Upper

43 100

61 18.7 15.4 23.0

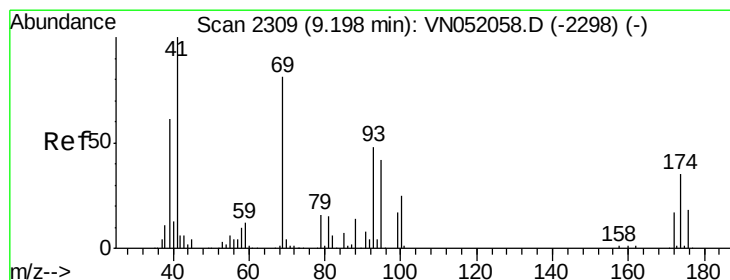
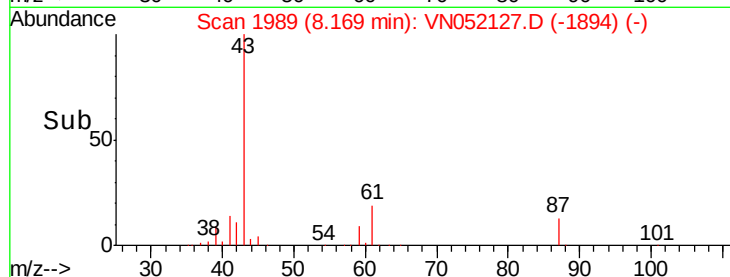
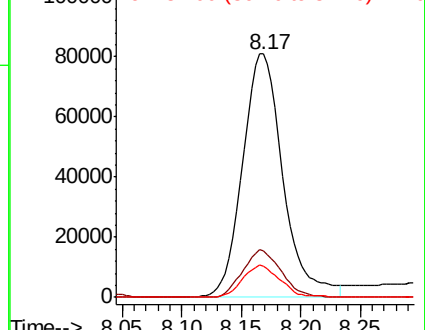
87 12.4 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 1.563 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

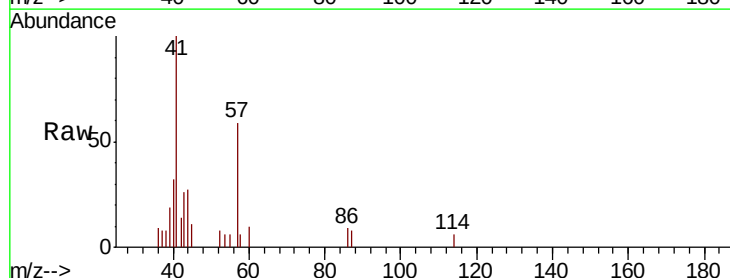
Tgt Ion: 41 Resp: 5104

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

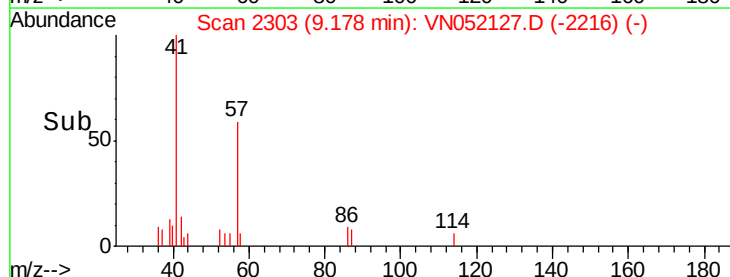
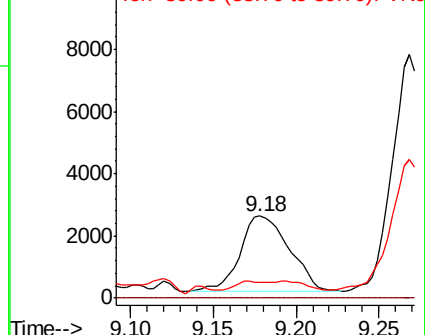
39 5.6 50.5 75.7#

