

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052377.D
 Acq On : 19 Nov 2018 11:01
 Operator : MD\SY
 Sample : VN1119WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBL01

Quant Time: Nov 20 07:09:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	301287	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	490912	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	396635	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	131937	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	212458	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
35) Dibromofluoromethane	7.59	113	160779	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
50) Toluene-d8	10.09	98	611466	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
62) 4-Bromofluorobenzene	12.40	95	172166	42.02	ug/l	0.00
Spiked Amount			Recovery	=	84.04%	

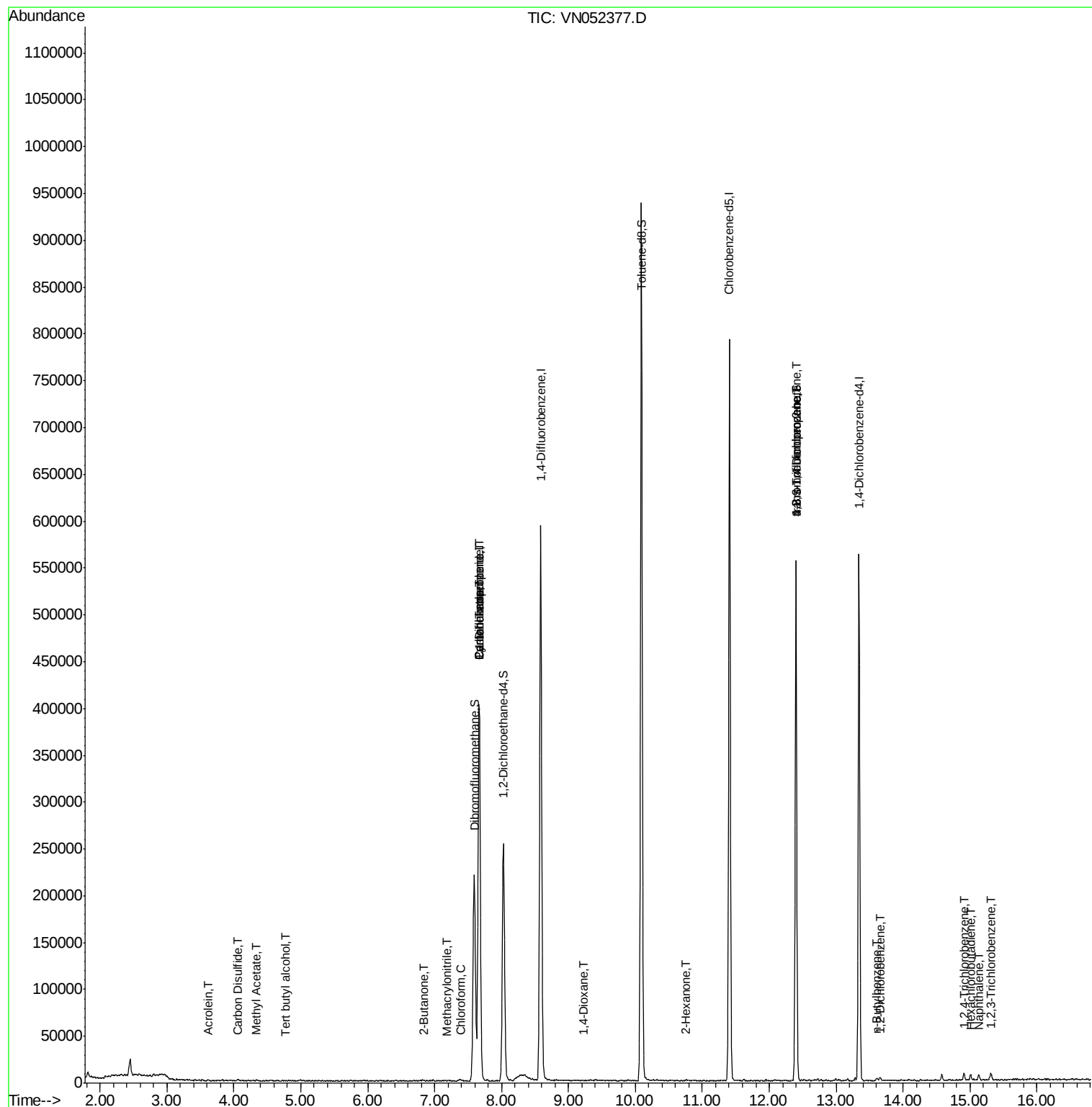
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	63	0.280	ug/l #	72
13) Acrolein	3.61	56	127	22.112	ug/l #	83
17) Carbon Disulfide	4.06	76	2326	0.262	ug/l #	74
18) Methyl Acetate	4.33	43	829	0.682	ug/l #	57
20) Methylene Chloride	4.55	84	235	Below Cal	#	10
25) 2-Butanone	6.84	43	352	0.213	ug/l #	52
30) Chloroform	7.38	83	1453	0.219	ug/l	98
31) Cyclohexane	7.66	56	9393	0.400	ug/l #	42
36) 1,1-Dichloropropene	7.67	75	27959	5.682	ug/l #	51
38) Carbon Tetrachloride	7.67	117	31272	6.918	ug/l #	15
41) Methacrylonitrile	7.18	41	164	3.772	ug/l #	100
49) 1,4-Dioxane	9.23	88	30	1.118	ug/l #	20
59) 2-Hexanone	10.76	43	1174	0.492	ug/l #	64
76) 1,2,3-Trichloropropane	12.40	75	96577	43.139	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	96577	139.918	ug/l #	5
89) n-Butylbenzene	13.61	91	1783	0.242	ug/l	82
91) 1,2-Dichlorobenzene	13.65	146	1254	0.295	ug/l	93
93) 1,2,4-Trichlorobenzene	14.91	180	2026	3.236	ug/l	93
94) Hexachlorobutadiene	15.01	225	1069	1.100	ug/l #	63
95) Naphthalene	15.13	128	4510	3.520	ug/l	95
96) 1,2,3-Trichlorobenzene	15.32	180	2044	1.267	ug/l	79

