

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052129.D
 Acq On : 2 Nov 2018 15:16
 Operator : MD\SY
 Sample : PB114370ZHE#18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114370ZHE#18

Quant Time: Nov 02 23:13:55 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	269561	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	508011	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	478822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	187301	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	239354	55.33	ug/l	0.00
Spiked Amount			Recovery	=	110.66%	
35) Dibromofluoromethane	7.60	113	193398	60.85	ug/l	0.00
Spiked Amount			Recovery	=	121.70%	
50) Toluene-d8	10.09	98	762005	59.99	ug/l	0.00
Spiked Amount			Recovery	=	119.98%	
62) 4-Bromofluorobenzene	12.40	95	255630	54.82	ug/l	0.00
Spiked Amount			Recovery	=	109.64%	

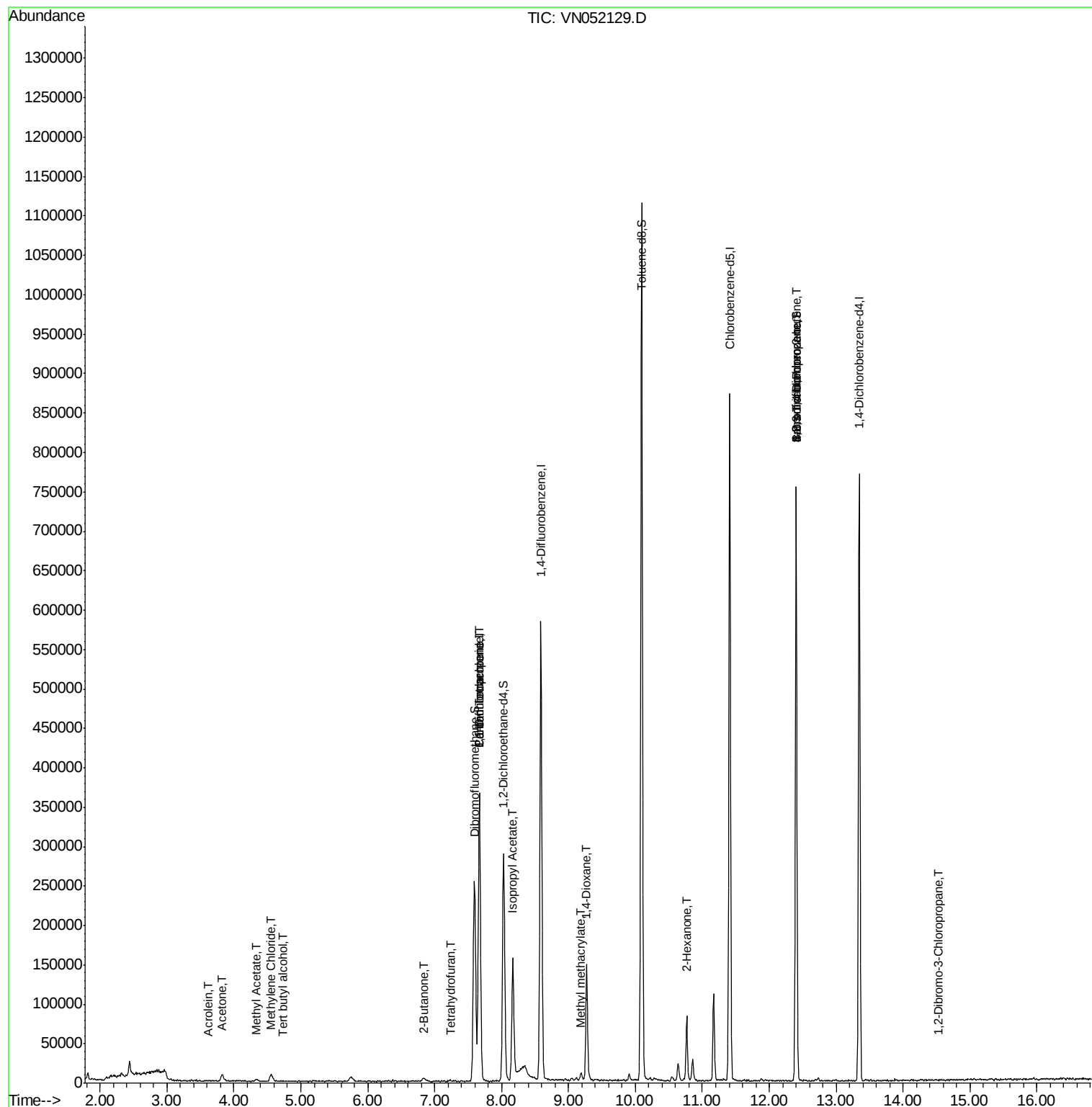
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	230	1.062	ug/l #	76
13) Acrolein	3.61	56	148	24.652	ug/l #	65
16) Acetone	3.82	43	13771	14.915	ug/l #	88
18) Methyl Acetate	4.33	43	2029	0.690	ug/l #	83
20) Methylene Chloride	4.56	84	5615	1.596	ug/l	94
25) 2-Butanone	6.85	43	1651	1.140	ug/l #	50
29) Tetrahydrofuran	7.22	42	711	0.737	ug/l	91
31) Cyclohexane	7.67	56	7111	Below Cal	#	13
36) 1,1-Dichloropropene	7.67	75	24905	4.821	ug/l #	52
38) Carbon Tetrachloride	7.67	117	28269	6.347	ug/l #	19
43) Isopropyl Acetate	8.17	43	189711	30.850	ug/l	98
48) Methyl methacrylate	9.18	41	5851	1.877	ug/l #	15
49) 1,4-Dioxane	9.27	88	30	26.180	ug/l #	1
59) 2-Hexanone	10.77	43	11125	4.671	ug/l #	57
71) Bromoform	12.39	173	590	2.455	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	133281	38.873	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	133281	129.026	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.53	75	62	1.029	ug/l #	11

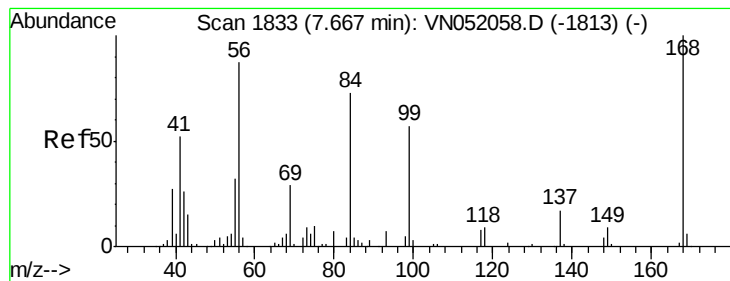
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

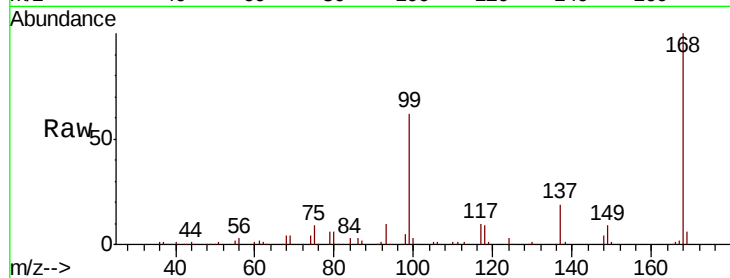
PB114370ZHE#18

Tot Ion:168 Resp: 269561

Ion Ratio Lower Upper

168 100

99 62.5 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052129.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052129.D (-1740) (-)

7.67

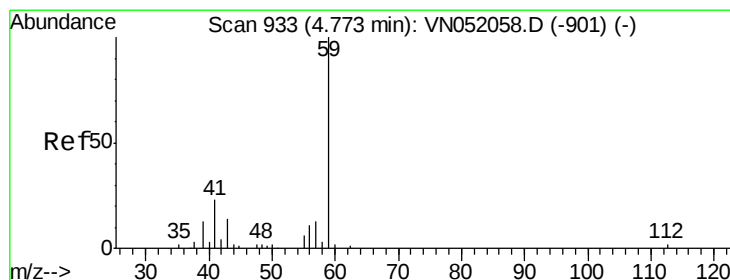
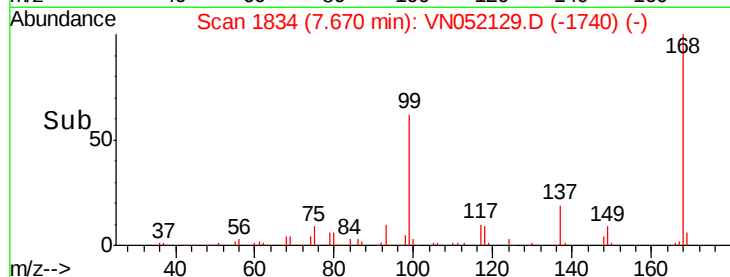
100000

50000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#11

Tert butyl alcohol

Concen: 1.062 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.03 min

Lab File: VN052129.D

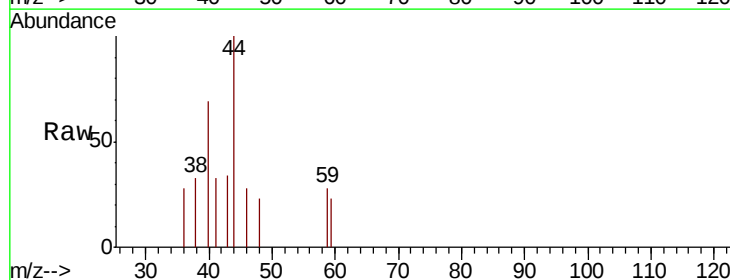
Acq: 2 Nov 2018 15:16

Tgt Ion: 59 Resp: 230

Ion Ratio Lower Upper

59 100

57 0.0 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN052129.D (-840) (-)