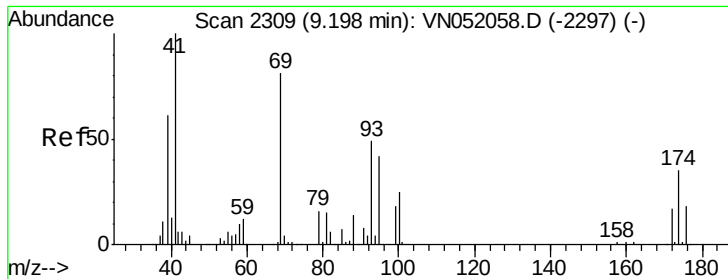


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

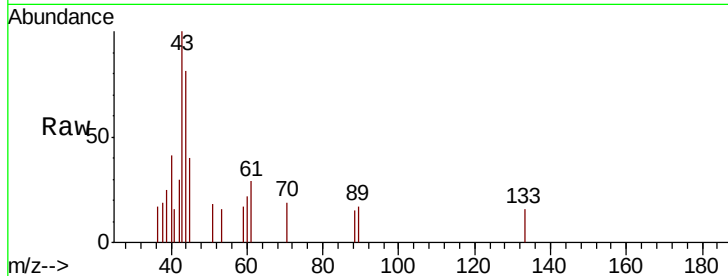




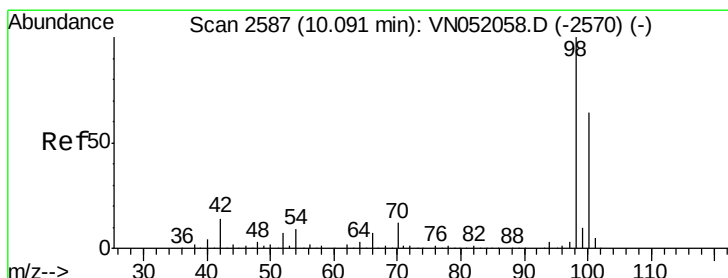
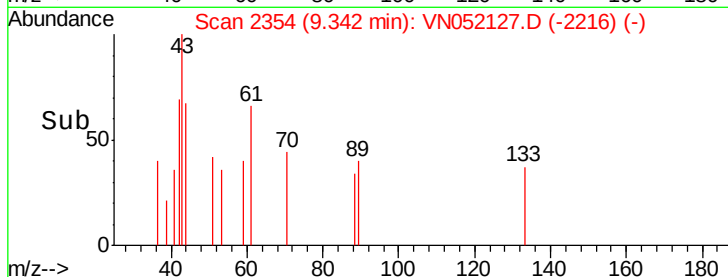
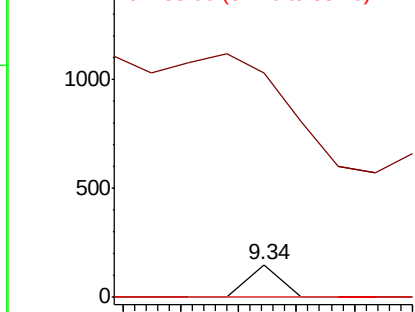
#49
1,4-Dioxane
Concen: 26.094 ug/l
RT: 9.34 min Scan# 2354
Delta R.T. 0.15 min
Lab File: VN052127.D
Acq: 2 Nov 2018 14:22

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#16

Tot Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 0.0 62.8 94.2#

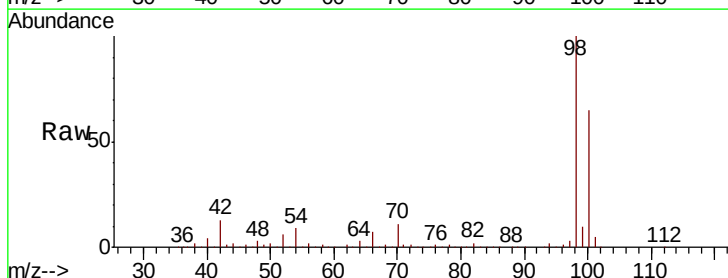


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

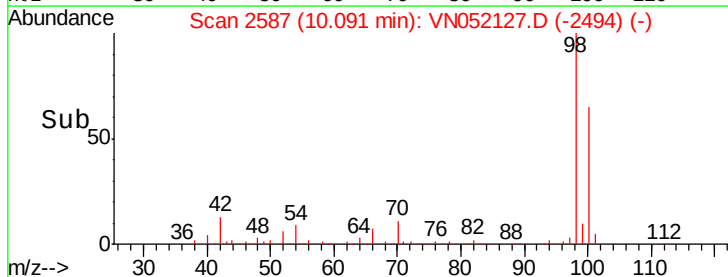
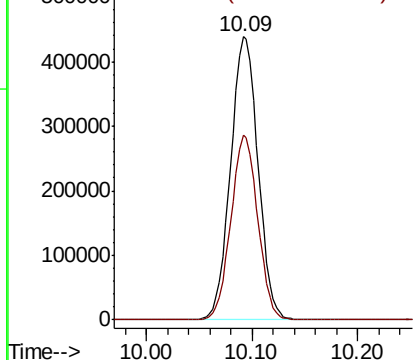


