

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052132.D
 Acq On : 2 Nov 2018 16:37
 Operator : MD\SY
 Sample : J5741-46
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11

Quant Time: Nov 02 23:14:40 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	269350	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	505546	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	476781	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	193298	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	233710	54.07	ug/l	0.00
Spiked Amount			Recovery	=	108.14%	
35) Dibromofluoromethane	7.59	113	189011	59.76	ug/l	0.00
Spiked Amount			Recovery	=	119.52%	
50) Toluene-d8	10.09	98	757067	59.89	ug/l	0.00
Spiked Amount			Recovery	=	119.78%	
62) 4-Bromofluorobenzene	12.40	95	254461	54.84	ug/l	0.00
Spiked Amount			Recovery	=	109.68%	

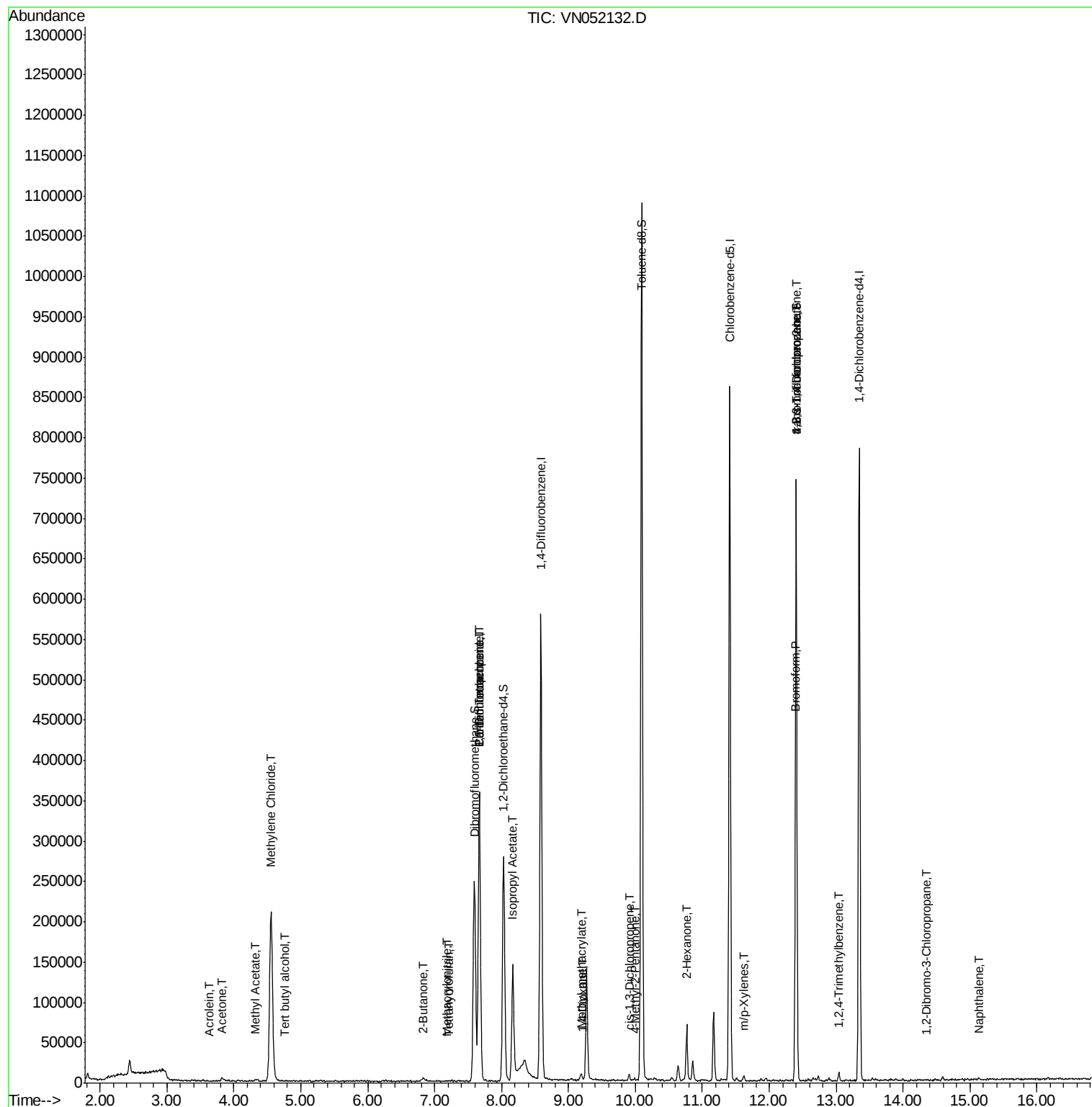
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	194	0.896	ug/l #	76
13) Acrolein	3.64	56	63	24.299	ug/l #	1
16) Acetone	3.82	43	6111	6.624	ug/l	92
18) Methyl Acetate	4.32	43	1219	0.415	ug/l #	69
20) Methylene Chloride	4.56	84	156625	44.553	ug/l	95
25) 2-Butanone	6.84	43	330	0.228	ug/l #	1
29) Tetrahydrofuran	7.21	42	298	0.309	ug/l #	62
31) Cyclohexane	7.66	56	7169	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	23984	4.666	ug/l #	51
38) Carbon Tetrachloride	7.67	117	26390	5.954	ug/l #	17
41) Methacrylonitrile	7.18	41	279	0.299	ug/l #	24
43) Isopropyl Acetate	8.17	43	176528	28.847	ug/l	97
48) Methyl methacrylate	9.18	41	5453	1.758	ug/l #	16
49) 1,4-Dioxane	9.22	88	30	26.185	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	1657	0.498	ug/l #	61
54) cis-1,3-Dichloropropene	9.90	75	1257	0.217	ug/l #	78
59) 2-Hexanone	10.77	43	10044	4.237	ug/l #	59
68) m/p-Xylenes	11.62	106	1357	0.212	ug/l #	42
71) Bromoform	12.38	173	66	2.209	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	132929	37.568	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	132929	124.693	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.04	105	5664	0.423	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	14.36	75	33	0.975	ug/l #	11
95) Naphthalene	15.13	128	1859	0.336	ug/l #	88

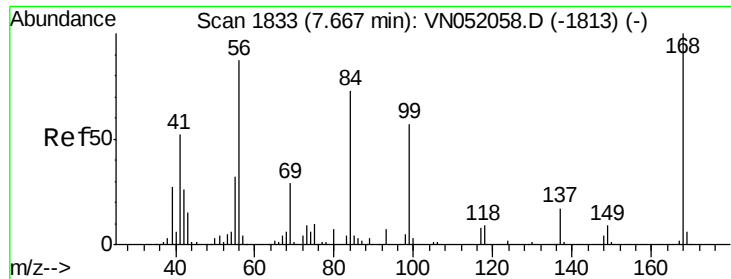
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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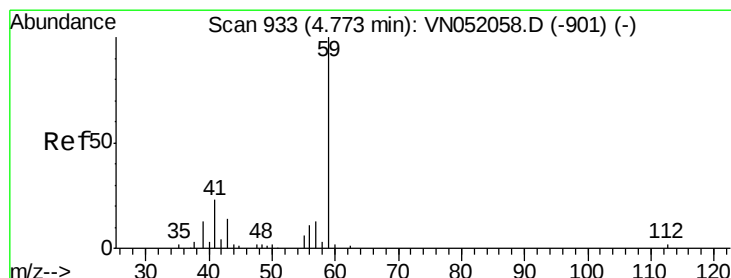
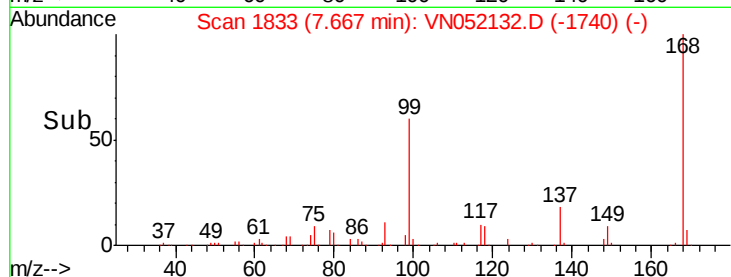
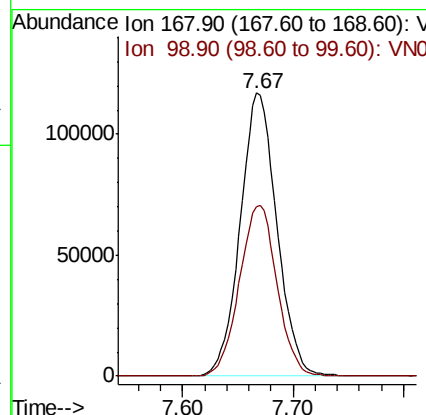
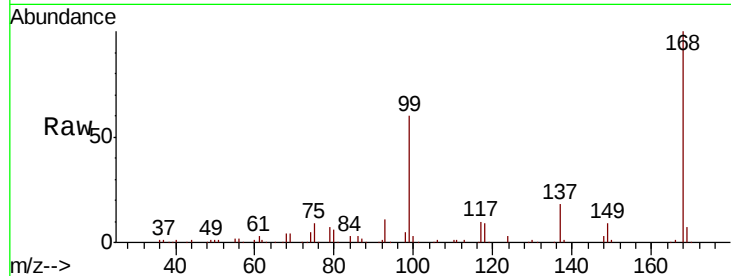




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

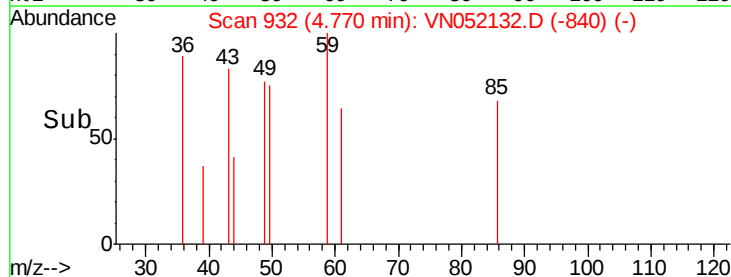
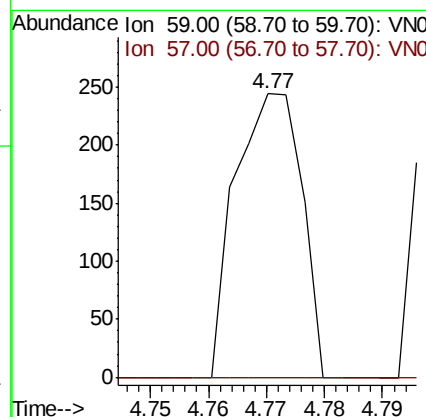
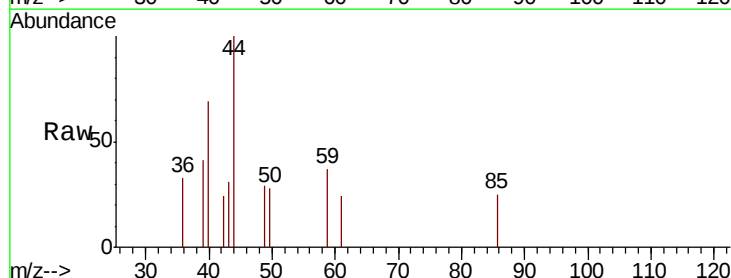
Instrument :
MSVOA_N
ClientSampled :
TP-11