Ion 57.00 (56.70 to 57.70): VN052129.D (-840) (-)

4.75

300

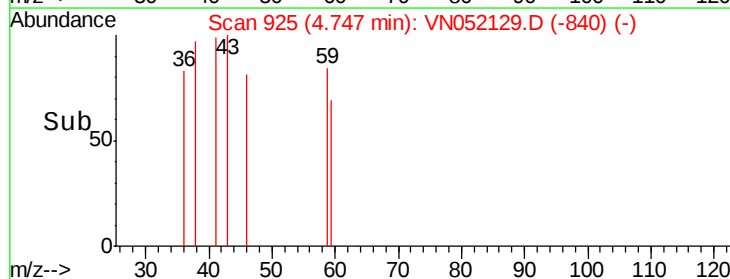
200

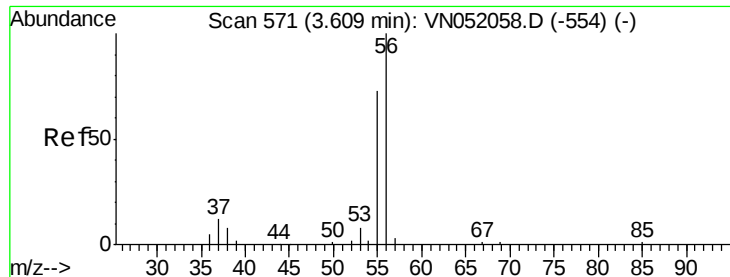
100

0

4.73 4.74 4.75 4.76

Time-->





#13

Acrolein

Concen: 24.652 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

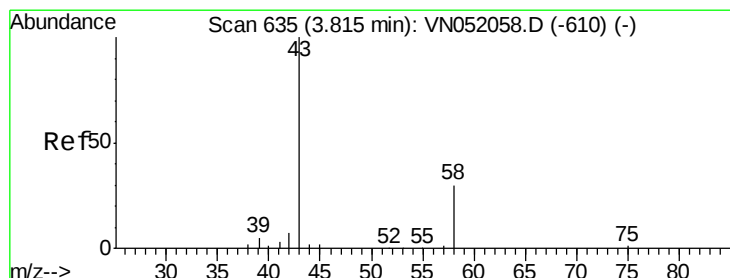
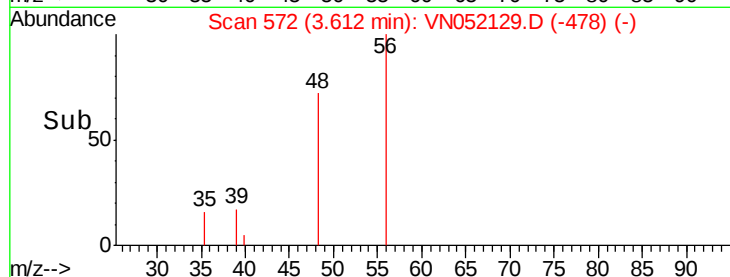
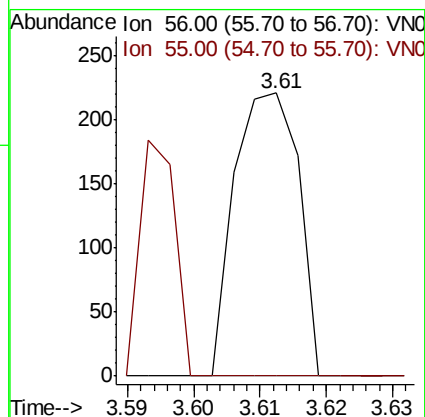
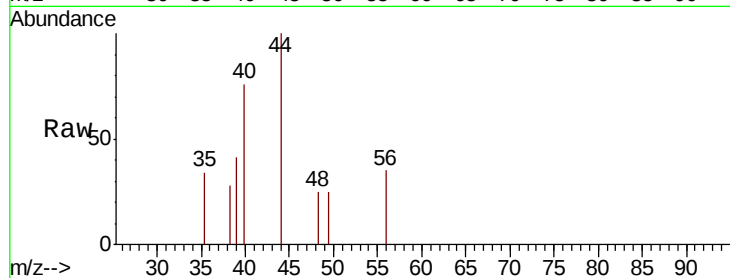
PB114370ZHE#18

Tot Ion: 56 Resp: 148

Ion Ratio Lower Upper

56 100

55 45.3 59.9 89.9#



#16

Acetone

Concen: 14.915 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN052129.D

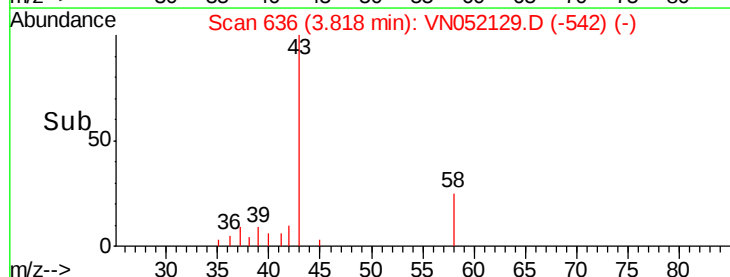
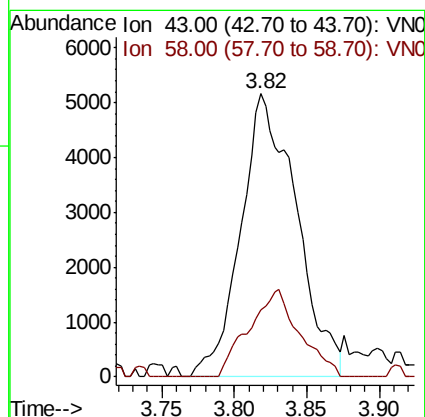
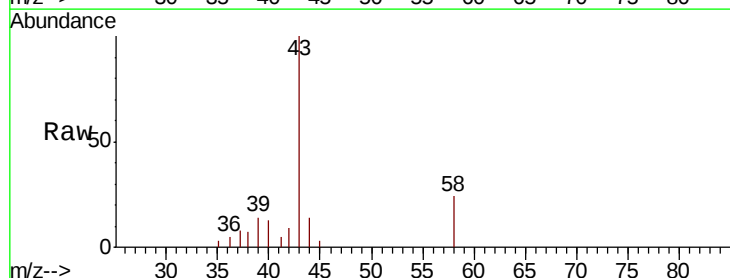
Acq: 2 Nov 2018 15:16

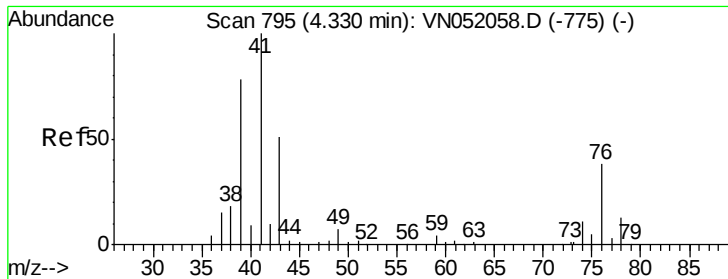
Tgt Ion: 43 Resp: 13771

Ion Ratio Lower Upper

43 100

58 23.7 24.2 36.2#

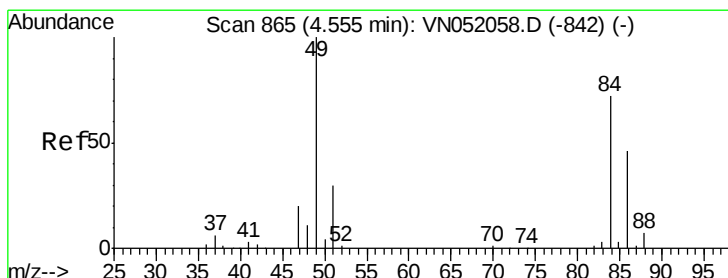
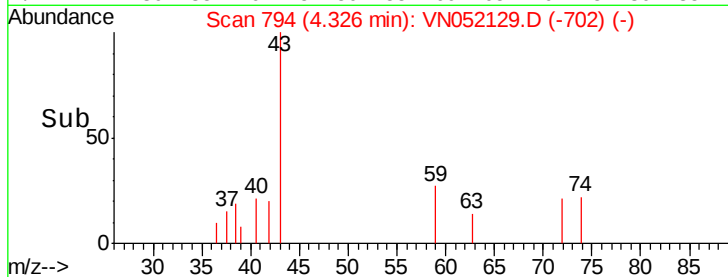
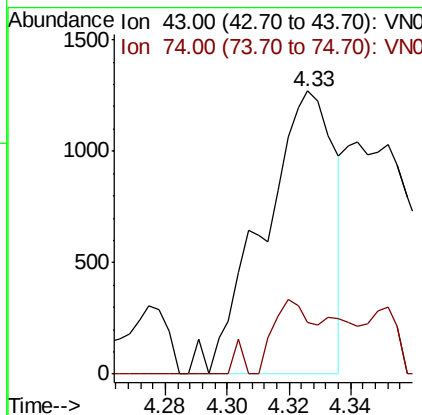
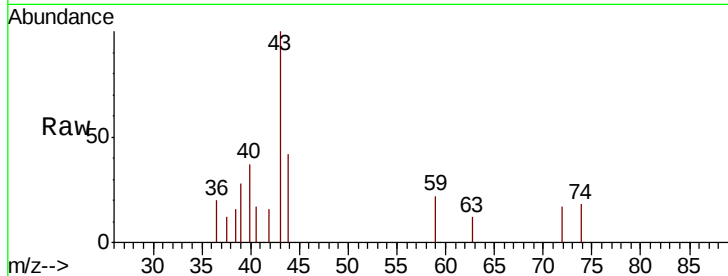