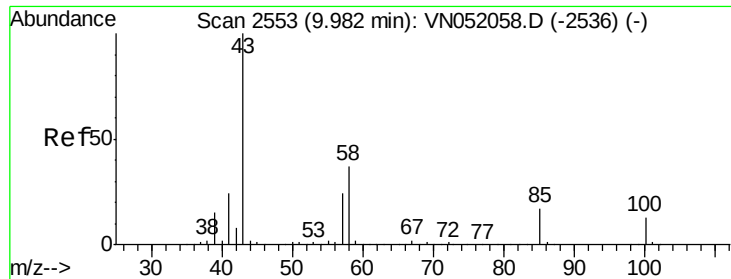
#50
Toluene-d8
Concen: 26.094 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052127.D
Acq: 2 Nov 2018 14:22

Tgt Ion: 98 Resp: 790621
Ion Ratio Lower Upper
98 100
100 63.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.476 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

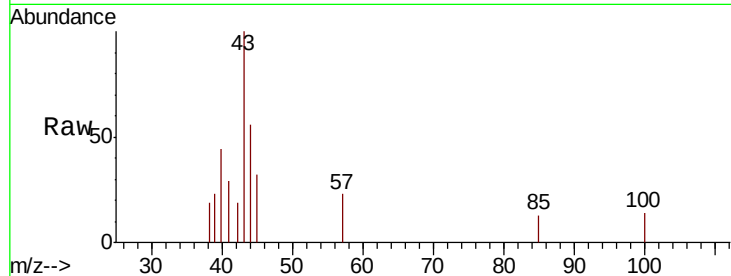
PB114370ZHE#16

Tot Ion: 43 Resp: 1666

Ion Ratio Lower Upper

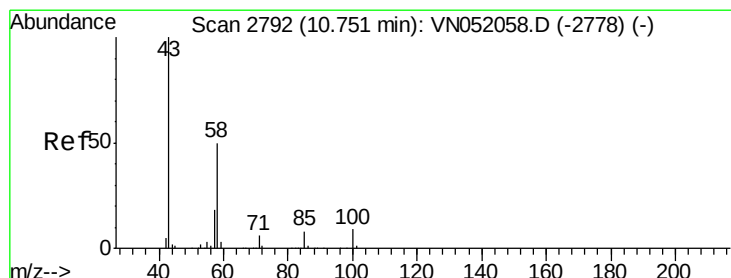
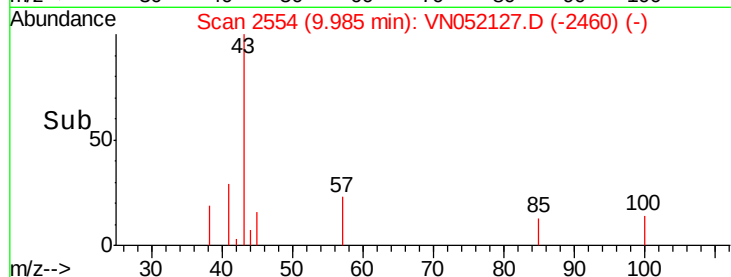
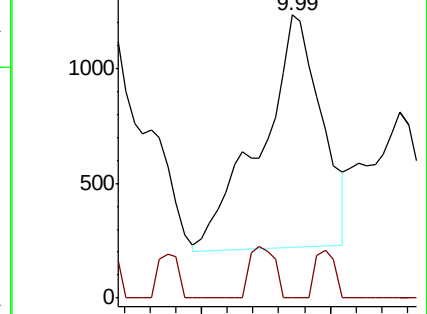
43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 4.610 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052127.D