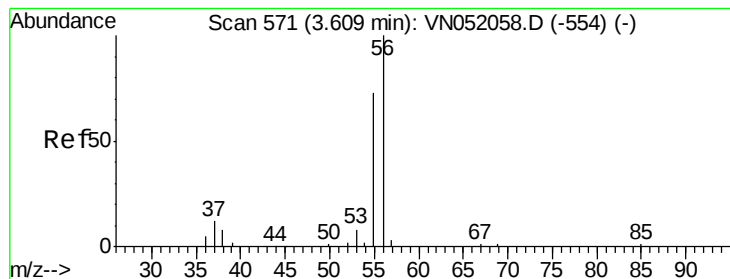
Tot Ion:168 Resp: 269350
Ion Ratio Lower Upper
168 100
99 59.9 56.6 85.0



#11
Tert butyl alcohol
Concen: 0.896 ug/l
RT: 4.77 min Scan# 932
Delta R.T. -0.00 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

Tgt Ion: 59 Resp: 194
Ion Ratio Lower Upper
59 100
57 0.0 7.0 10.6#





#13

Acrolein

Concen: 24.299 ug/l

RT: 3.64 min Scan# 579

Delta R.T. 0.03 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

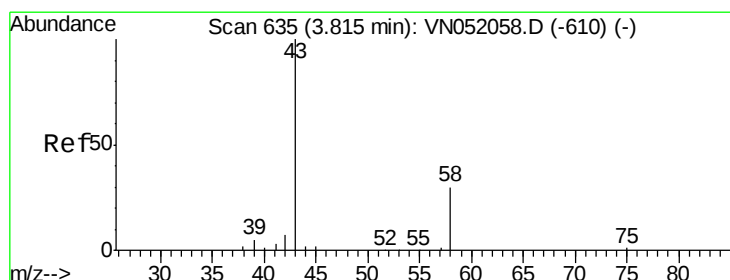
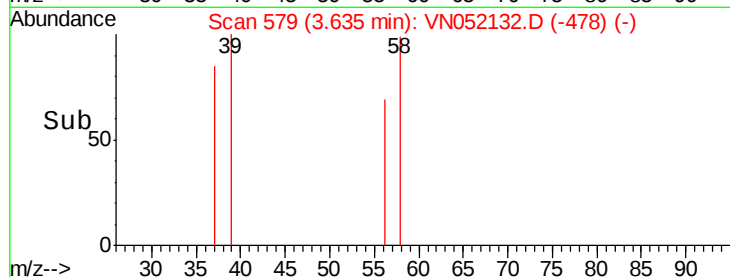
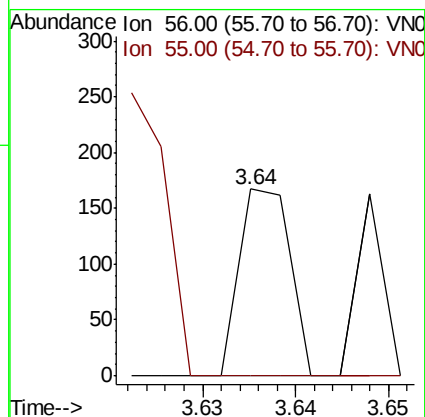
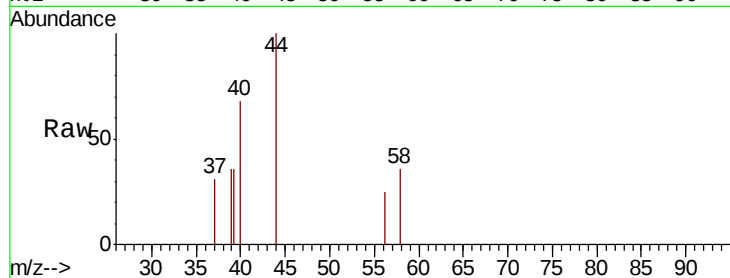
Instrument :
MSVOA_N
ClientSampled :
TP-11

Tot Ion: 56 Resp: 63

Ion Ratio Lower Upper

56 100

55 200.0 59.9 89.9#



#16

Acetone

Concen: 6.624 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052132.D

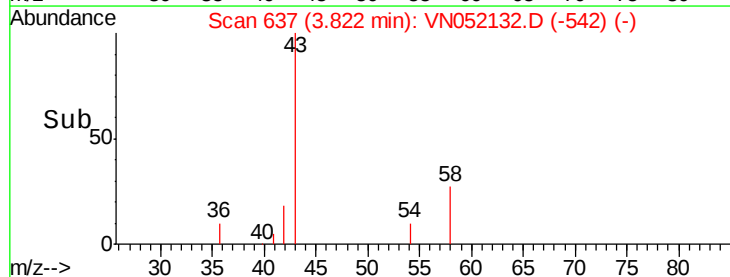
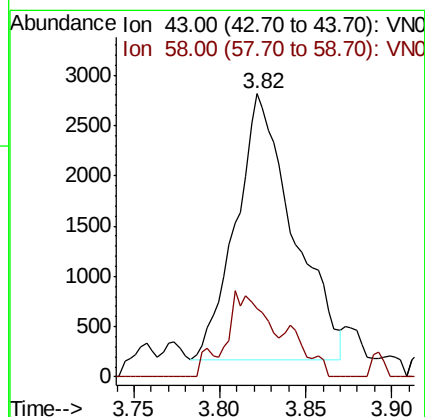
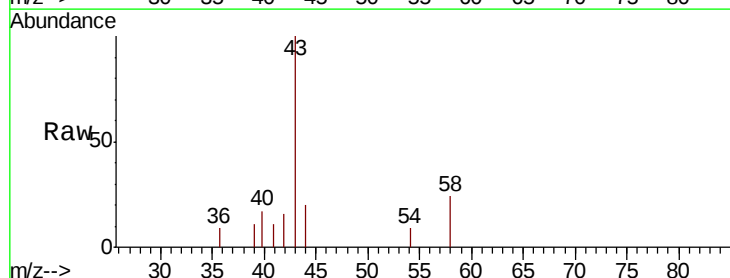
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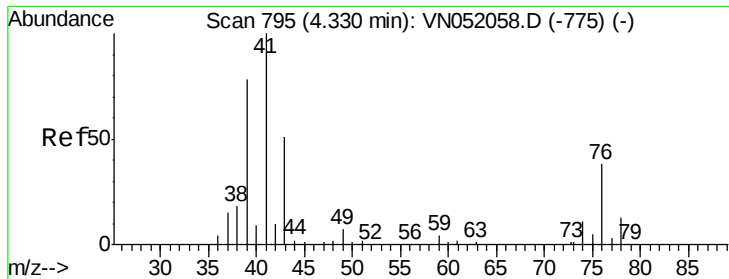
Tgt Ion: 43 Resp: 6111

Ion Ratio Lower Upper

43 100

58 25.6 24.2 36.2

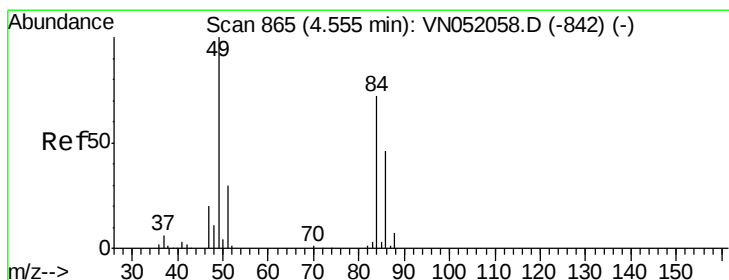
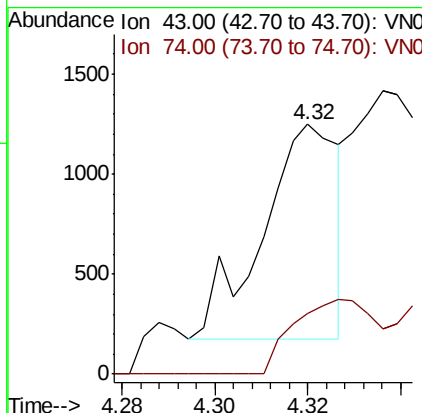
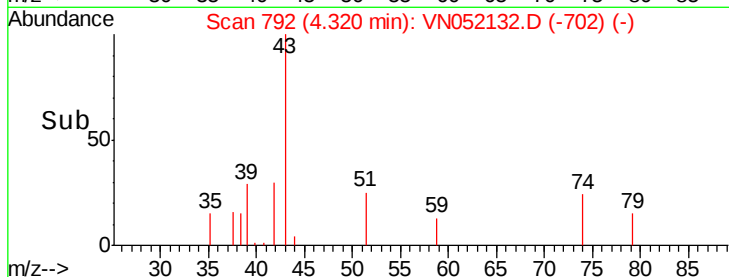
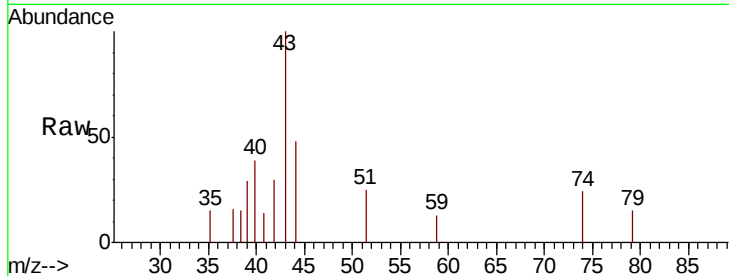




#18
Methyl Acetate
Concen: 0.415 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.01 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

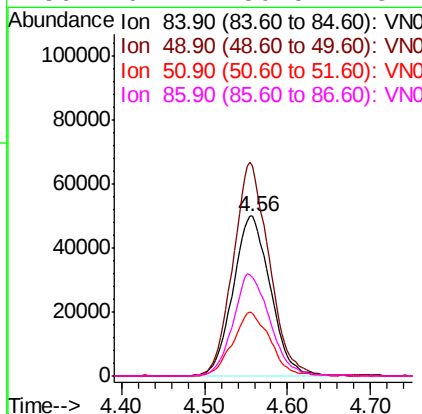
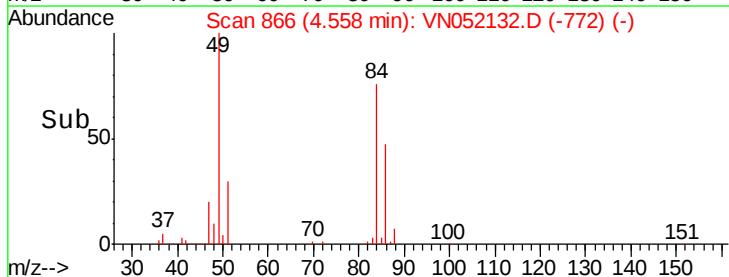
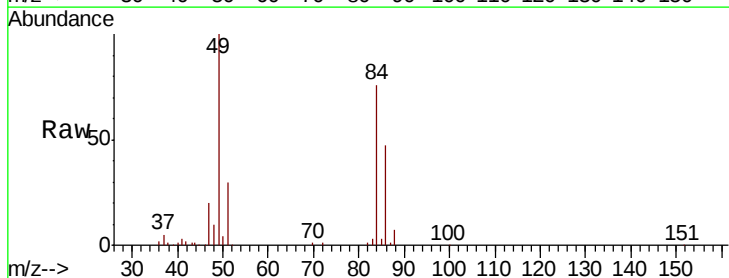
Instrument :
MSVOA_N
ClientSampled :
TP-11

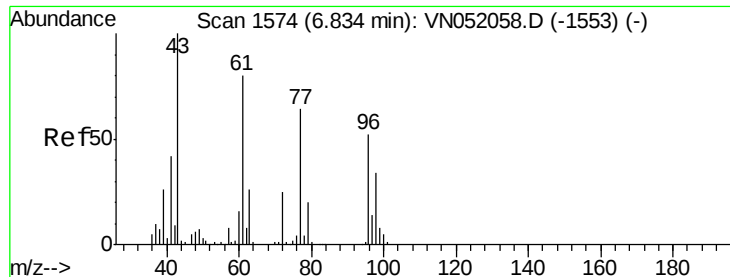
Tot Ion: 43 Resp: 1219
Ion Ratio Lower Upper
43 100
74 37.2 17.9 26.9#