#18
Methvl Acetate
Concen: 0.690 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052129.D
Acq: 2 Nov 2018 15:16

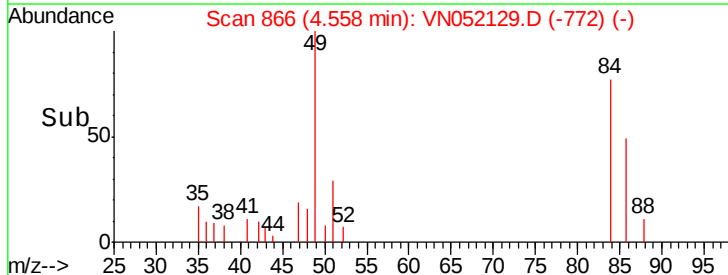
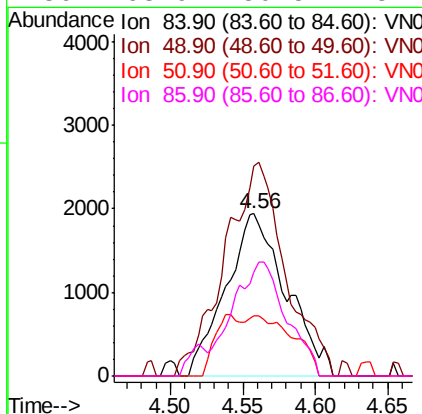
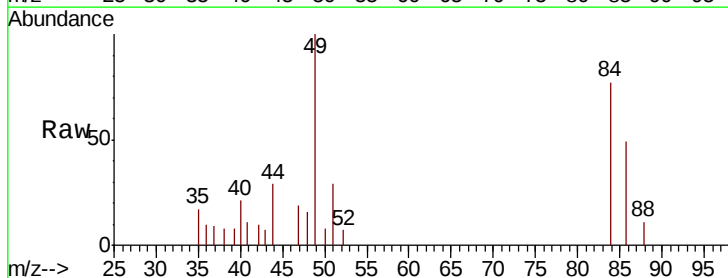
Instrument :
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ClientSampleId :
PB114370ZHE#18

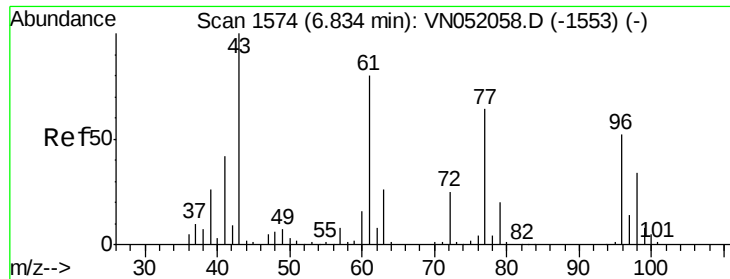
Tot Ion: 43 Resp: 2029
Ion Ratio Lower Upper
43 100
74 14.4 17.9 26.9#



#20
Methylene Chloride
Concen: 1.596 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052129.D
Acq: 2 Nov 2018 15:16

Tgt Ion: 84 Resp: 5615
Ion Ratio Lower Upper
84 100
49 129.3 110.6 165.8
51 37.3 33.7 50.5
86 63.9 50.5 75.7

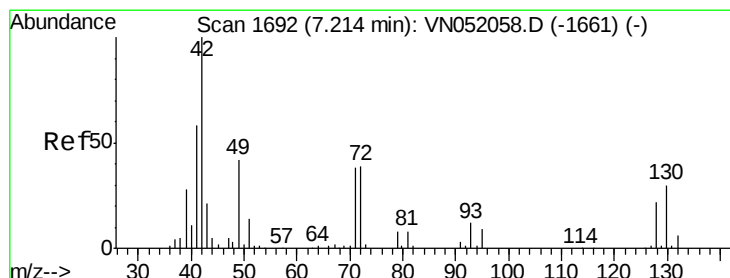
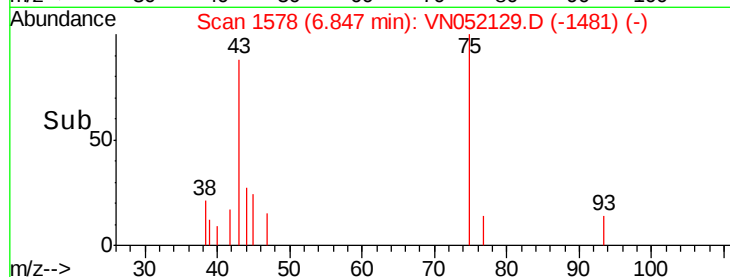
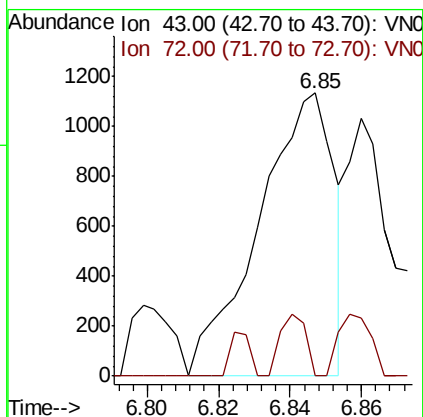
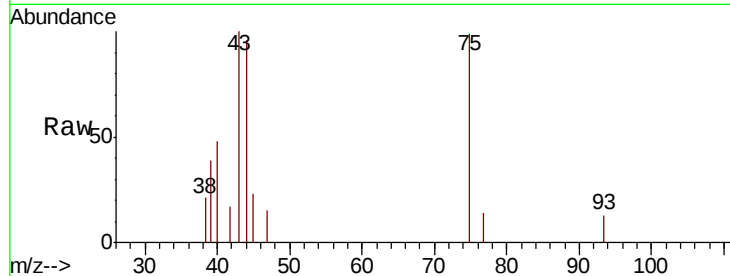




#25
2-Butanone
Concen: 1.140 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052129.D
Acq: 2 Nov 2018 15:16

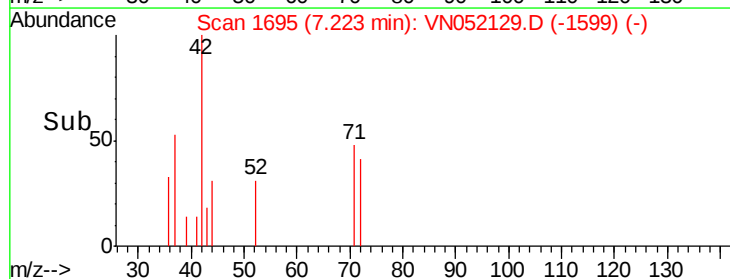
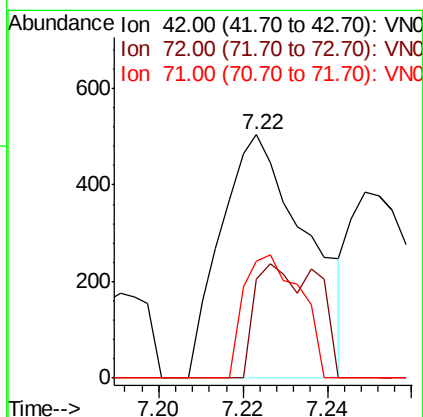
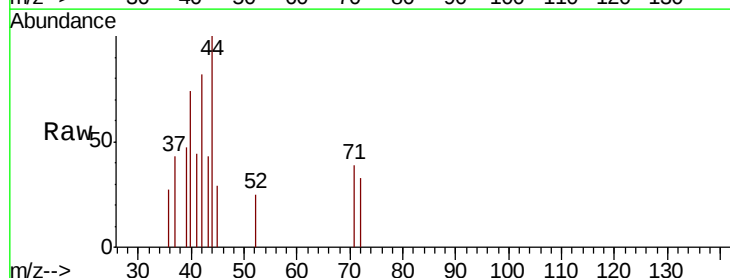
Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#18

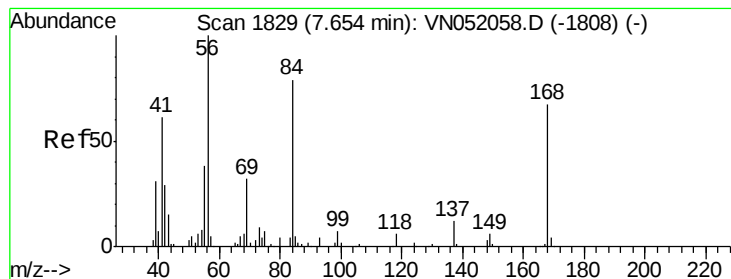
Tot Ion: 43 Resp: 1651
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.2#



#29
Tetrahydrofuran
Concen: 0.737 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN052129.D
Acq: 2 Nov 2018 15:16

Tgt Ion: 42 Resp: 711
Ion Ratio Lower Upper
42 100
72 34.3 32.5 48.7
71 33.5 30.6 46.0