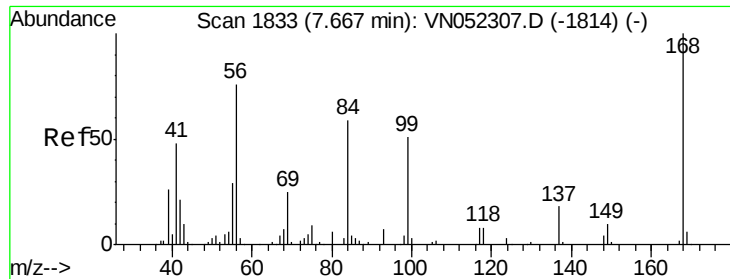
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampleId :

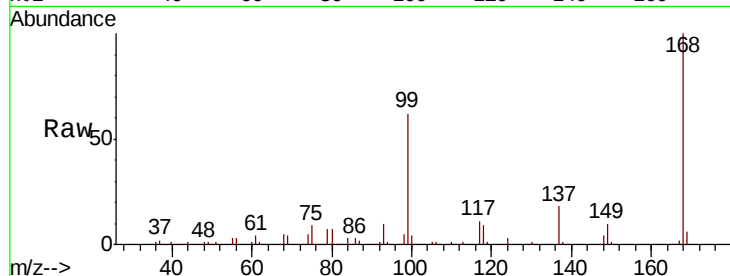
VN1119WBL01

Tot Ion:168 Resp: 301287

Ion Ratio Lower Upper

168 100

99 62.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052377.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052377.D (-1740) (-)