#20
Methylene Chloride
Concen: 44.553 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

Tgt Ion: 84 Resp: 156625
Ion Ratio Lower Upper
84 100
49 131.0 110.6 165.8
51 39.1 33.7 50.5
86 61.7 50.5 75.7





#25

2-Butanone

Concen: 0.228 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

Instrument :

MSVOA_N

ClientSampled :

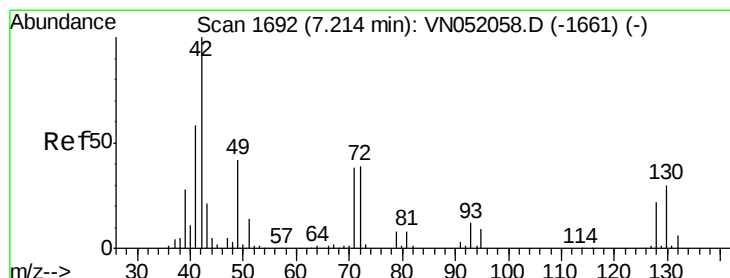
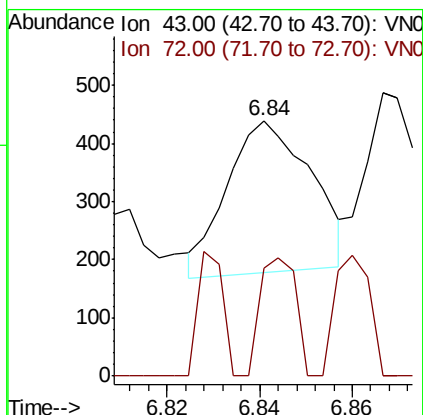
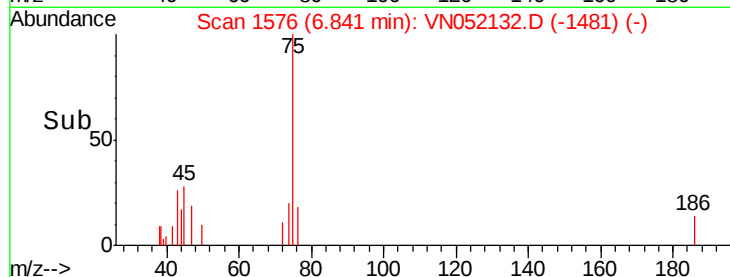
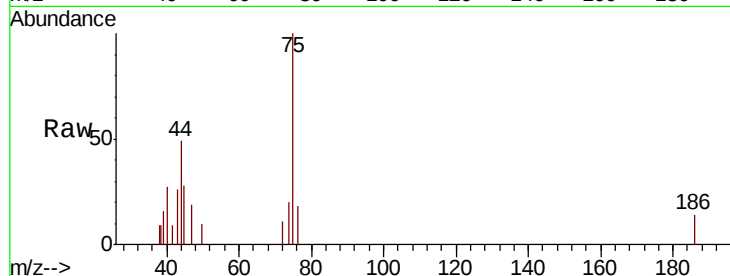
TP-11

Tot Ion: 43 Resp: 330

Ion Ratio Lower Upper

43 100

72 81.6 20.2 30.2#



#29

Tetrahydrofuran

Concen: 0.309 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

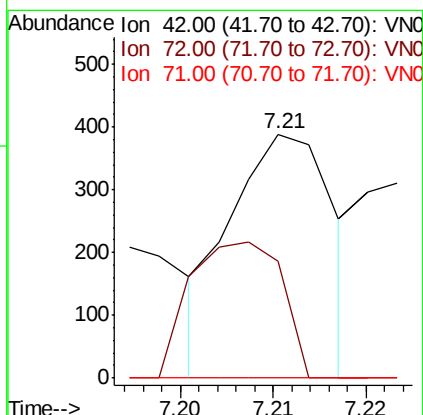
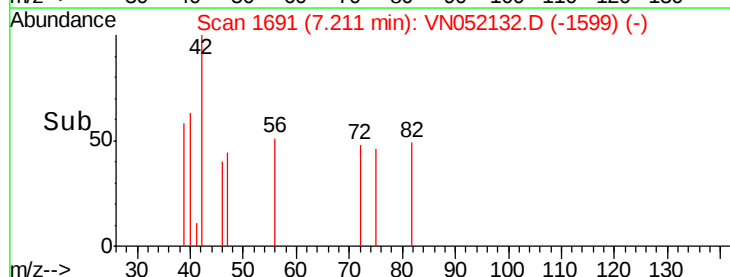
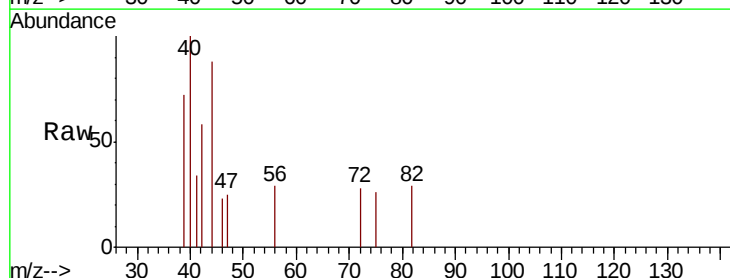
Tgt Ion: 42 Resp: 298

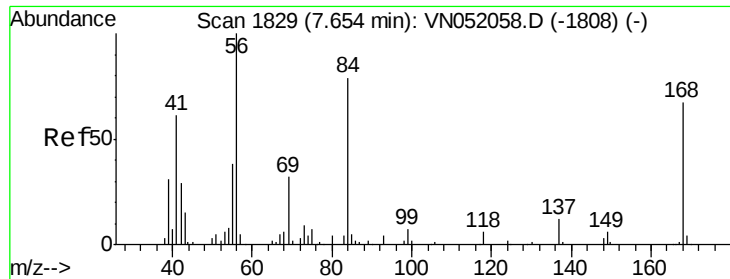
Ion Ratio Lower Upper

42 100

72 50.0 32.5 48.7#

71 0.0 30.6 46.0#

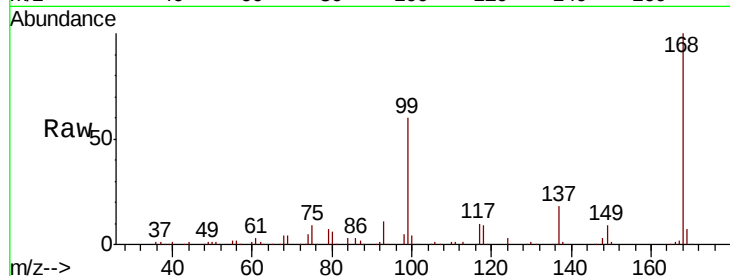




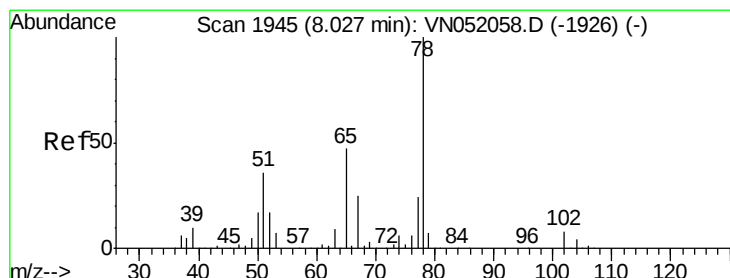
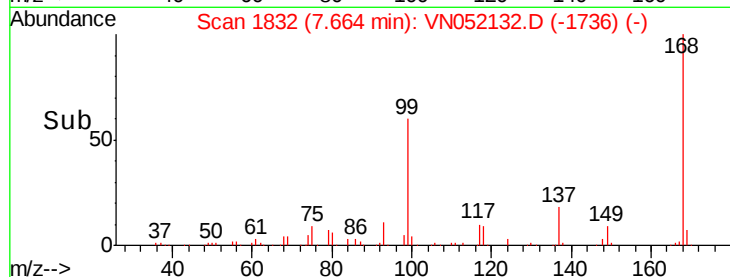
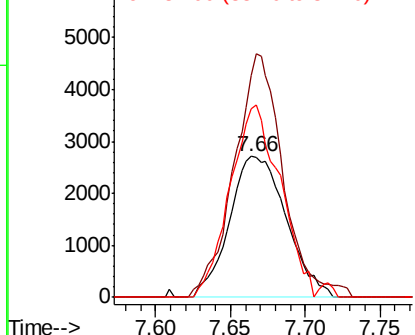
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

Instrument :
MSVOA_N
ClientSampled :
TP-11

Tot Ion: 56 Resp: 7169
Ion Ratio Lower Upper
56 100
69 157.2 25.8 38.6#
84 134.1 63.5 95.3#

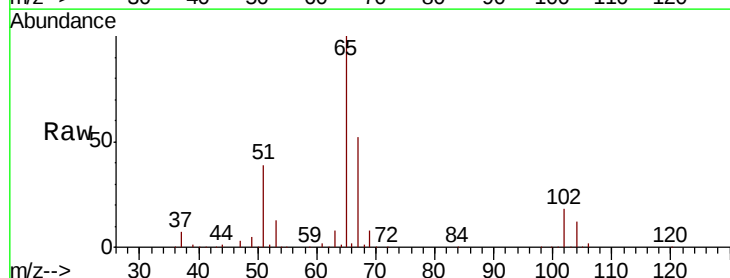


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

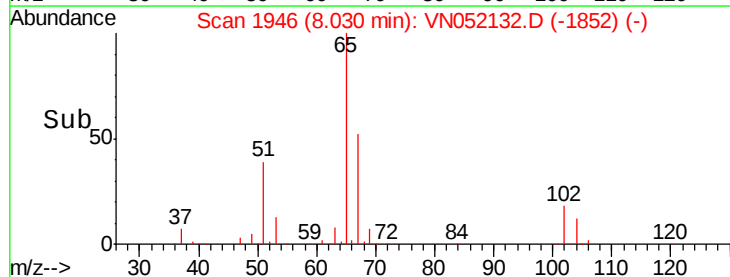
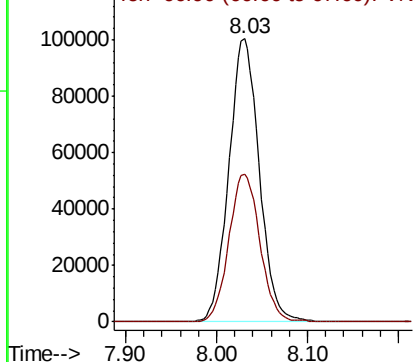


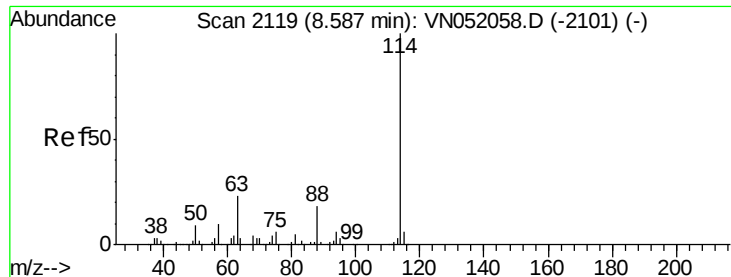
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