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#18

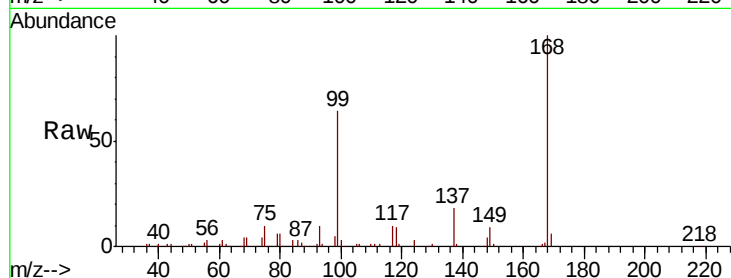
Tot Ion: 56 Resp: 7111

Ion Ratio Lower Upper

56 100

69 149.3 25.8 38.6#

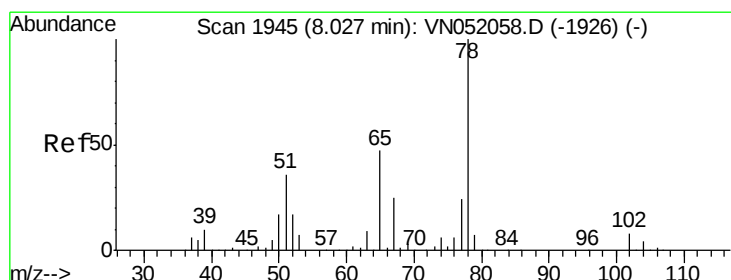
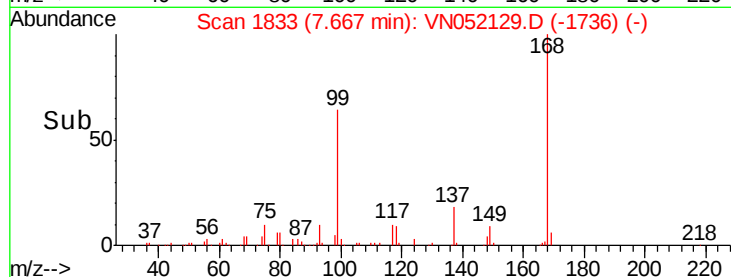
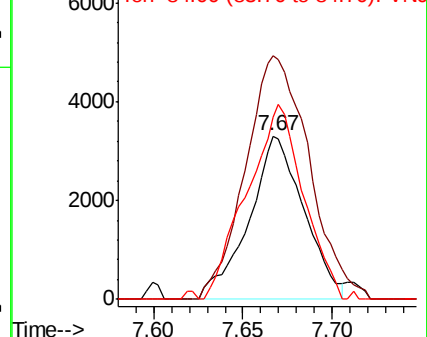
84 111.8 63.5 95.3#



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: VN052129.D

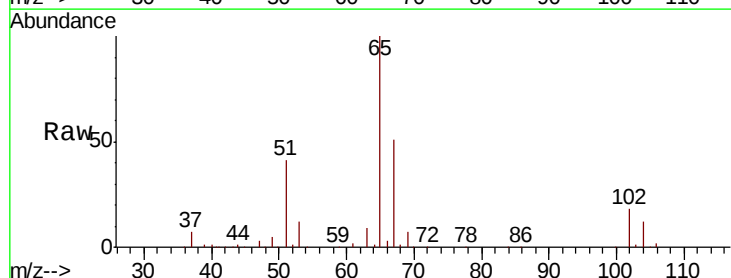
Acq: 2 Nov 2018 15:16

Tgt Ion: 65 Resp: 239354

Ion Ratio Lower Upper

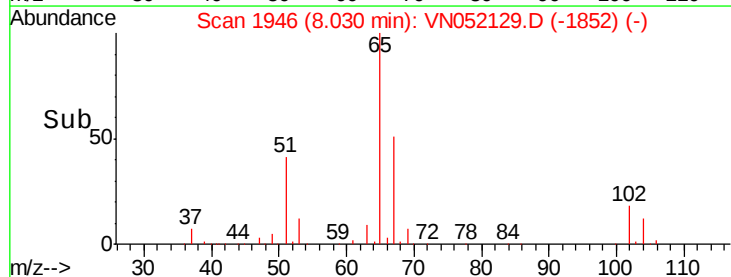
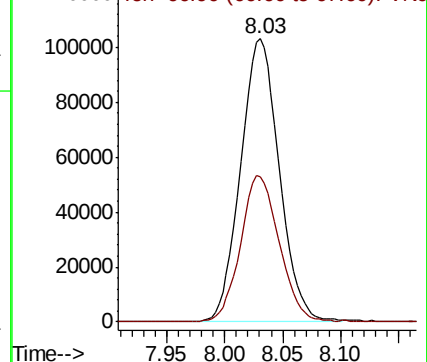
65 100

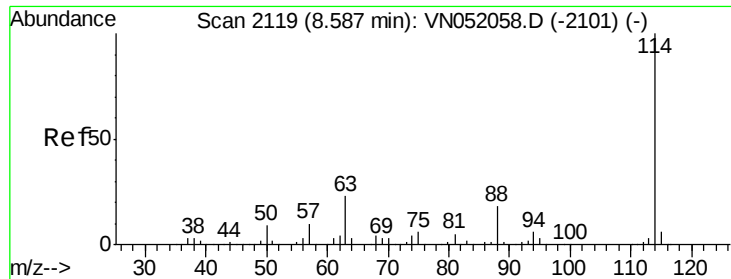
67 51.7 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

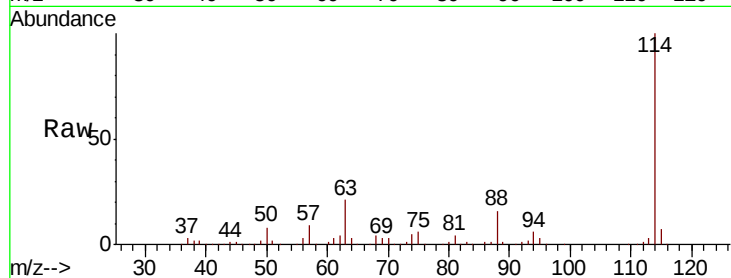




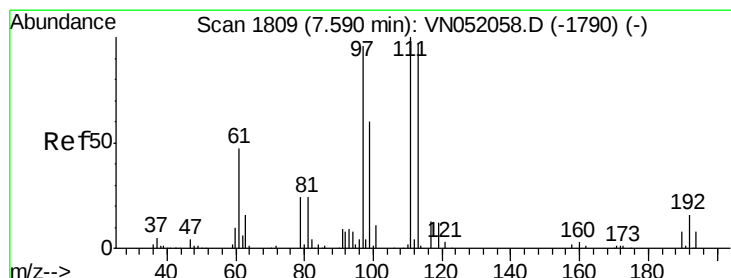
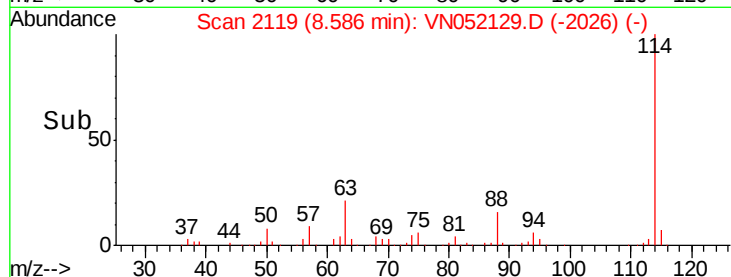
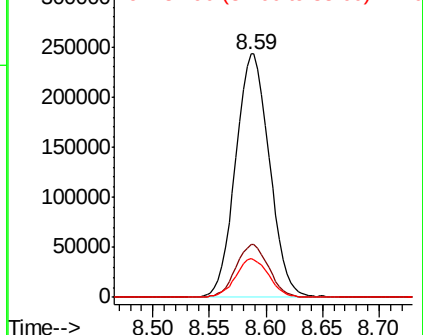
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN052129.D
Acq: 2 Nov 2018 15:16

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#18

Tot Ion:114 Resp: 508011
Ion Ratio Lower Upper
114 100
63 21.5 0.0 46.0
88 16.2 0.0 35.4

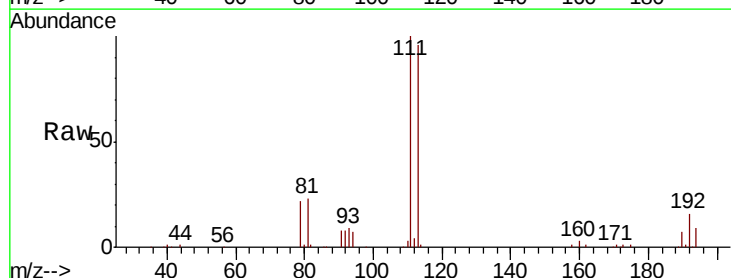


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

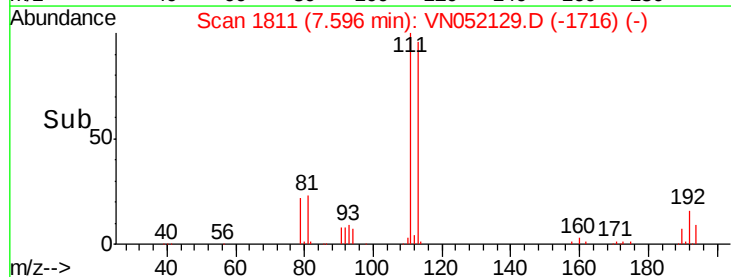
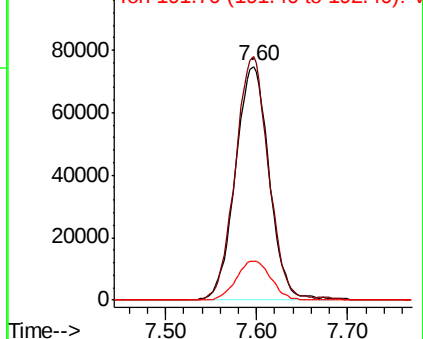