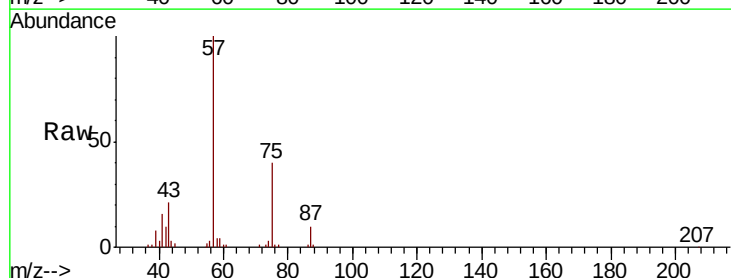
Acq: 2 Nov 2018 14:22

Tgt Ion: 43 Resp: 11496

Ion Ratio Lower Upper

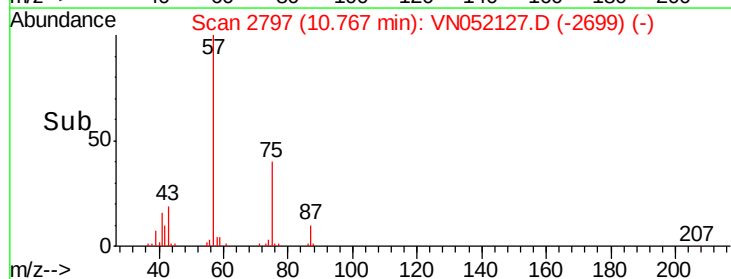
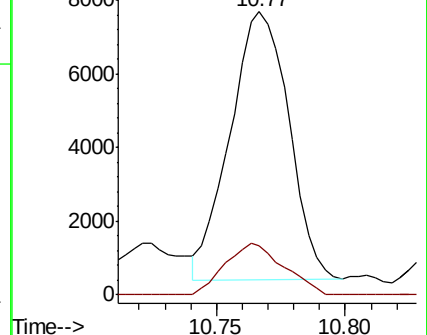
43 100

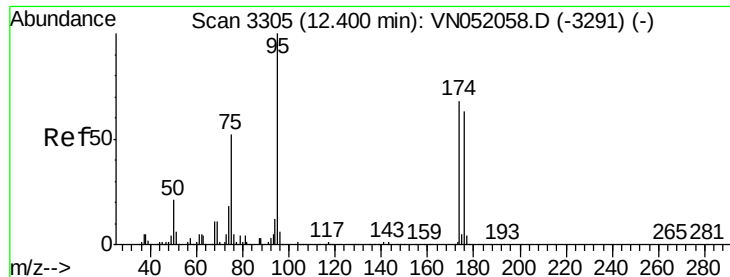
58 19.3 25.2 75.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

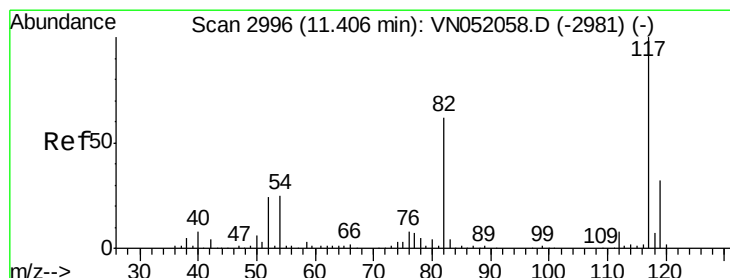
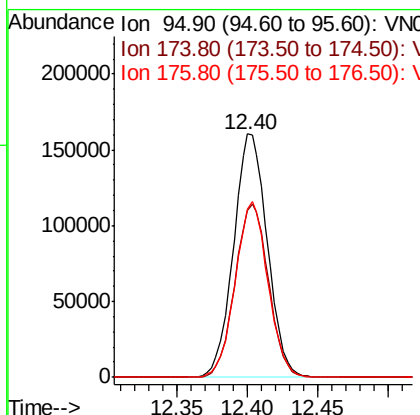
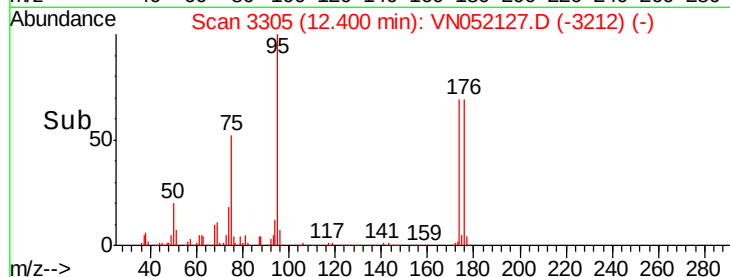
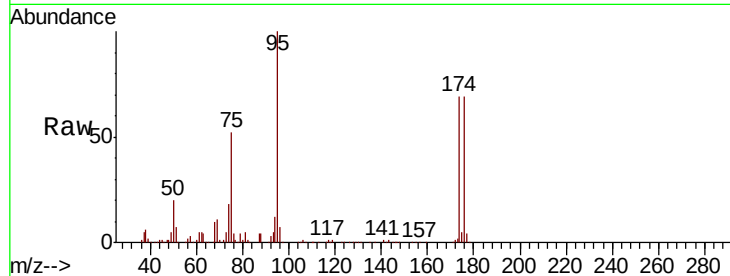