Tgt Ion: 65 Resp: 233710
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.2



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

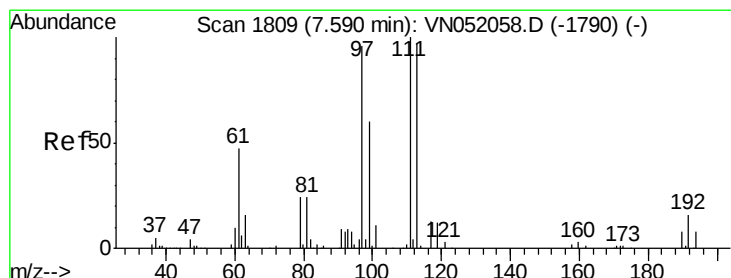
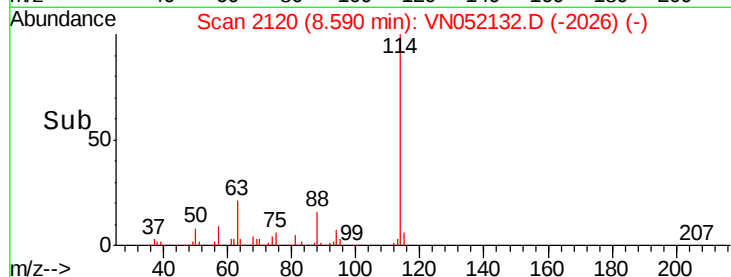
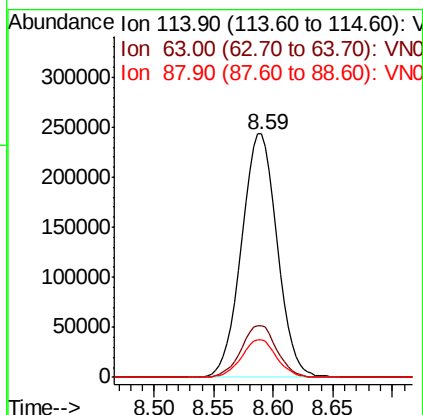
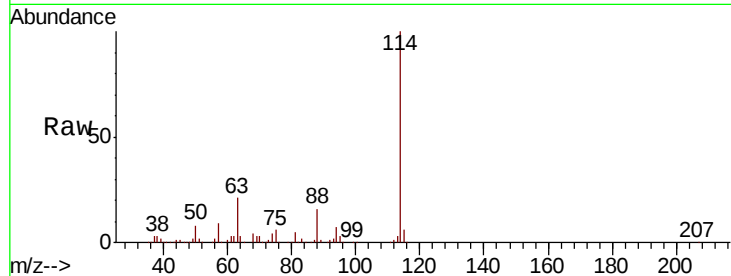




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN052132.D
 Acq: 2 Nov 2018 16:37

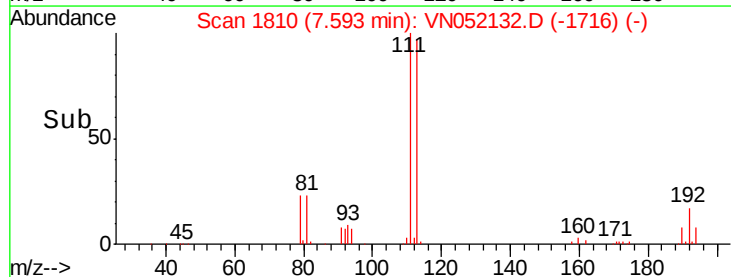
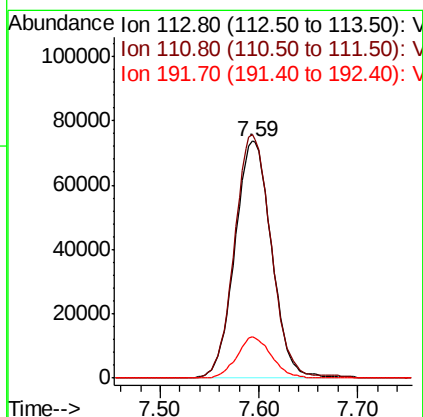
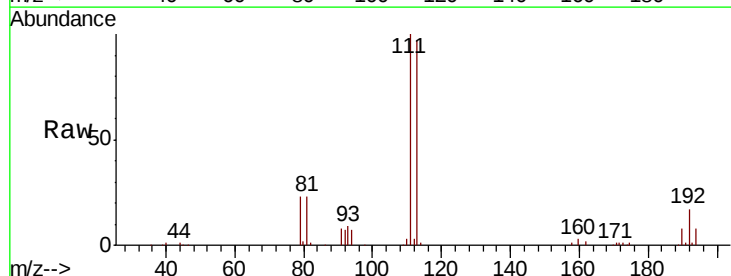
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-11

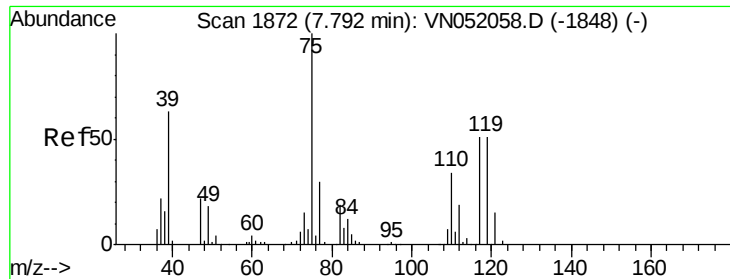
Tot Ion:114 Resp: 505546
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 46.0
 88 15.7 0.0 35.4



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052132.D
 Acq: 2 Nov 2018 16:37

Tgt Ion:113 Resp: 189011
 Ion Ratio Lower Upper
 113 100
 111 102.3 83.1 124.7
 192 16.3 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.666 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

Instrument :

MSVOA_N

ClientSampleId :

TP-11

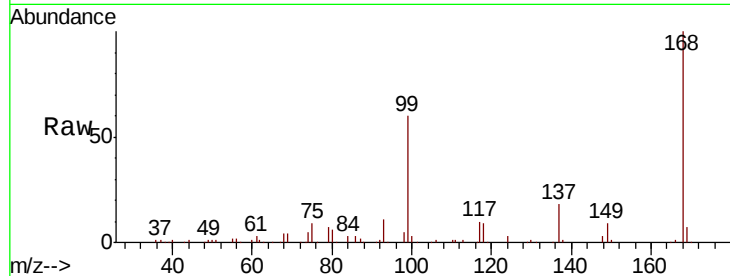
Tot Ion: 75 Resp: 23984

Ion Ratio Lower Upper

75 100

110 8.5 16.0 48.0#

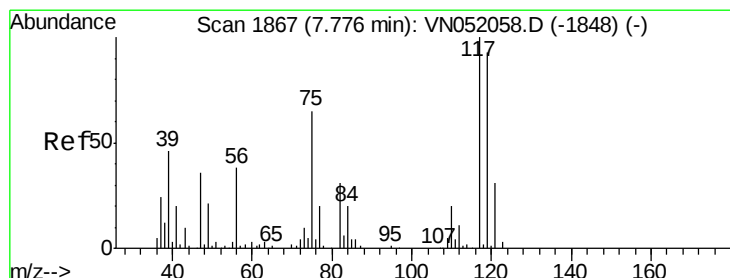
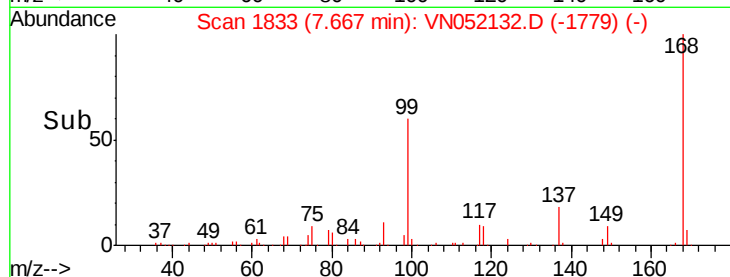
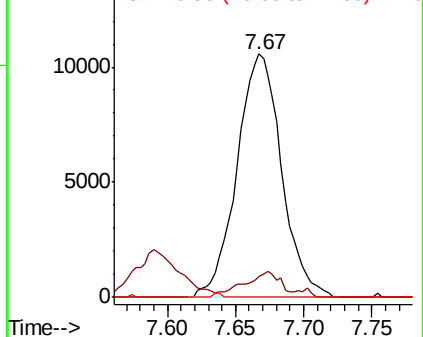
77 0.0 24.5 36.7#



Abundance Ion 74.90 (74.60 to 75.60): VN052058.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN052058.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN052058.D (-1848) (-)



#38

Carbon Tetrachloride

Concen: 5.954 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

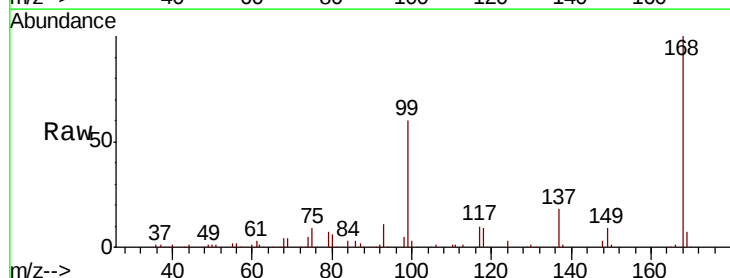
Tgt Ion: 117 Resp: 26390

Ion Ratio Lower Upper

117 100

119 5.1 74.8 112.2#

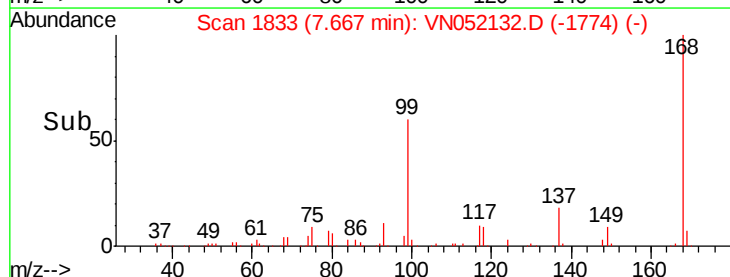
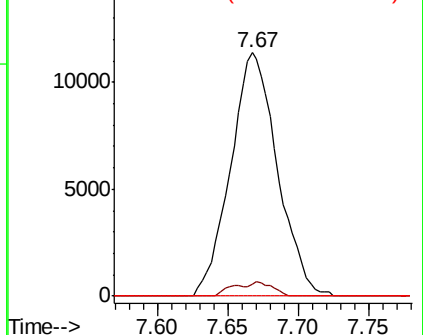
121 0.0 25.1 37.7#

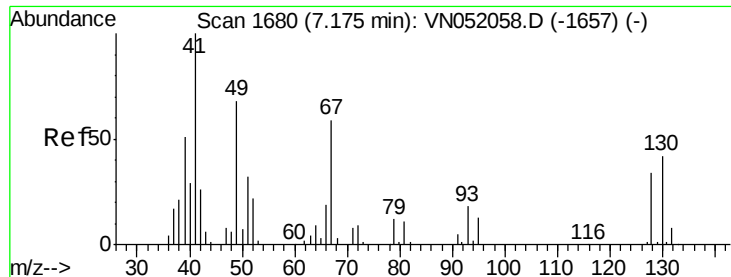


Abundance Ion 116.80 (116.50 to 117.50): VN052058.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN052058.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN052058.D (-1848) (-)