7.67

150000

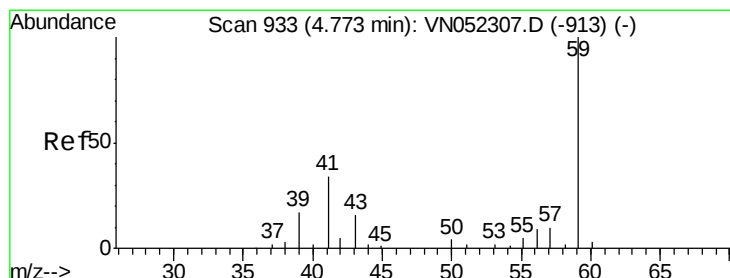
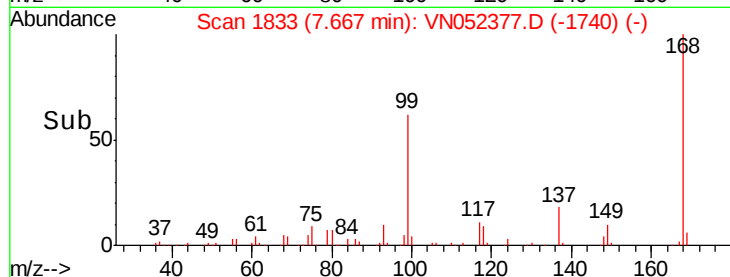
100000

50000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.280 ug/l

RT: 4.78 min Scan# 934

Delta R.T. 0.00 min

Lab File: VN052377.D

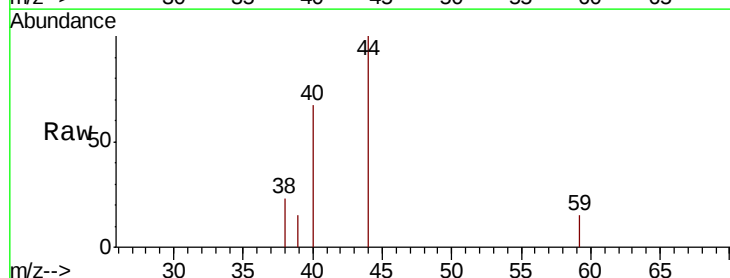
Acq: 19 Nov 2018 11:01

Tgt Ion: 59 Resp: 63

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052377.D (-840) (-)

Ion 57.00 (56.70 to 57.70): VN052377.D (-840) (-)

4.78

150

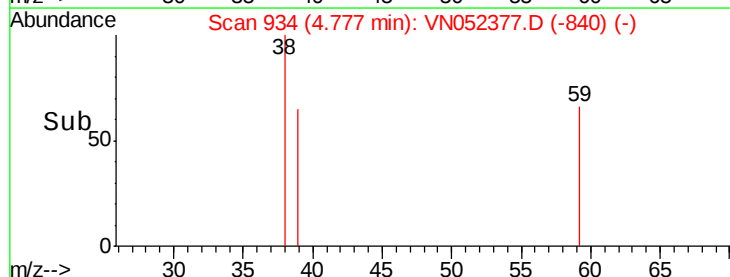
100

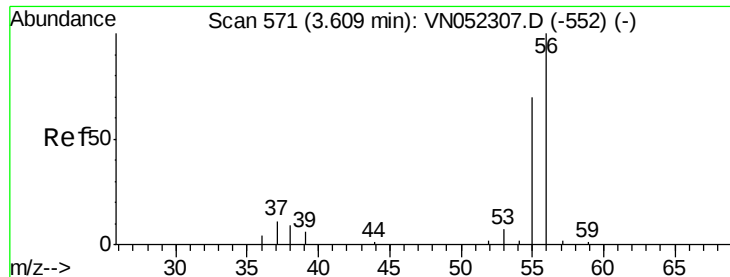
50

0

4.77 4.78 4.79

Time-->





#13

Acrolein

Concen: 22.112 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampleId :

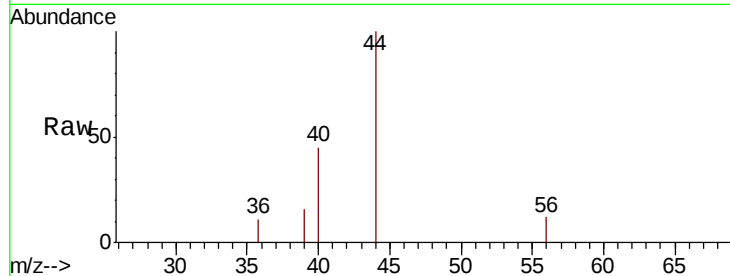
VN1119WBL01

Tot Ion: 56 Resp: 127

Ion Ratio Lower Upper

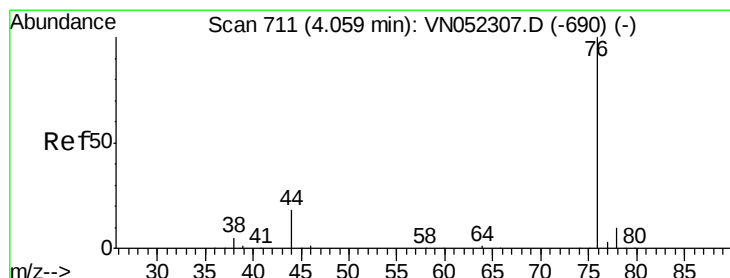
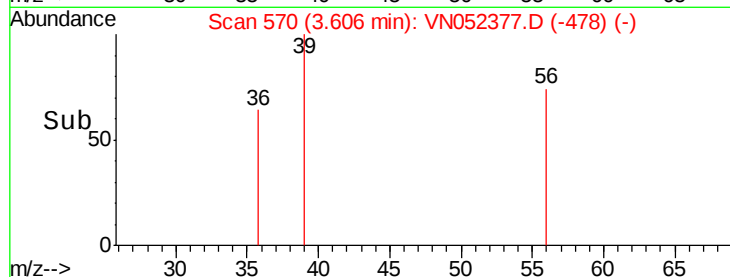
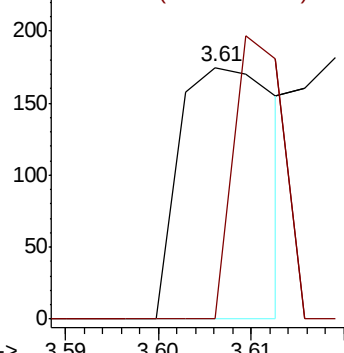
56 100

55 57.5 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#17

Carbon Disulfide

Concen: 0.262 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.00 min

Lab File: VN052377.D

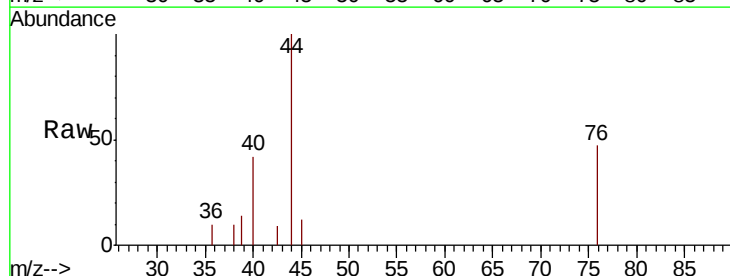
Acq: 19 Nov 2018 11:01

Tgt Ion: 76 Resp: 2326

Ion Ratio Lower Upper

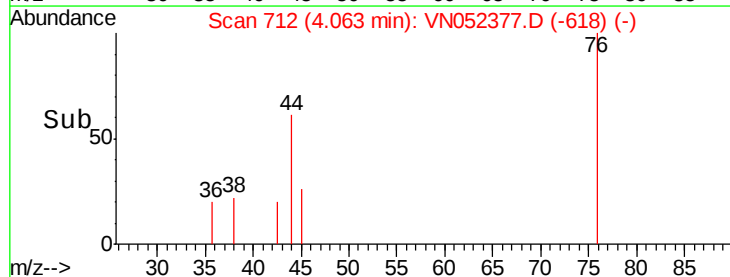
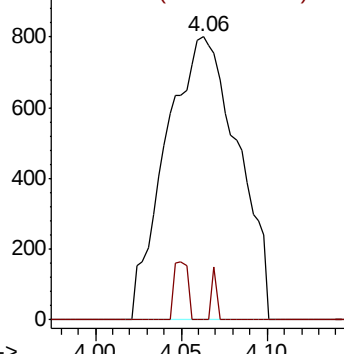
76 100