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052127.D
Acq: 2 Nov 2018 14:22

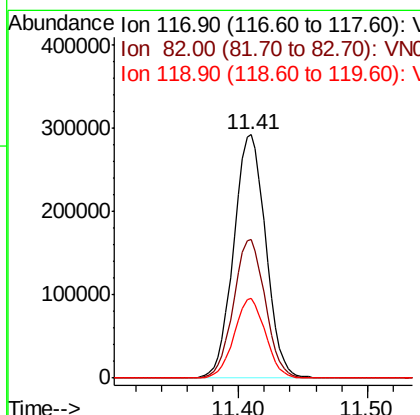
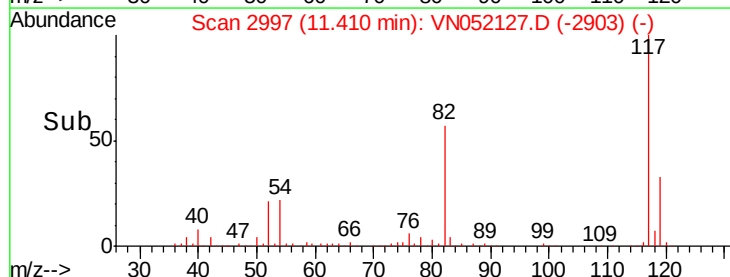
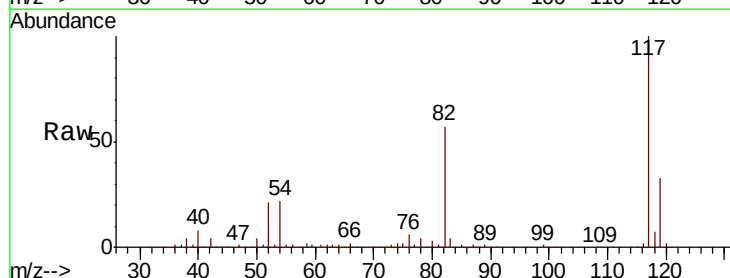
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#16

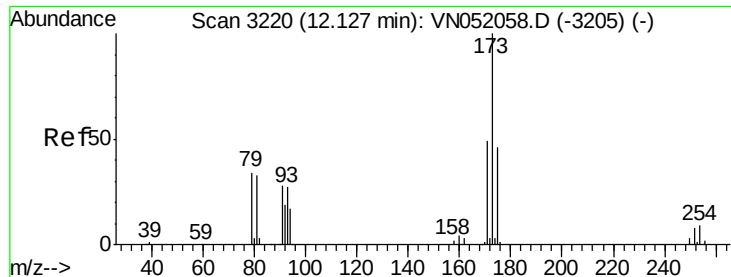
Tot Ion: 95 Resp: 268961
Ion Ratio Lower Upper
95 100
174 70.8 0.0 131.8
176 69.9 0.0 126.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052127.D
Acq: 2 Nov 2018 14:22

Tgt Ion: 117 Resp: 503898
Ion Ratio Lower Upper
117 100
82 56.7 49.9 74.9
119 32.7 25.7 38.5