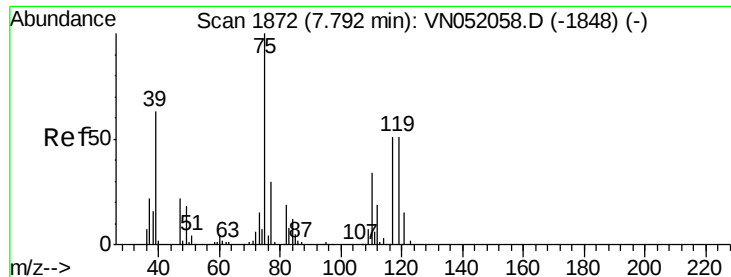
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.60 min Scan# 1811
Delta R.T. 0.01 min
Lab File: VN052129.D
Acq: 2 Nov 2018 15:16

Tgt Ion:113 Resp: 193398
Ion Ratio Lower Upper
113 100
111 101.9 83.1 124.7
192 17.0 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

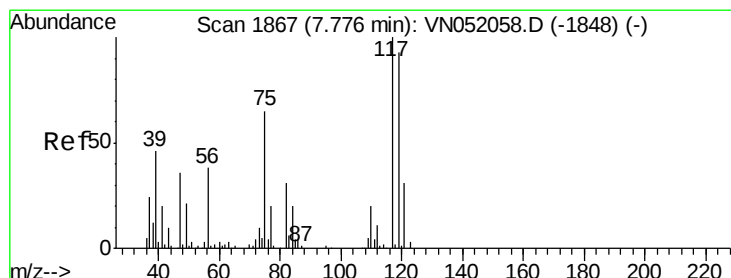
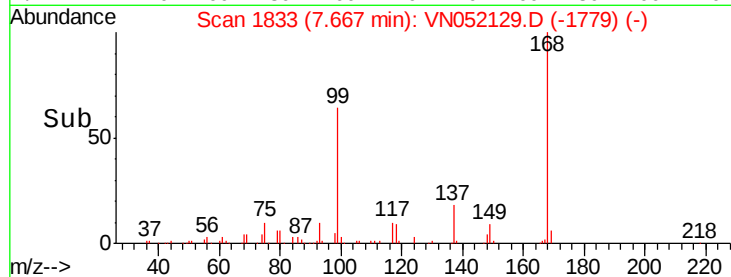
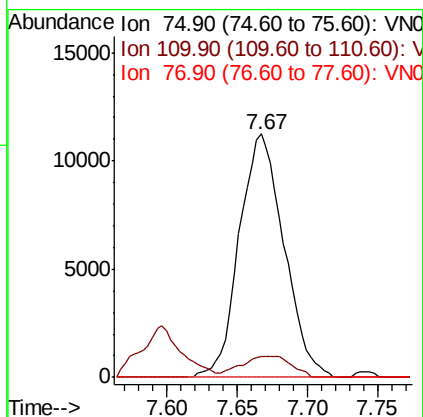
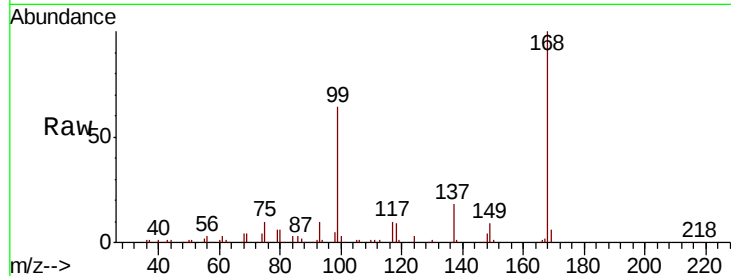




#36
 1,1-Dichloropropene
 Concen: 4.821 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052129.D
 Acq: 2 Nov 2018 15:16

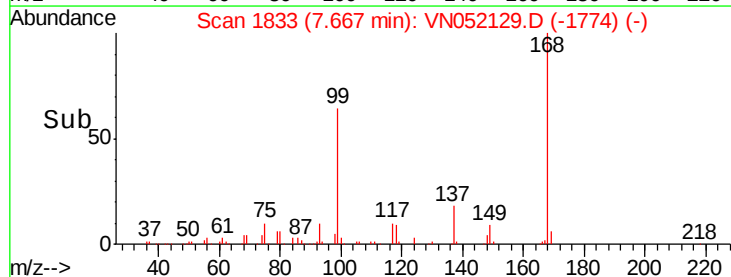
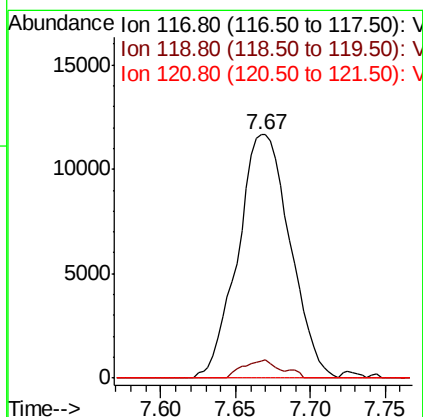
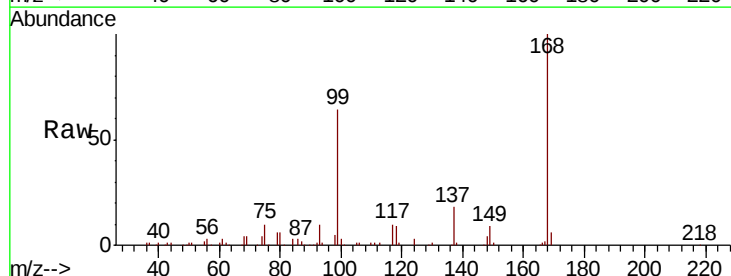
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 PB114370ZHE#18

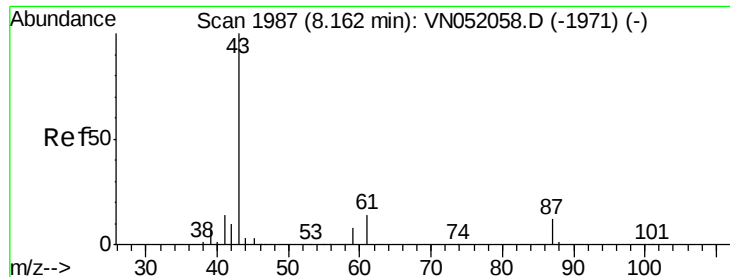
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	16.0	48.0#
77	0.0	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.347 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052129.D
 Acq: 2 Nov 2018 15:16

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	74.8	112.2#
121	0.0	25.1	37.7#





#43

Isopropyl Acetate

Concen: 30.850 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#18

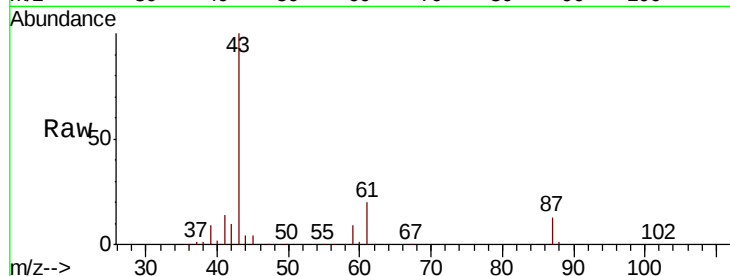
Tot Ion: 43 Resp: 189711

Ion Ratio Lower Upper

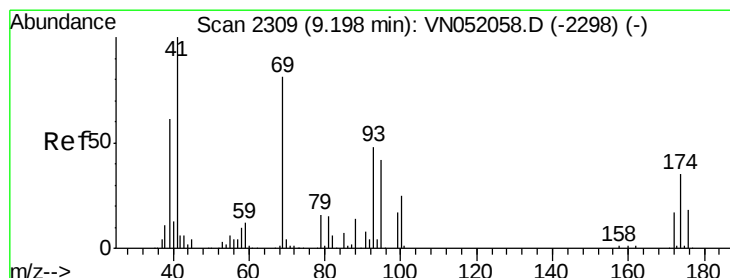
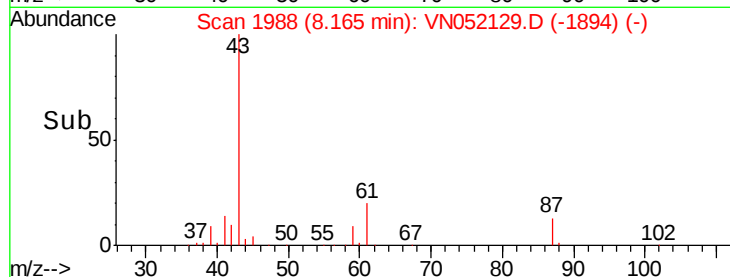
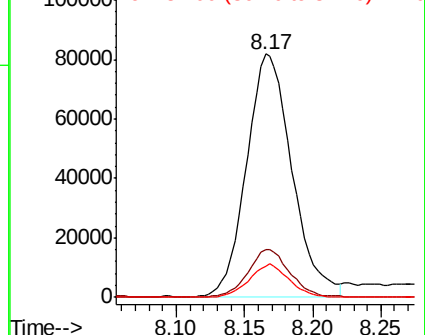
43 100