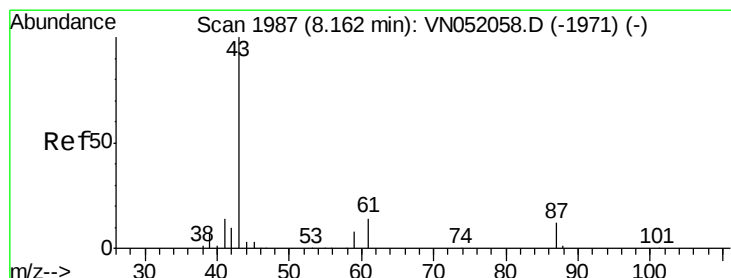
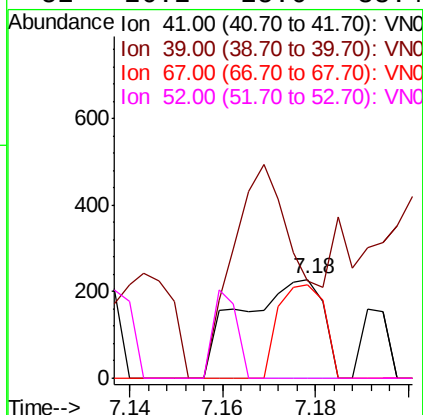
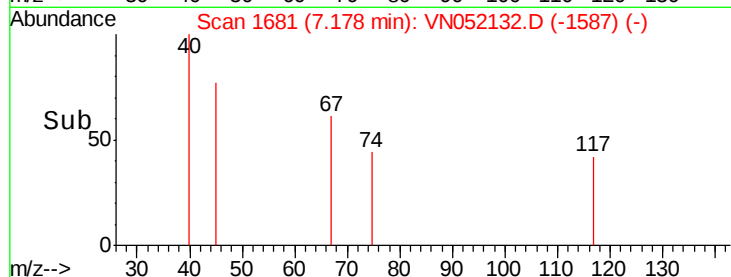
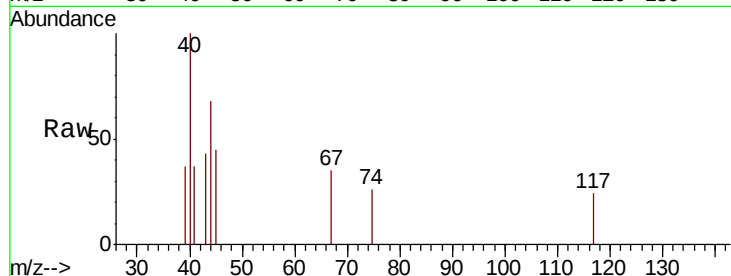




#41
Methacrylonitrile
Concen: 0.299 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

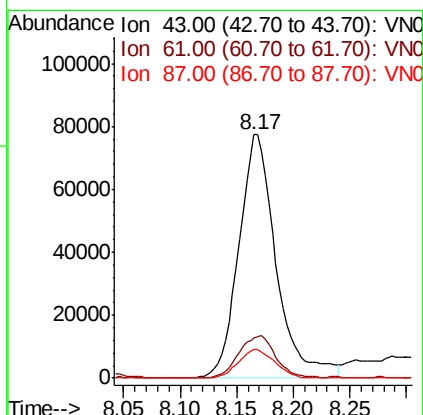
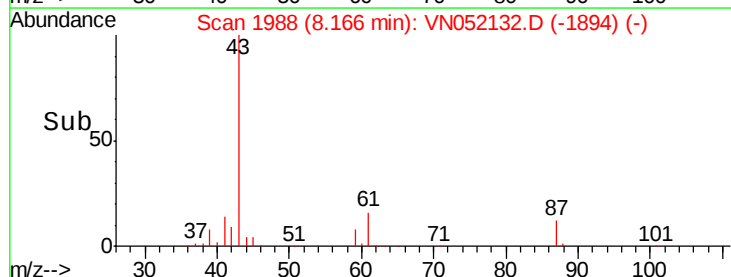
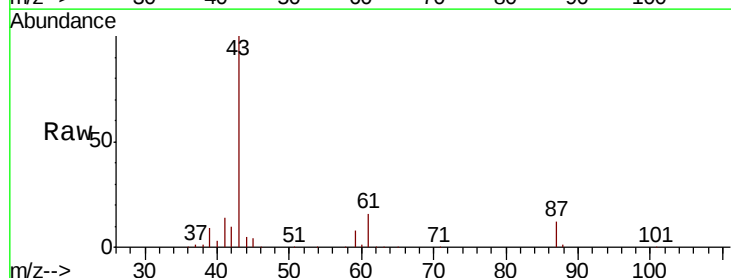
Instrument :
MSVOA_N
ClientSampled :
TP-11

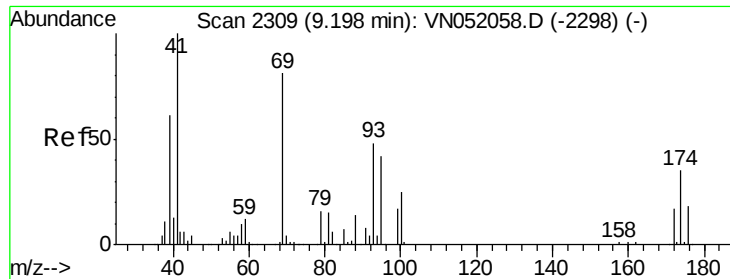
Tot Ion: 41 Resp: 279
Ion Ratio Lower Upper
41 100
39 176.0 33.2 49.8#
67 53.4 63.5 95.3#
52 26.2 25.6 38.4



#43
Isopropyl Acetate
Concen: 28.847 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

Tgt Ion: 43 Resp: 176528
Ion Ratio Lower Upper
43 100
61 17.4 15.4 23.0
87 11.5 9.8 14.8

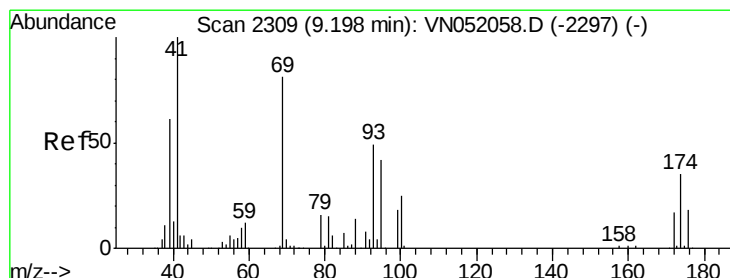
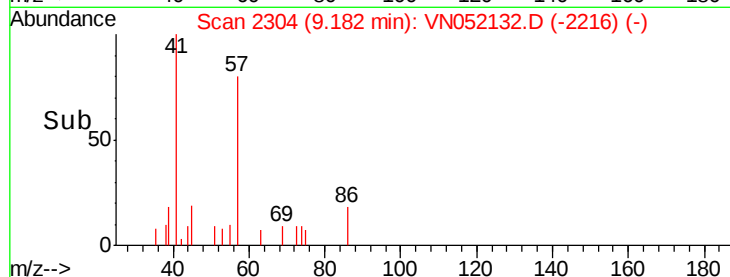
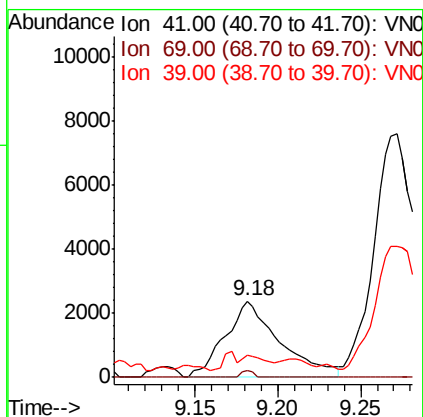
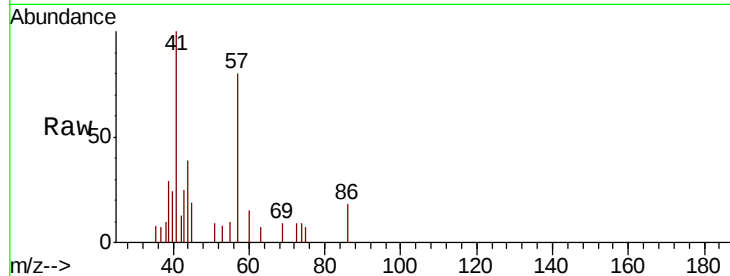




#48
Methvl methacrylate
Concen: 1.758 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

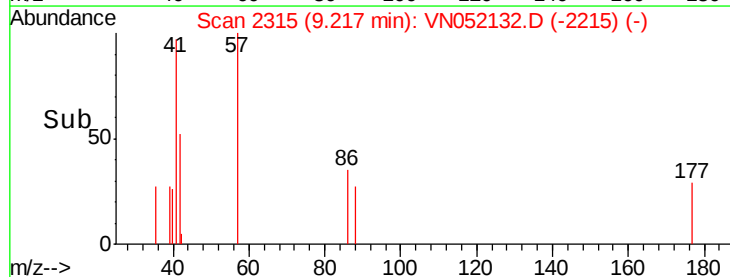
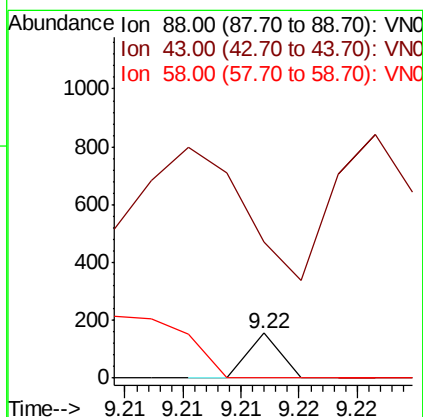
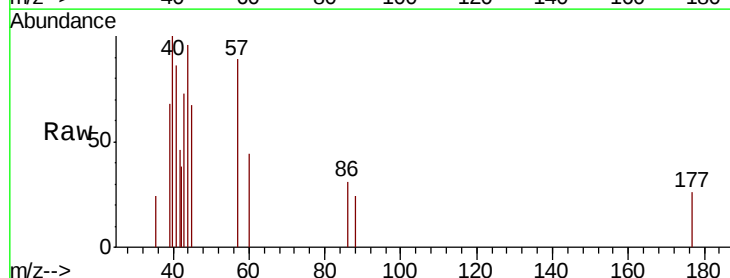
Instrument :
MSVOA_N
ClientSampled :
TP-11

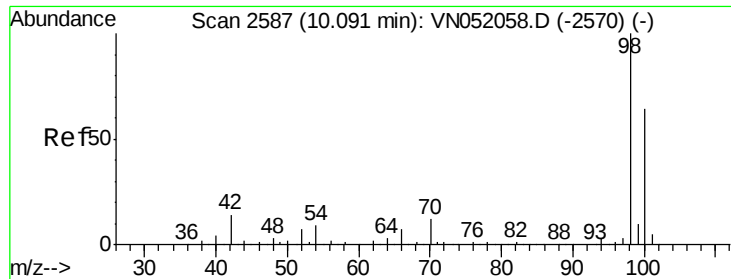
Tot Ion: 41 Resp: 5453
Ion Ratio Lower Upper
41 100
69 2.0 67.1 100.7#
39 4.9 50.5 75.7#



#49
1,4-Dioxane
Concen: 26.185 ug/l
RT: 9.22 min Scan# 2315
Delta R.T. 0.02 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

Tgt Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 34.1 51.1#
58 473.3 62.8 94.2#





#50

Toluene-d8

Concen: 26.185 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

Instrument :

MSVOA_N

ClientSampled :

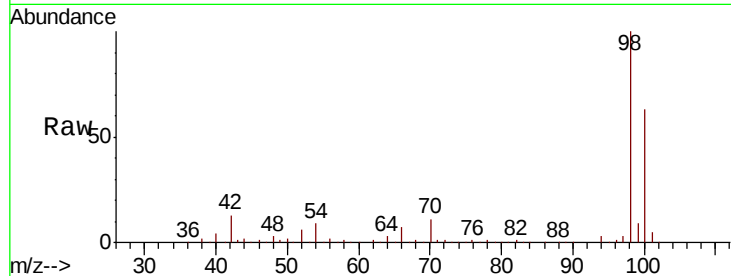
TP-11

Tot Ion: 98 Resp: 757067

Ion Ratio Lower Upper

98 100

100 62.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN052058.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052058.D (-2570) (-)