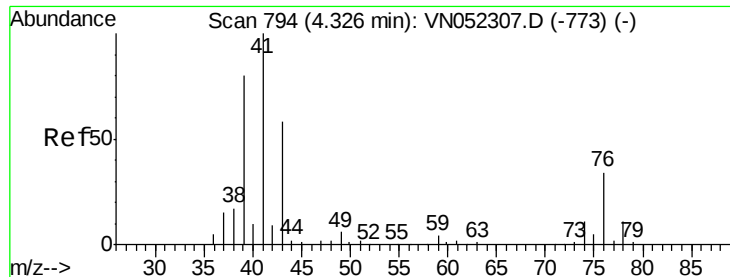
78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

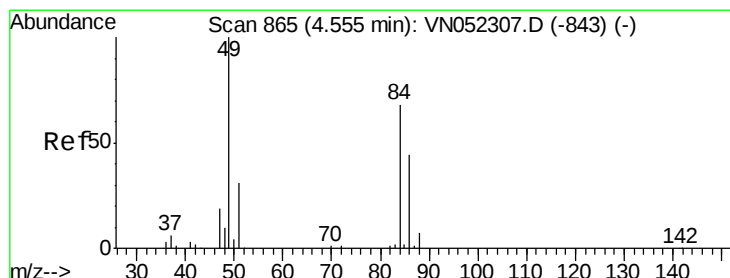
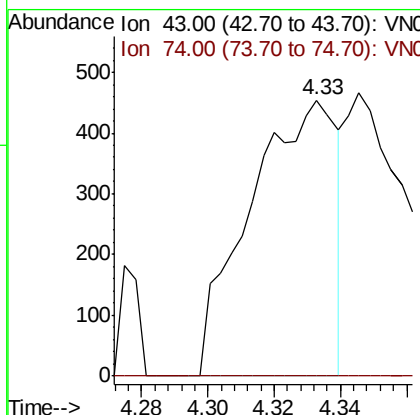
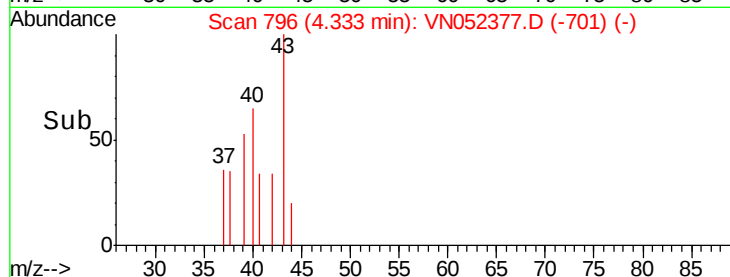
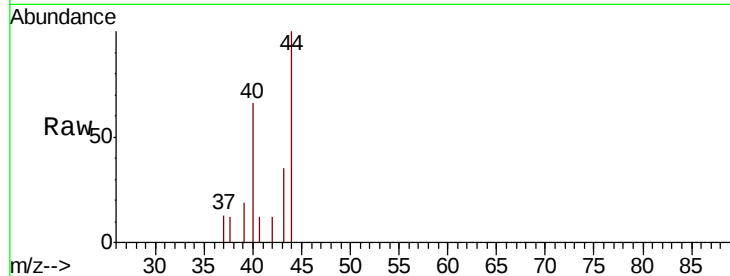




#18
Methyl Acetate
Concen: 0.682 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN052377.D
Acq: 19 Nov 2018 11:01