61 18.1 15.4 23.0

87 11.9 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.877 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

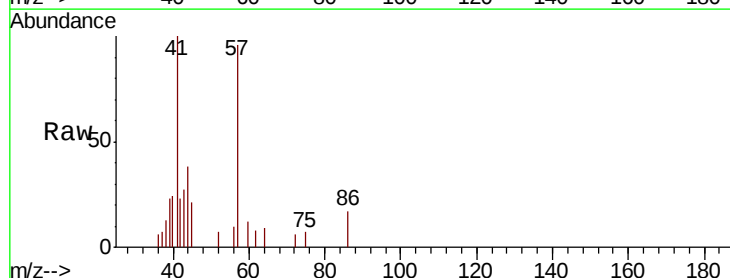
Tgt Ion: 41 Resp: 5851

Ion Ratio Lower Upper

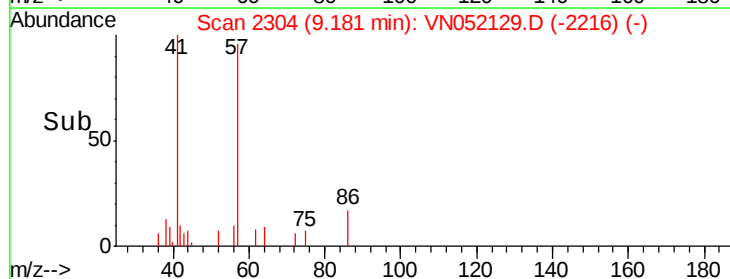
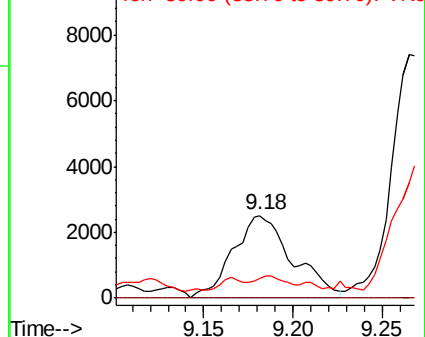
41 100

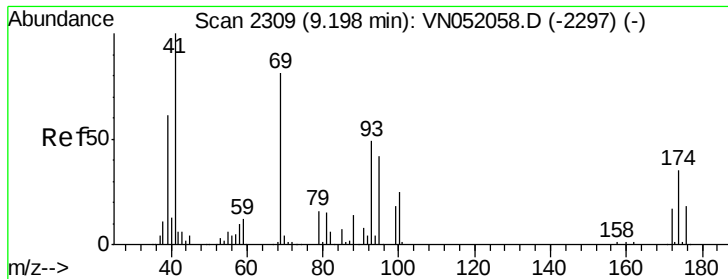
69 0.0 67.1 100.7#

39 5.3 50.5 75.7#



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





#49

1,4-Dioxane

Concen: 26.180 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.08 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#18

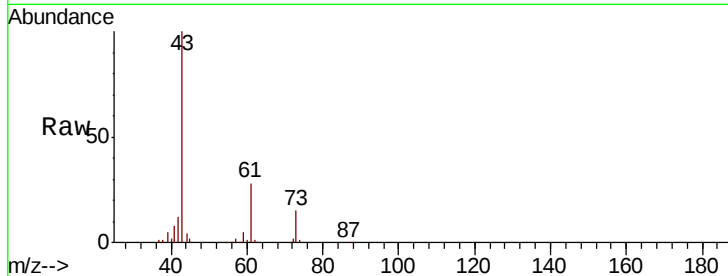
Tot Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 507243.3 34.1 51.1#

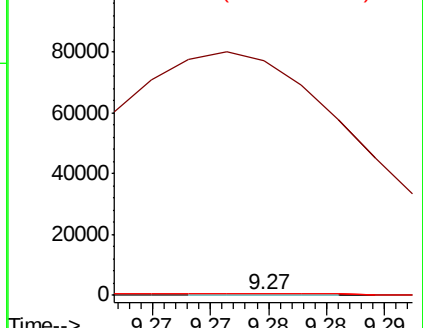
58 2950.0 62.8 94.2#



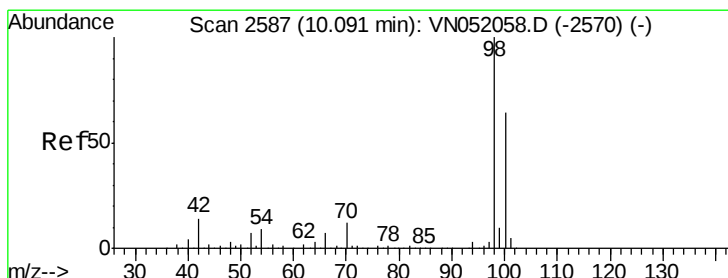
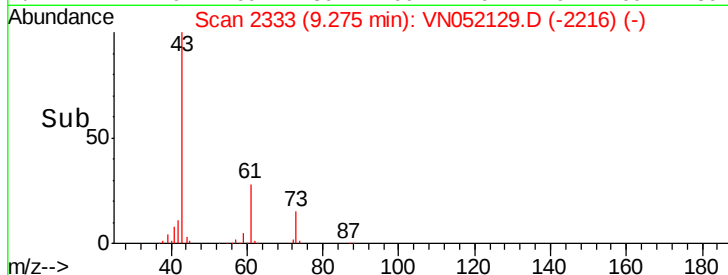
Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->



#50

Toluene-d8

Concen: 26.180 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052129.D

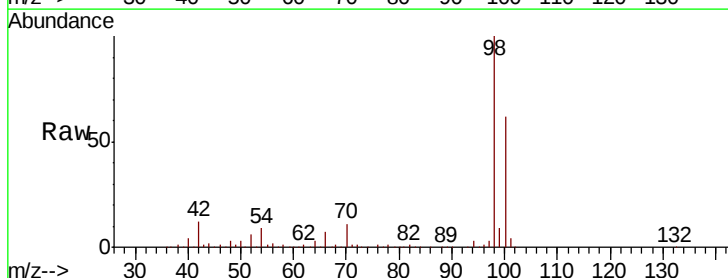
Acq: 2 Nov 2018 15:16

Tgt Ion: 98 Resp: 762005

Ion Ratio Lower Upper

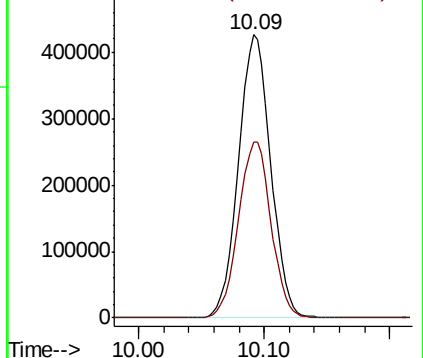
98 100

100 62.9 51.4 77.2

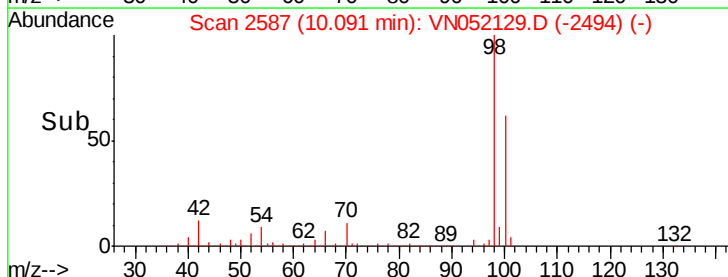


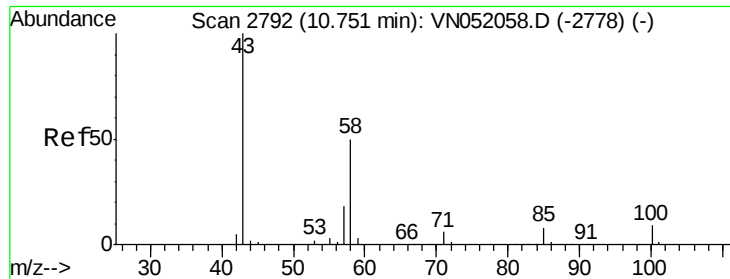
Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0