10.09

400000

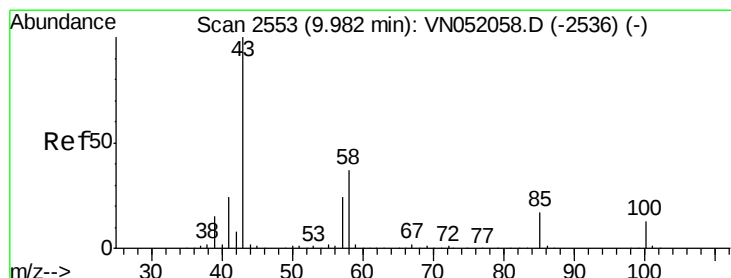
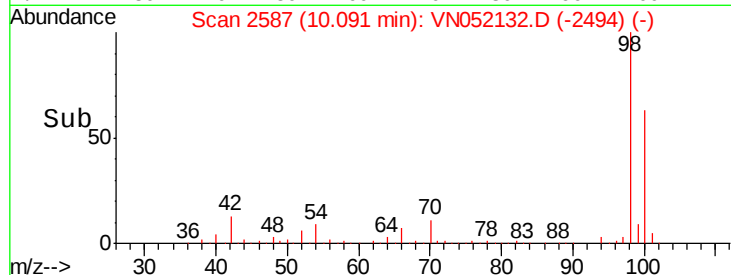
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.498 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN052132.D

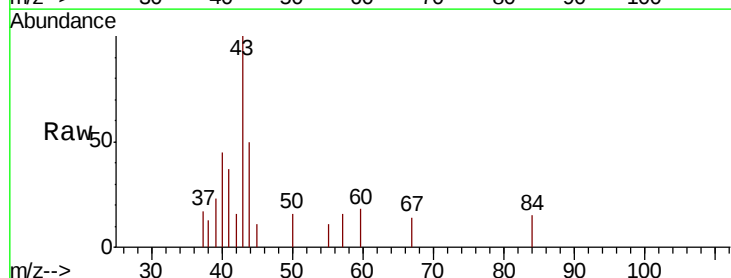
Acq: 2 Nov 2018 16:37

Tgt Ion: 43 Resp: 1657

Ion Ratio Lower Upper

43 100

58 13.9 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN052058.D (-2536) (-)

Ion 58.00 (57.70 to 58.70): VN052058.D (-2536) (-)

9.99

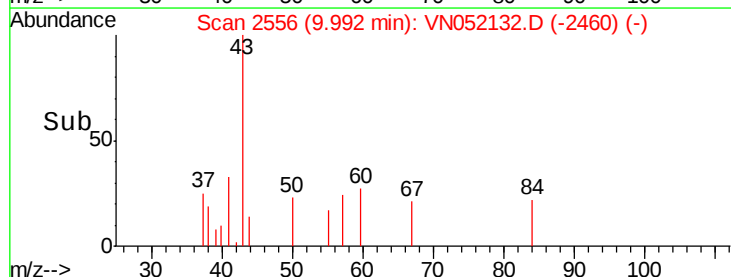
1500

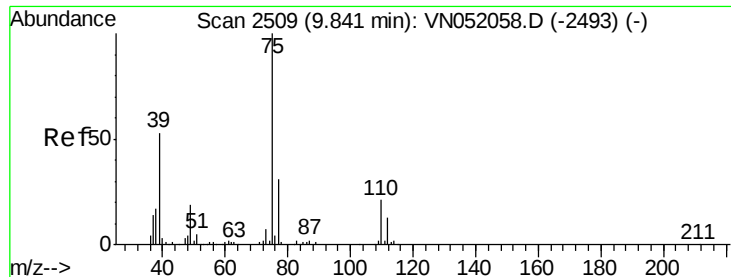
1000

500

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 0.217 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.06 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

Instrument :

MSVOA_N

ClientSampled :

TP-11

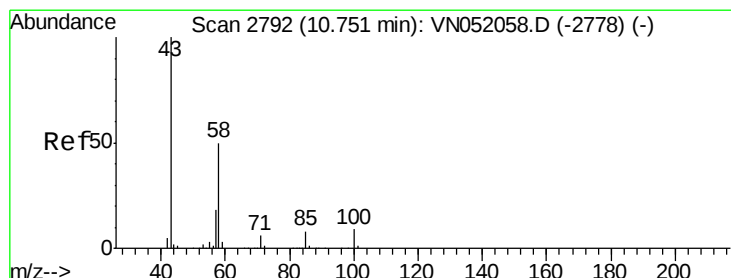
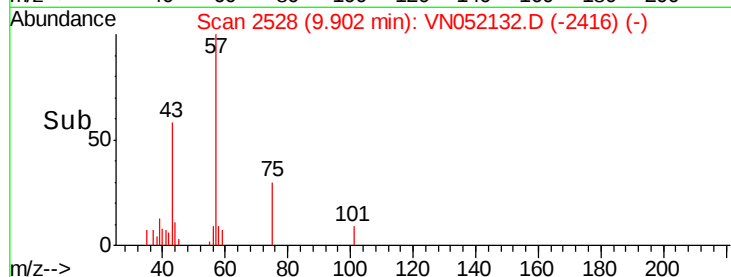
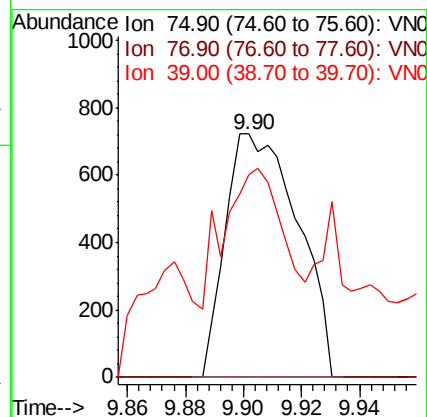
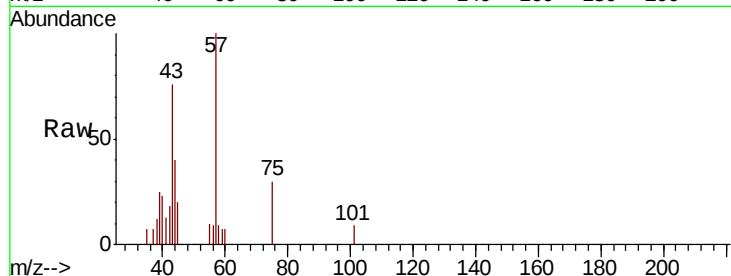
Tot Ion: 75 Resp: 1257

Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 51.9 42.3 63.5



#59

2-Hexanone

Concen: 4.237 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.02 min

Lab File: VN052132.D

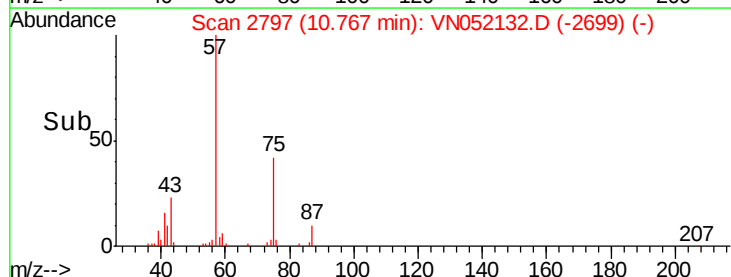
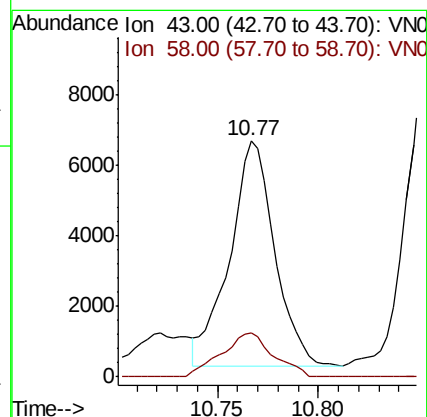
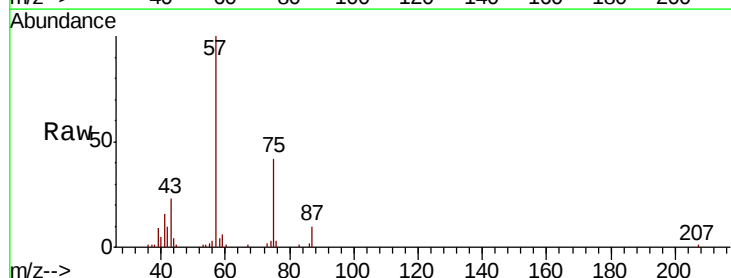
Acq: 2 Nov 2018 16:37

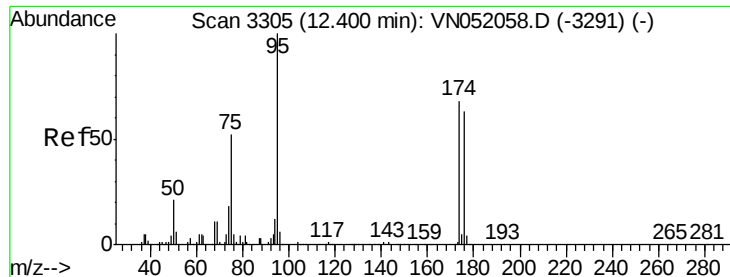
Tgt Ion: 43 Resp: 10044

Ion Ratio Lower Upper

43 100

58 22.2 25.2 75.6#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

Instrument :

MSVOA_N

ClientSampled :

TP-11

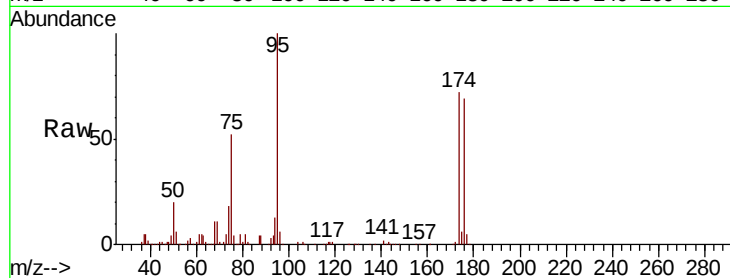
Tot Ion: 95 Resp: 254461

Ion Ratio Lower Upper

95 100

174 71.5 0.0 131.8

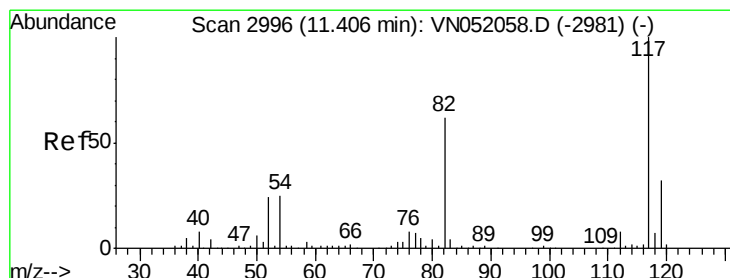
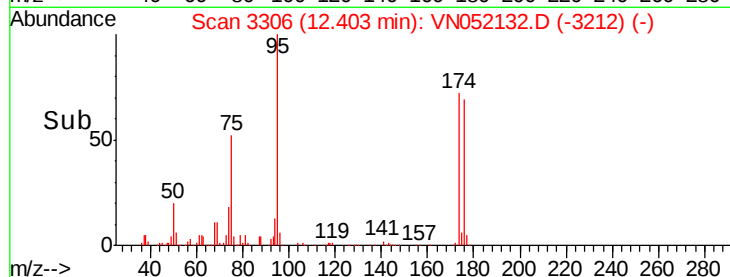
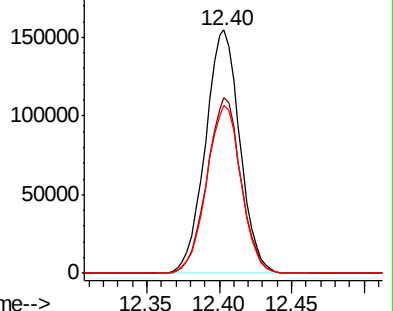
176 69.0 0.0 126.0