#71

Bromoform

Concen: 3.569 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#16

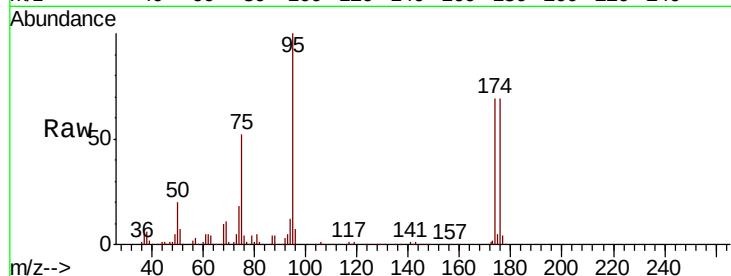
Tot Ion:173 Resp: 3115

Ion Ratio Lower Upper

173 100

175 413.4 23.9 71.7#

254 0.0 0.0 0.0

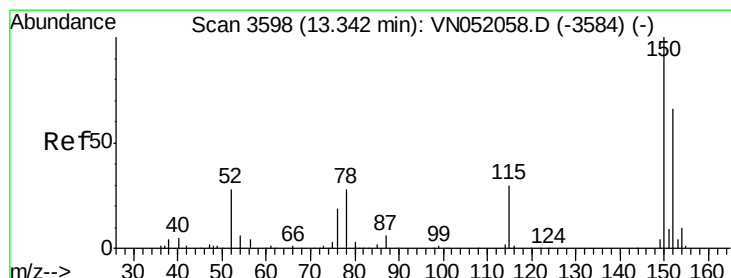
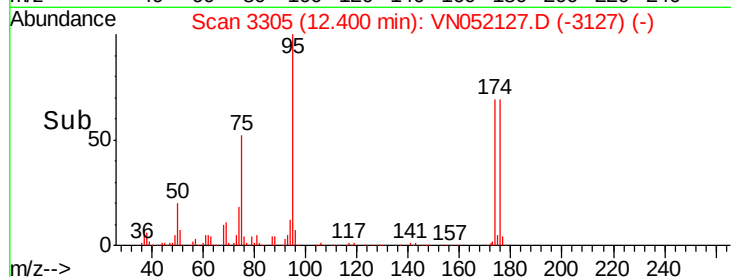
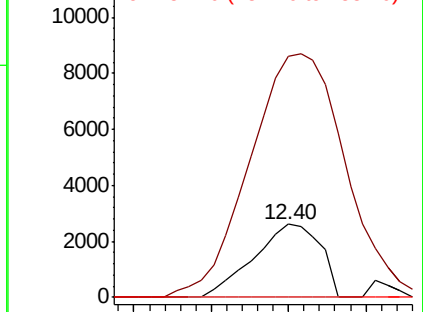


Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

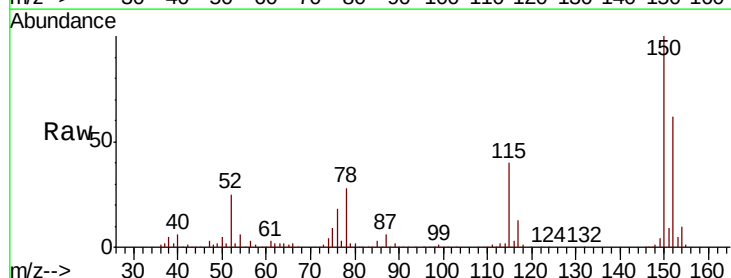
Tgt Ion:152 Resp: 200248

Ion Ratio Lower Upper

152 100

115 64.4 31.6 95.0

150 160.2 0.0 345.0

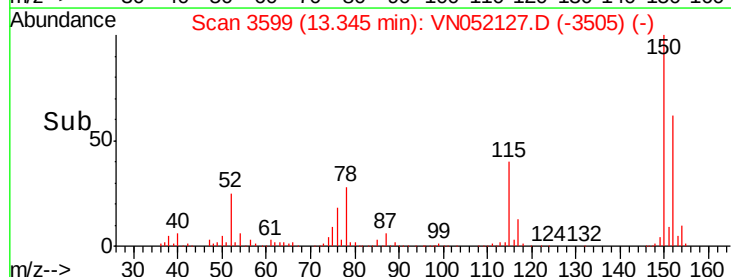
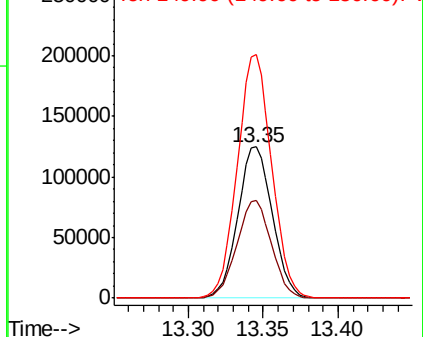