Time-->





#59

2-Hexanone

Concen: 4.671 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

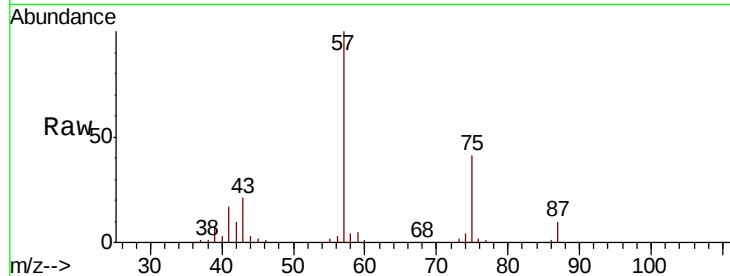
PB114370ZHE#18

Tot Ion: 43 Resp: 11125

Ion Ratio Lower Upper

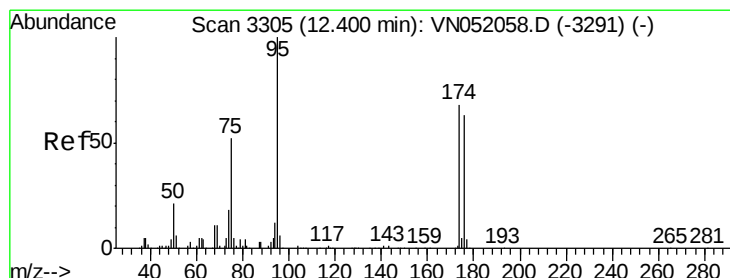
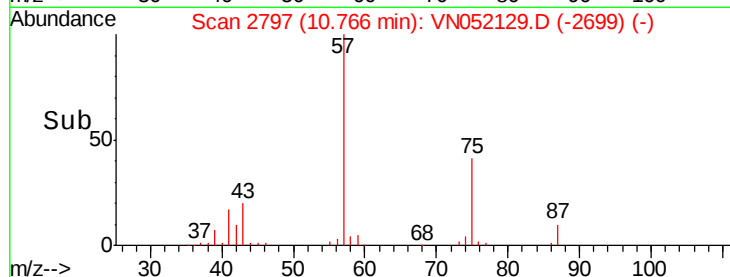
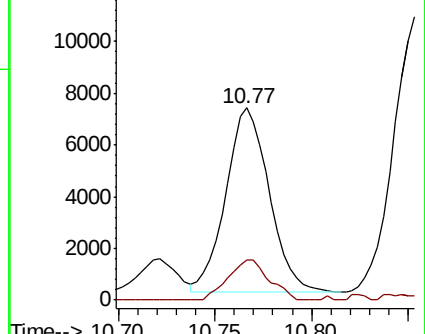
43 100

58 20.5 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# 3306

Delta R.T. 0.00 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

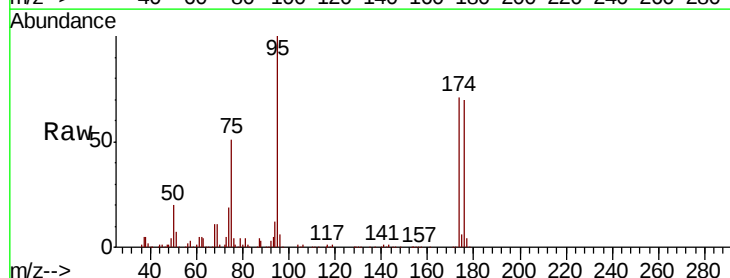
Tgt Ion: 95 Resp: 255630

Ion Ratio Lower Upper

95 100

174 71.4 0.0 131.8

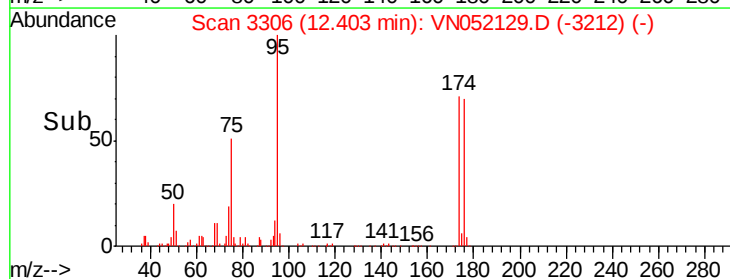
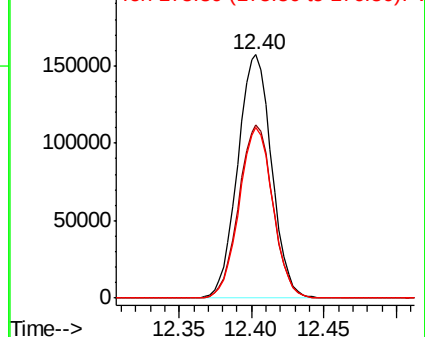
176 69.5 0.0 126.0

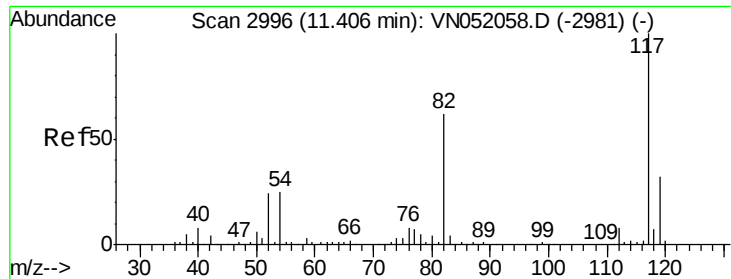


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

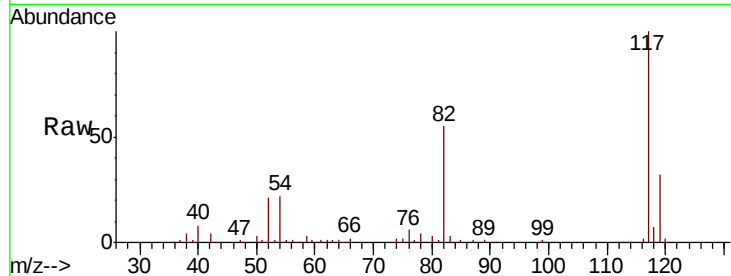




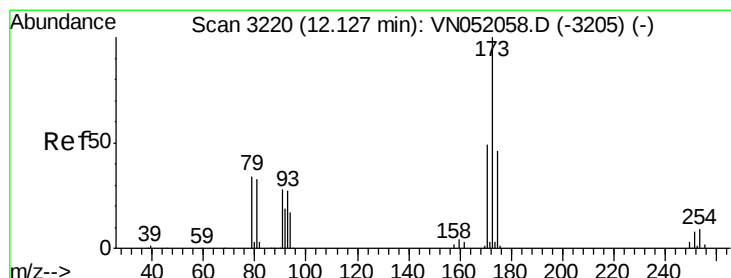
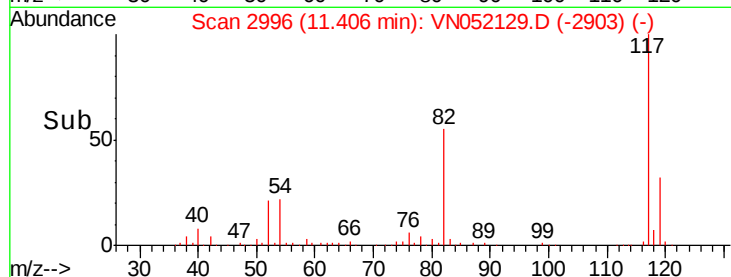
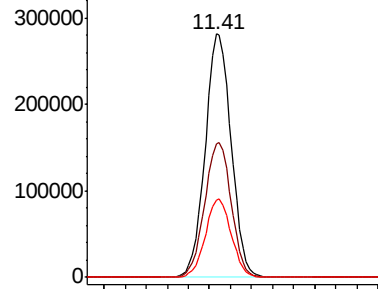
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052129.D
Acq: 2 Nov 2018 15:16

Instrument :
MSVOA_N
ClientSampleId :
PB114370ZHE#18

Tot Ion:117 Resp: 478822
Ion Ratio Lower Upper
117 100
82 54.7 49.9 74.9
119 31.9 25.7 38.5

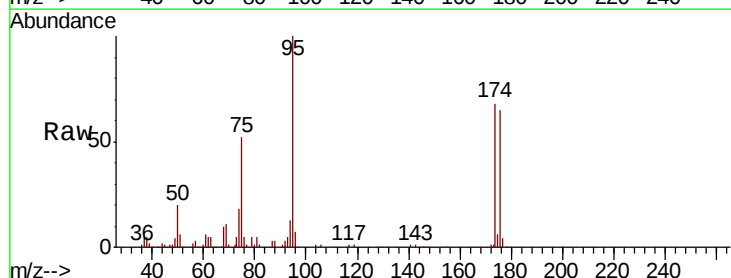


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

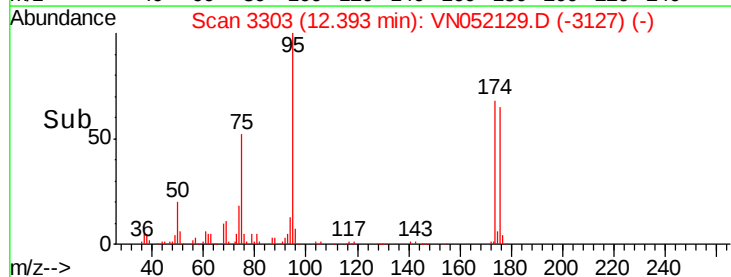
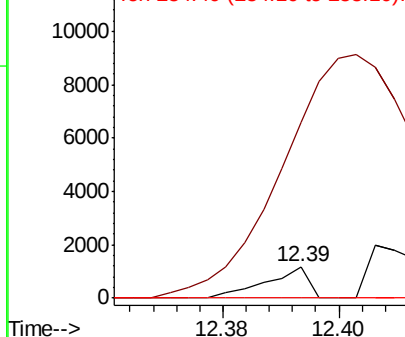


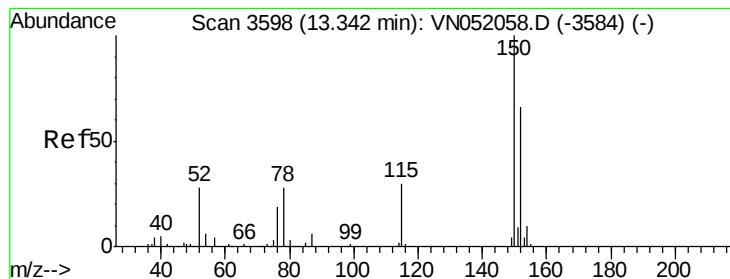
#71
Bromoform
Concen: 2.455 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN052129.D
Acq: 2 Nov 2018 15:16