Abundance Ion 94.90 (94.60 to 95.60): VN052058.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN052058.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN052058.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

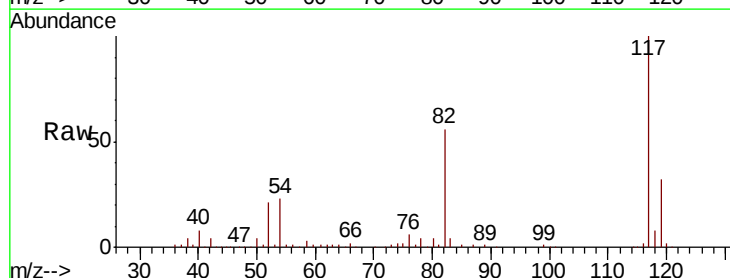
Tgt Ion: 117 Resp: 476781

Ion Ratio Lower Upper

117 100

82 56.2 49.9 74.9

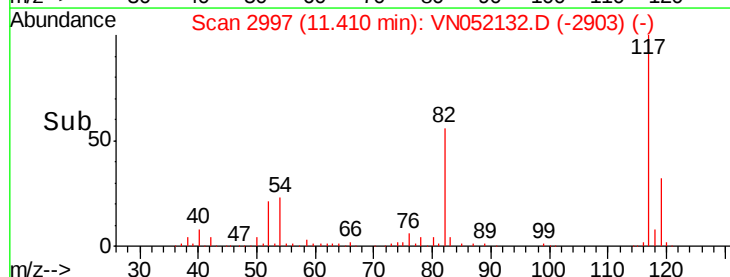
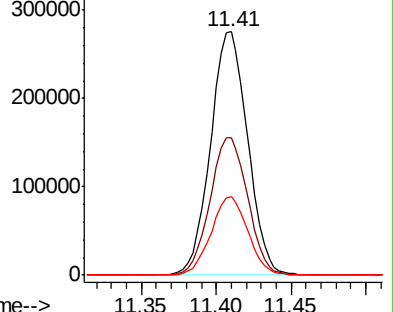
119 32.4 25.7 38.5

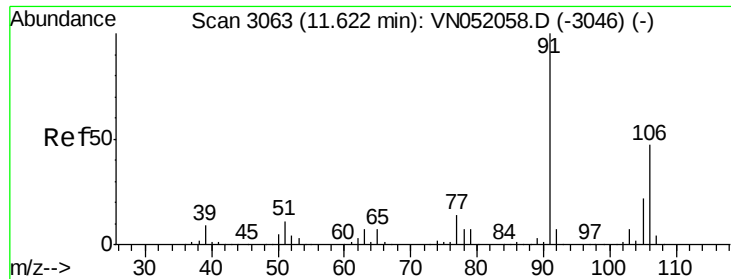


Abundance Ion 116.90 (116.60 to 117.60): VN052058.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052058.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052058.D (-2981) (-)

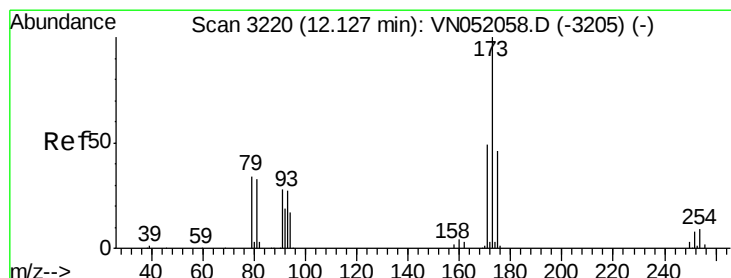
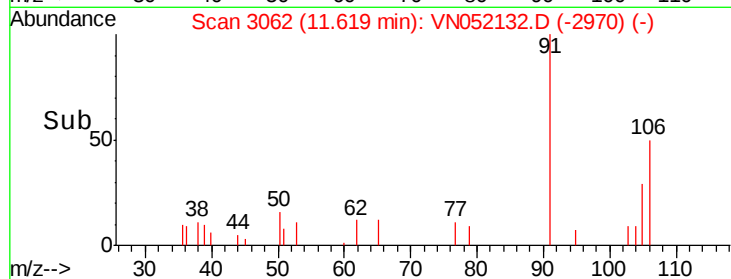
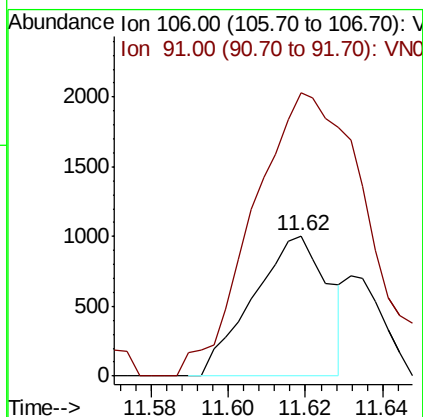
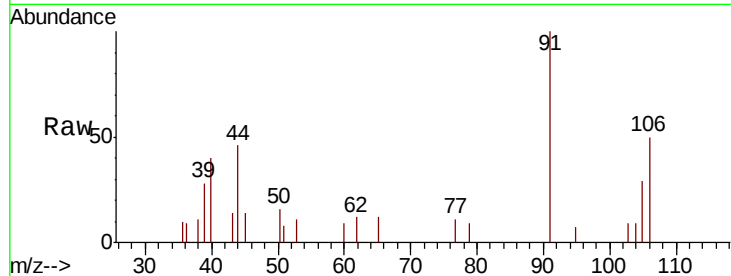




#68
m/p-Xvlenes
Concen: 0.212 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

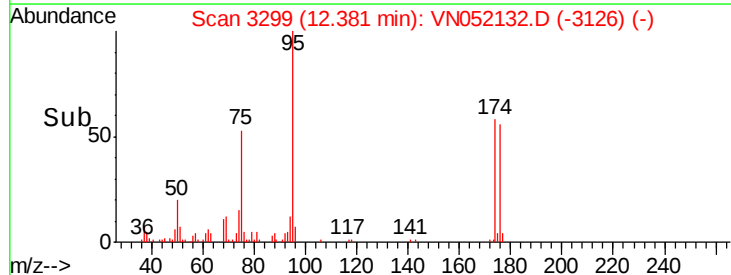
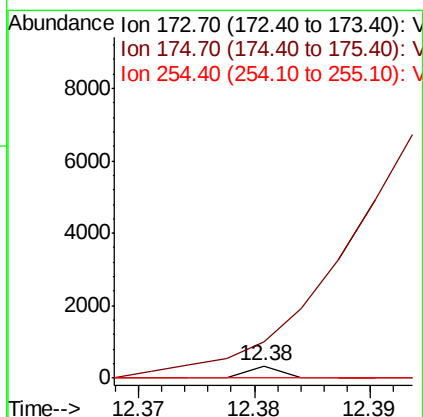
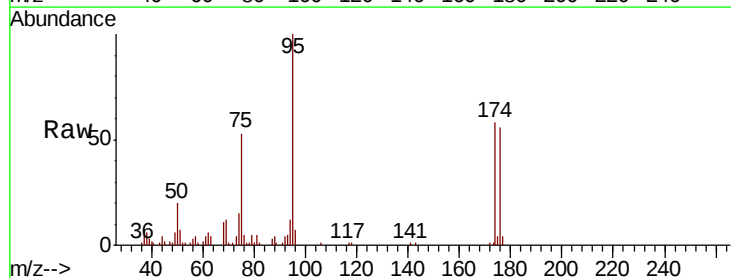
Instrument :
MSVOA_N
ClientSampled :
TP-11

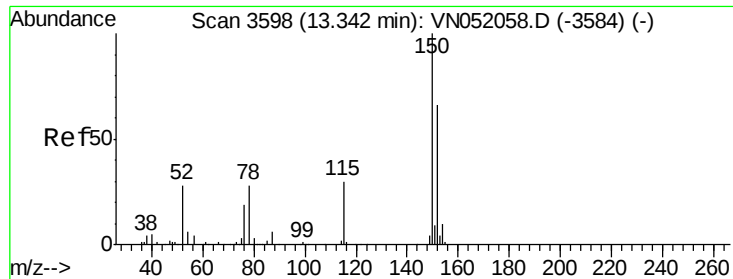
Tot Ion:106 Resp: 1357
Ion Ratio Lower Upper
106 100
91 301.5 168.7 253.1#



#71
Bromoform
Concen: 2.209 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.25 min
Lab File: VN052132.D
Acq: 2 Nov 2018 16:37

Tgt Ion:173 Resp: 66
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.7#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

Instrument :

MSVOA_N

ClientSampled :

TP-11

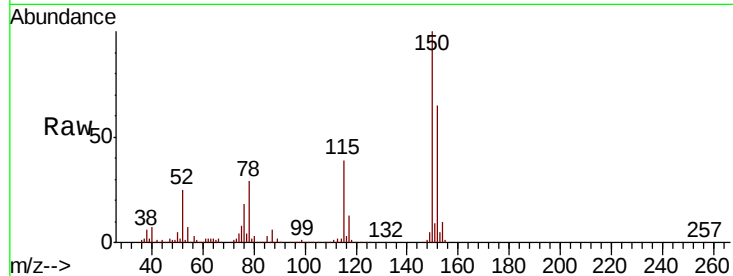
Tot Ion:152 Resp: 193298

Ion Ratio Lower Upper

152 100

115 62.6 31.6 95.0

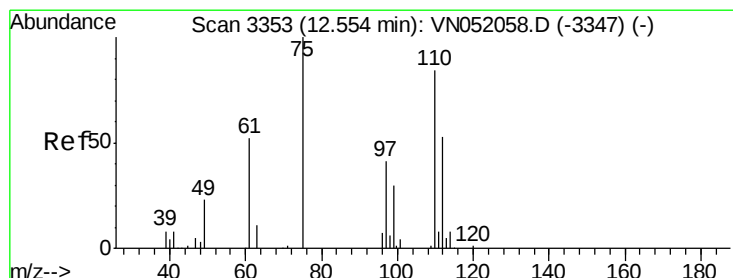
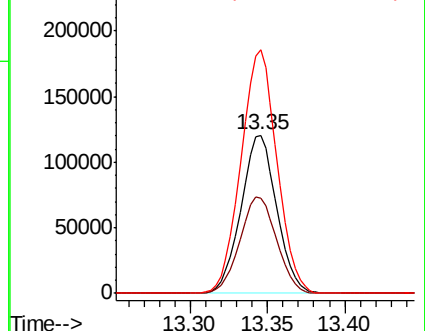
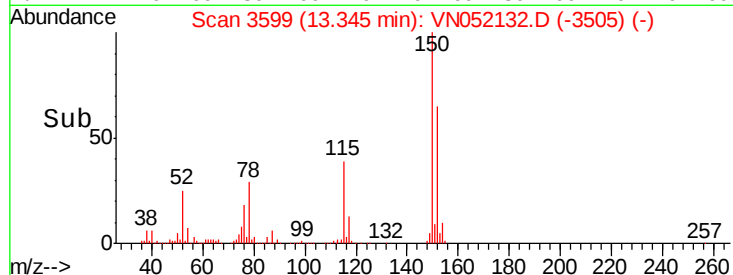
150 155.1 0.0 345.0



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: 37.568 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052132.D