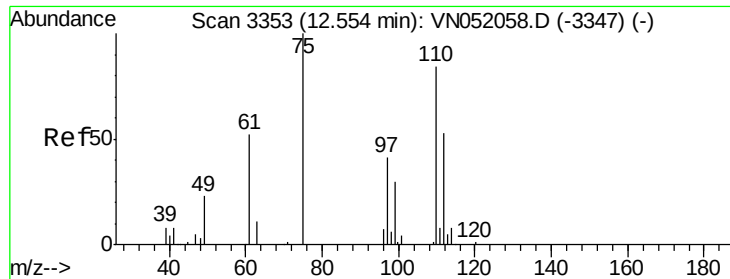
Abundance

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





#76

1,2,3-Trichloropropane

Concen: 39.005 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

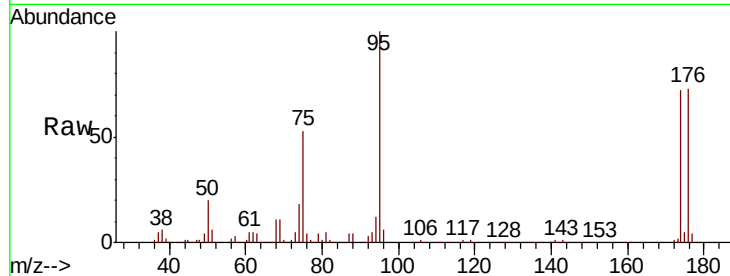
PB114370ZHE#16

Tot Ion: 75 Resp: 142978

Ion Ratio Lower Upper

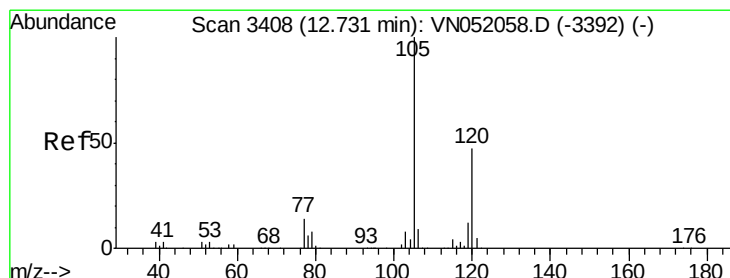
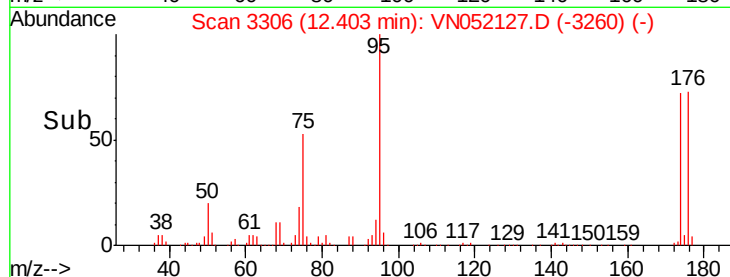
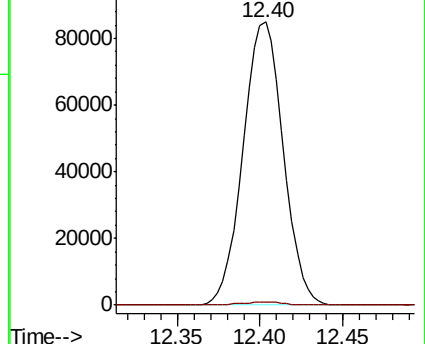
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN052058.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN052058.D (-3347) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.202 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052127.D

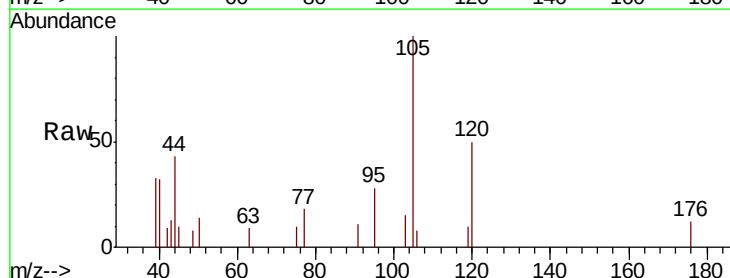
Acq: 2 Nov 2018 14:22

Tgt Ion: 105 Resp: 2820

Ion Ratio Lower Upper

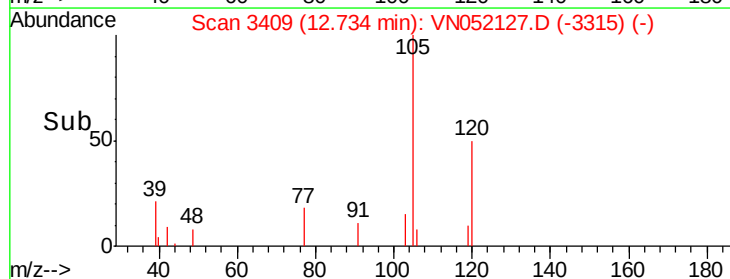
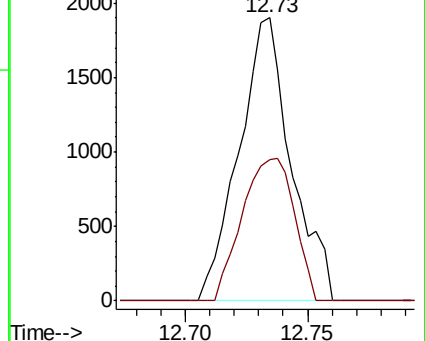
105 100