Tgt Ion:173 Resp: 590
Ion Ratio Lower Upper
173 100
175 0.0 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: VN052129.D

Acq: 2 Nov 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#18

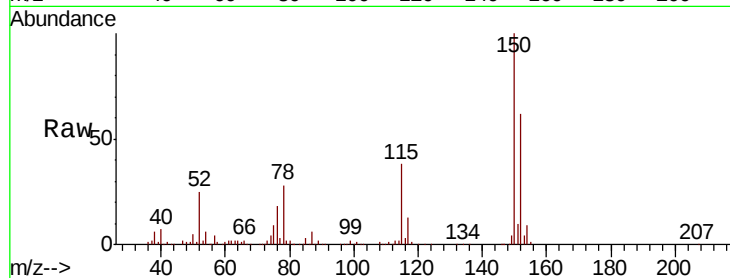
Tot Ion:152 Resp: 187301

Ion Ratio Lower Upper

152 100

115 63.3 31.6 95.0

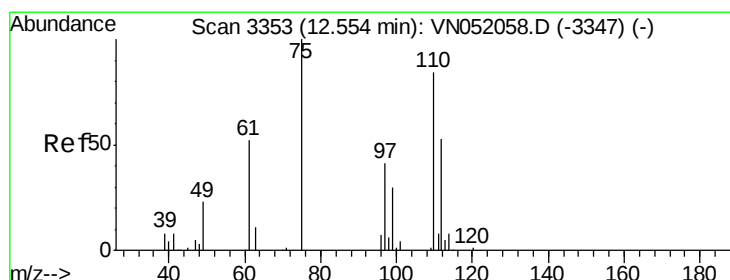
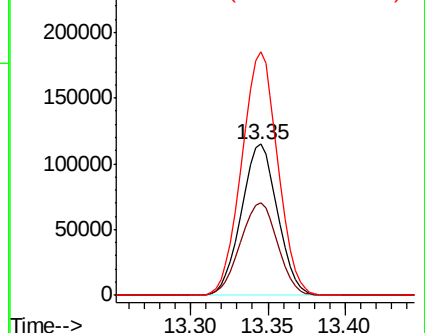
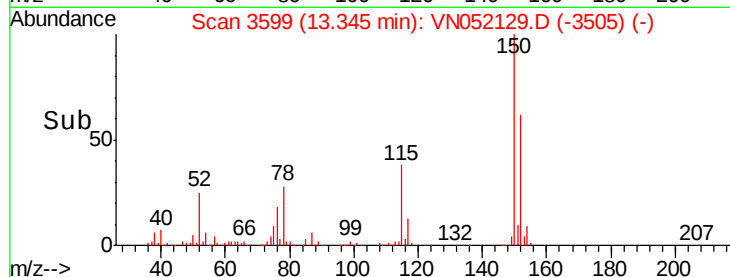
150 160.0 0.0 345.0



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: 38.873 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052129.D

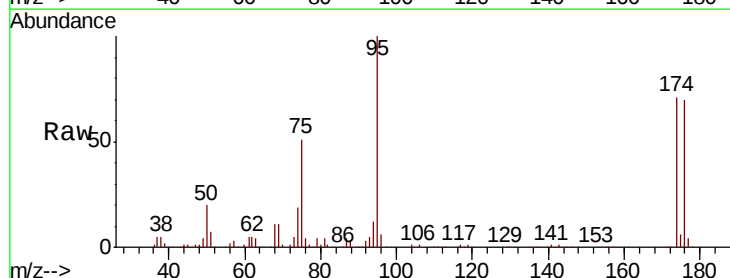
Acq: 2 Nov 2018 15:16

Tgt Ion: 75 Resp: 133281

Ion Ratio Lower Upper

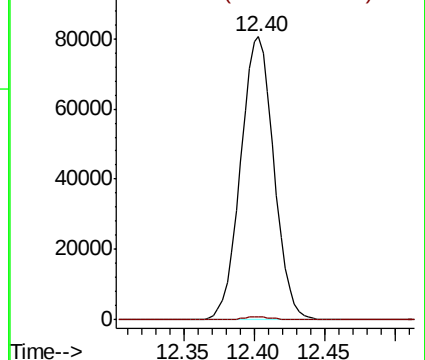
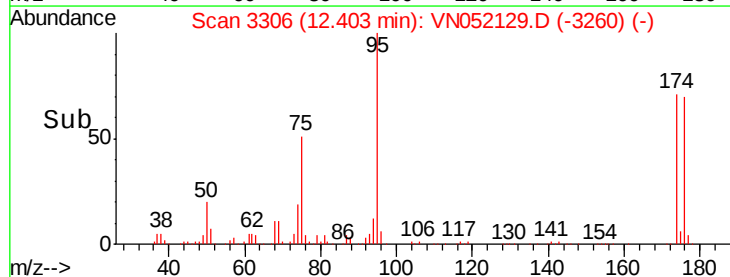
75 100

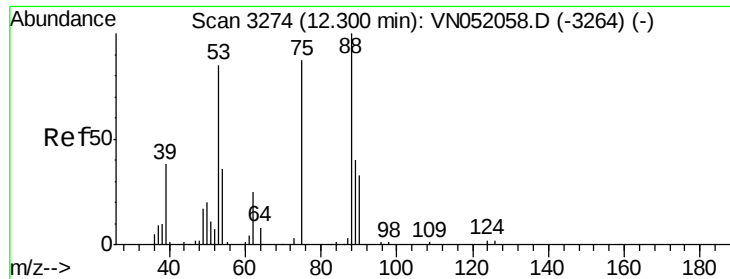
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 129.026 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

Instrument :

MSVOA_N

ClientSampleId :

PB114370ZHE#18

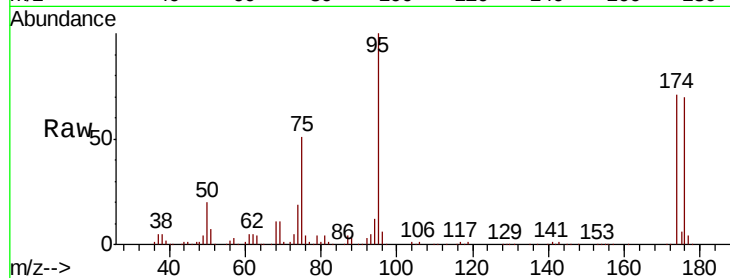
Tot Ion: 75 Resp: 133281

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

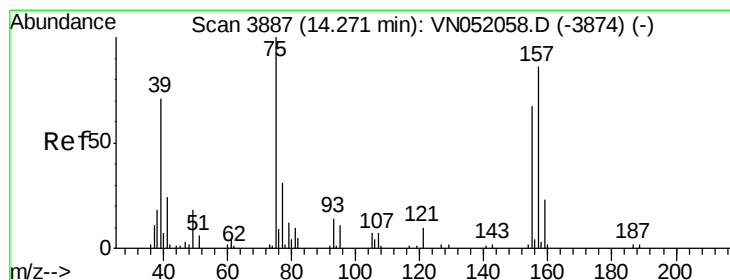
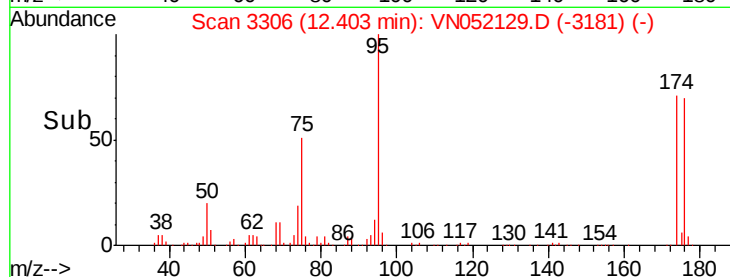
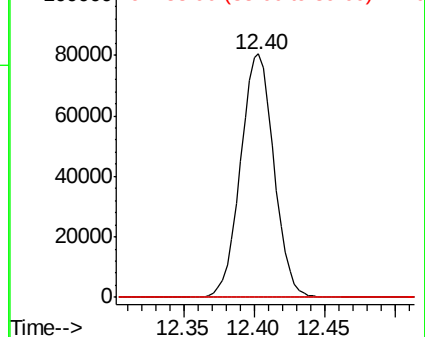
89 0.0 36.6 54.8#



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: 1.029 ug/l

RT: 14.53 min Scan# 3969

Delta R.T. 0.26 min

Lab File: VN052129.D

Acq: 2 Nov 2018 15:16

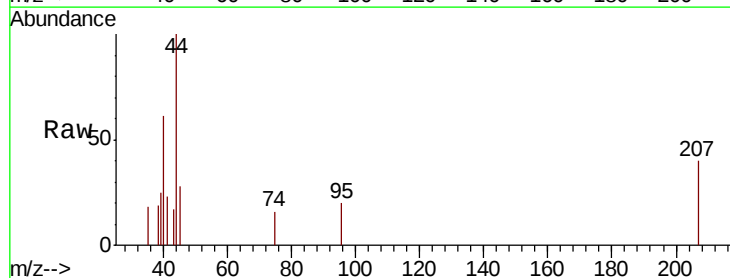
Tgt Ion: 75 Resp: 62

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