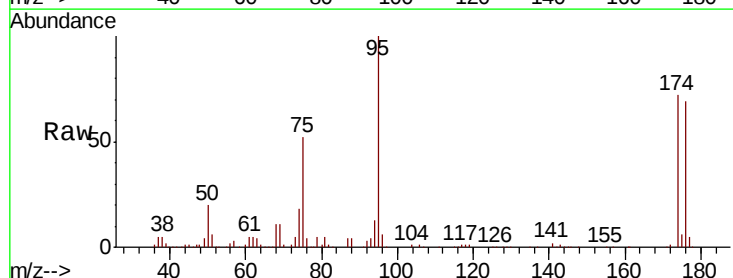
Acq: 2 Nov 2018 16:37

Tgt Ion: 75 Resp: 132929

Ion Ratio Lower Upper

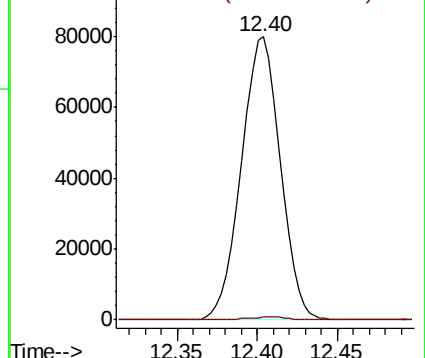
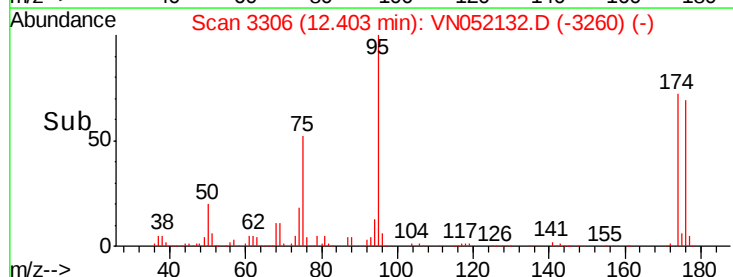
75 100

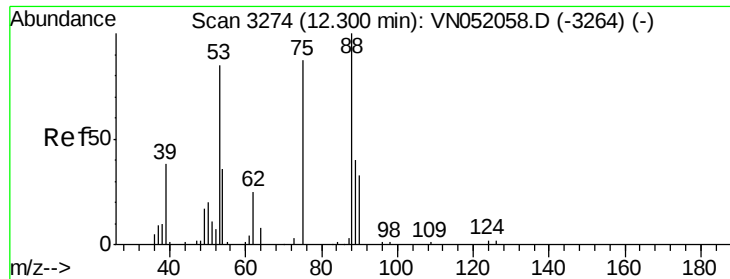
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 124.693 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

Instrument :

MSVOA_N

ClientSampleId :

TP-11

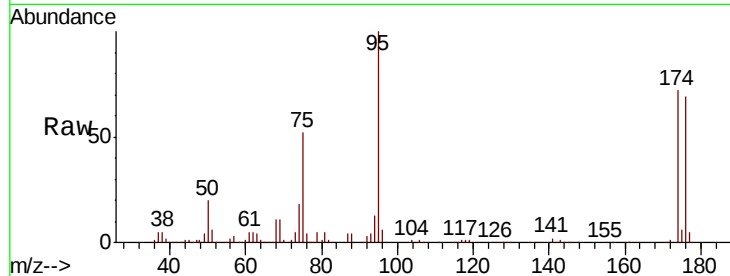
Tot Ion: 75 Resp: 132929

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

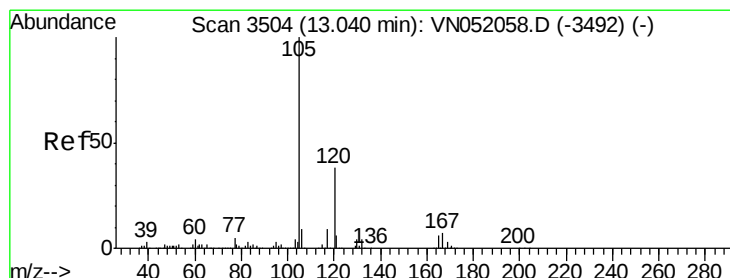
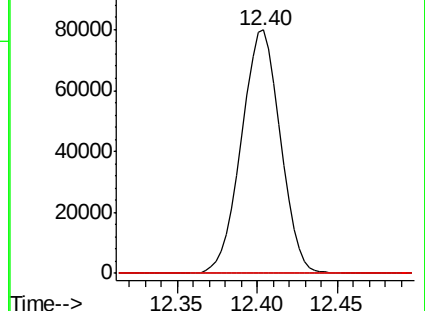
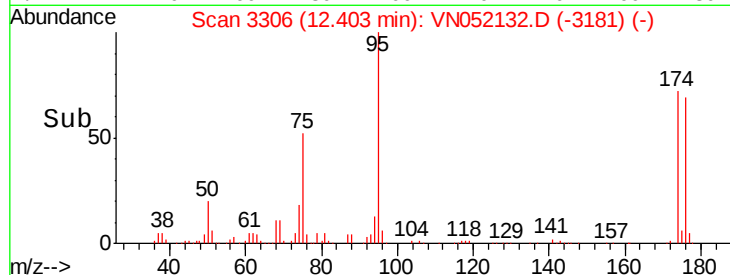
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN052132.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN052132.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN052132.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.423 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN052132.D

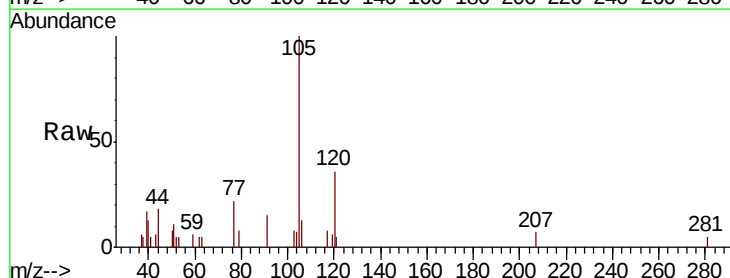
Acq: 2 Nov 2018 16:37

Tgt Ion: 105 Resp: 5664

Ion Ratio Lower Upper

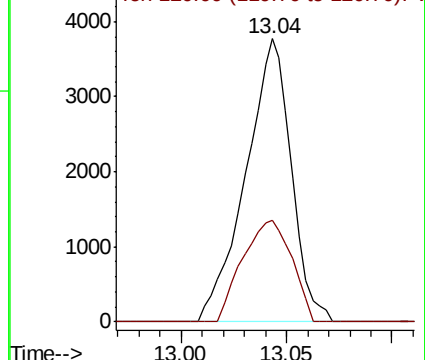
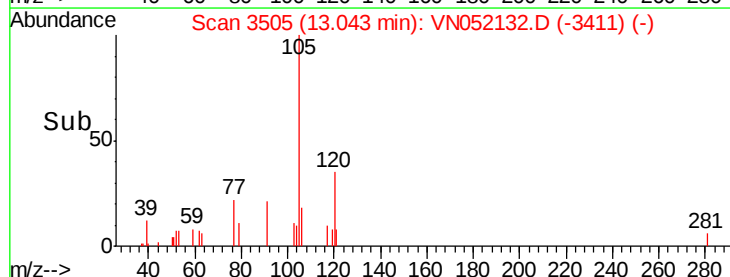
105 100

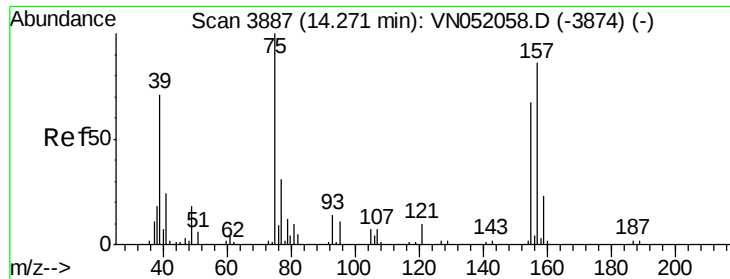
120 38.7 21.9 65.5



Abundance Ion 105.00 (104.70 to 105.70): VN052132.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN052132.D (-3411) (-)





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.975 ug/l

RT: 14.36 min Scan# 3914

Delta R.T. 0.09 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

Instrument :

MSVOA_N

ClientSampled :

TP-11

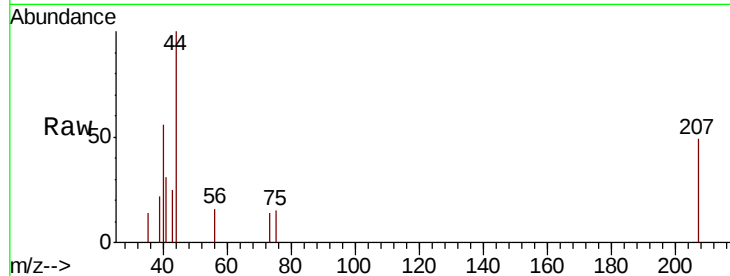
Tot Ion: 75 Resp: 33

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

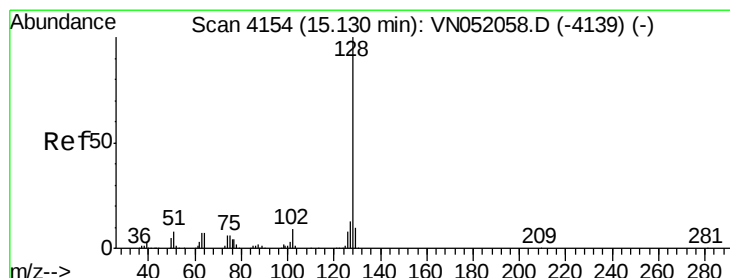
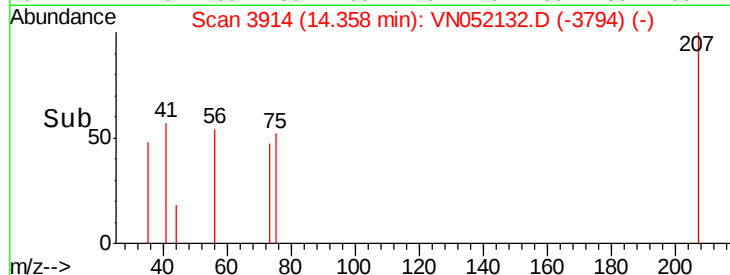
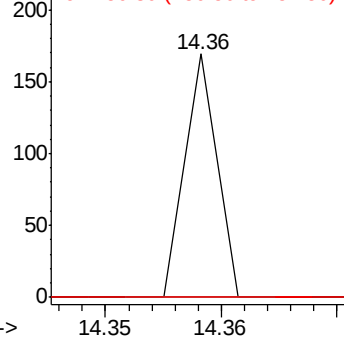
157 0.0 42.1 126.4#



Abundance Ion 74.90 (74.60 to 75.60): VN

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 0.336 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN052132.D

Acq: 2 Nov 2018 16:37

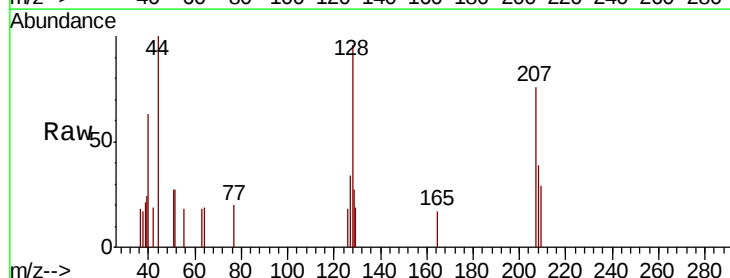
Tgt Ion: 128 Resp: 1859

Ion Ratio Lower Upper

128 100

127 18.0 10.5 15.7#

129 6.7 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