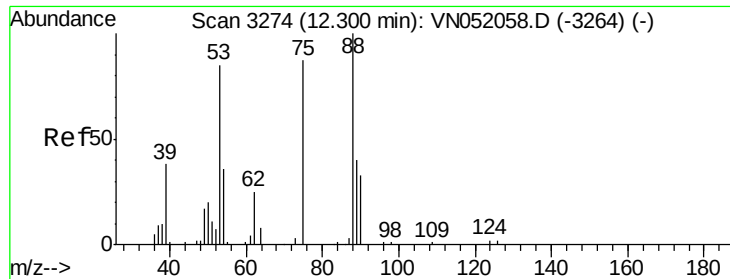
120 50.4 23.4 70.0



Abundance Ion 105.00 (104.70 to 105.70): VN052058.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN052058.D (-3392) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 129.464 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#16

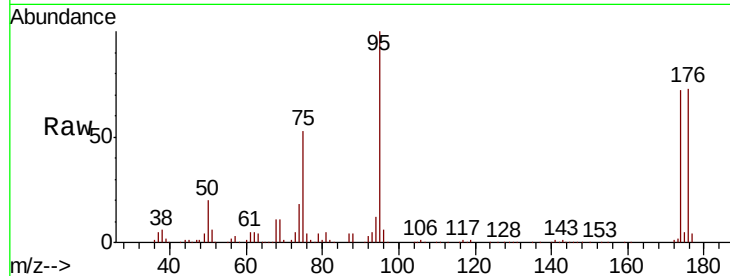
Tot Ion: 75 Resp: 142978

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.6#

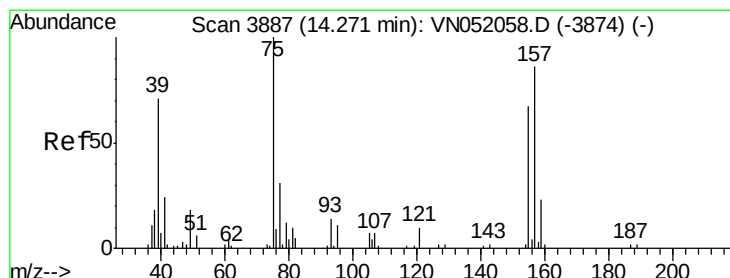
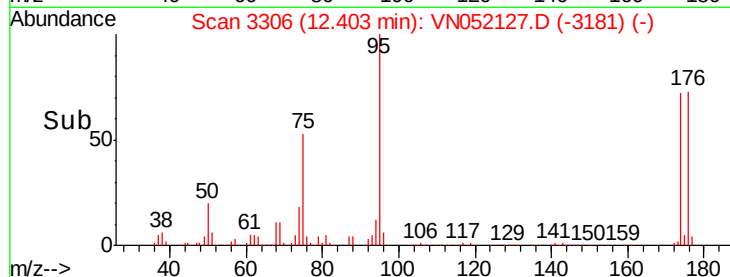
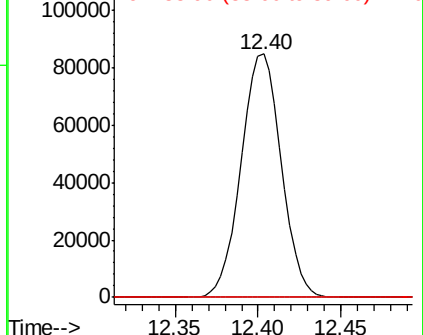
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.970 ug/l

RT: 14.52 min Scan# 3963

Delta R.T. 0.24 min

Lab File: VN052127.D

Acq: 2 Nov 2018 14:22

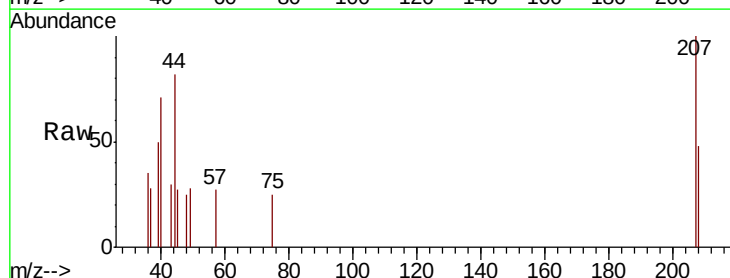
Tgt Ion: 75 Resp: 31

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