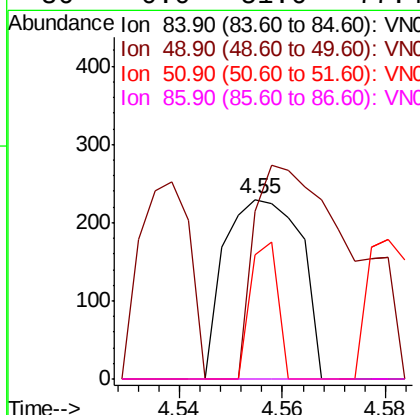
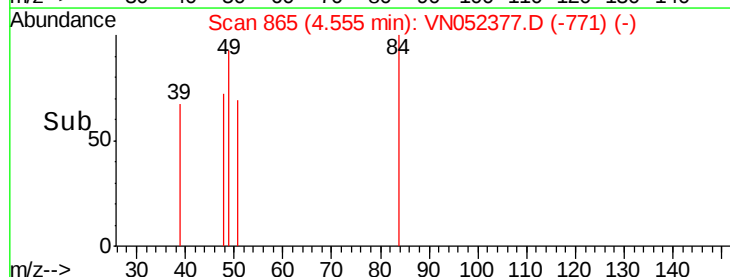
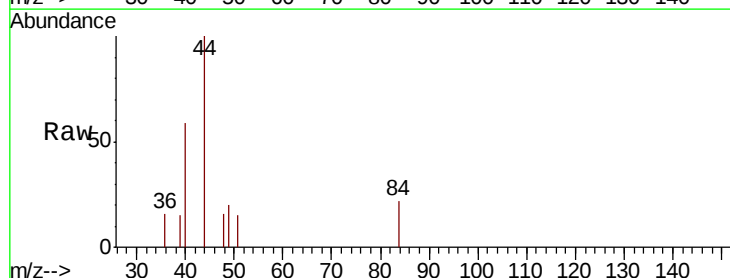
Instrument :
MSVOA_N
ClientSampled :
VN1119WBL01

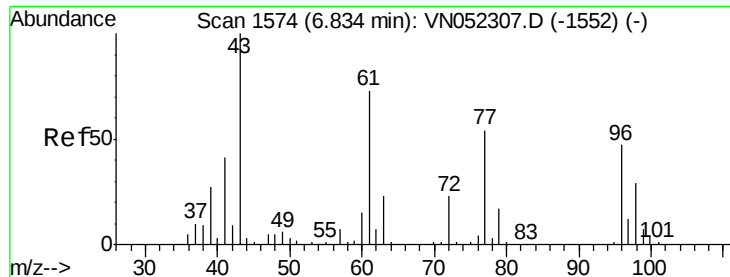
Tot Ion: 43 Resp: 829
Ion Ratio Lower Upper
43 100
74 0.0 15.9 23.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052377.D
Acq: 19 Nov 2018 11:01

Tgt Ion: 84 Resp: 235
Ion Ratio Lower Upper
84 100
49 10.0 118.2 177.2#
51 69.1 36.1 54.1#
86 0.0 51.6 77.4#

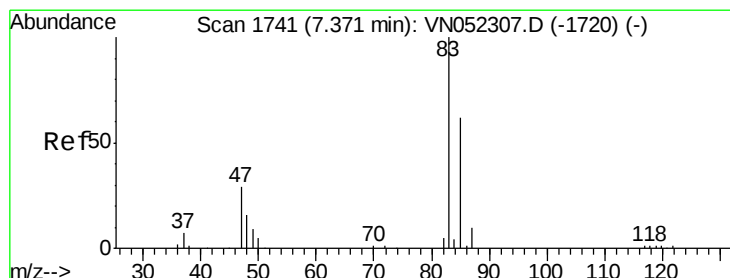
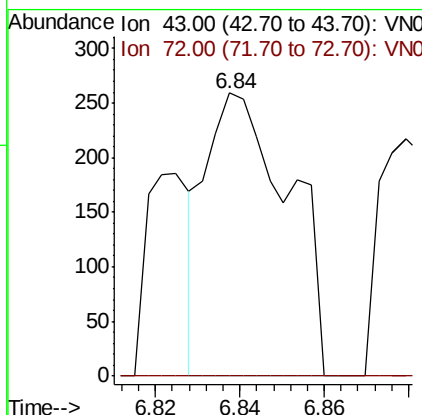
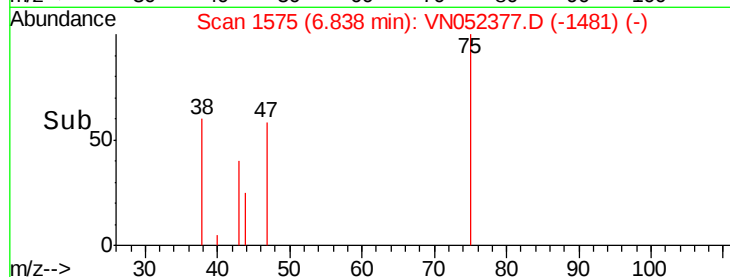
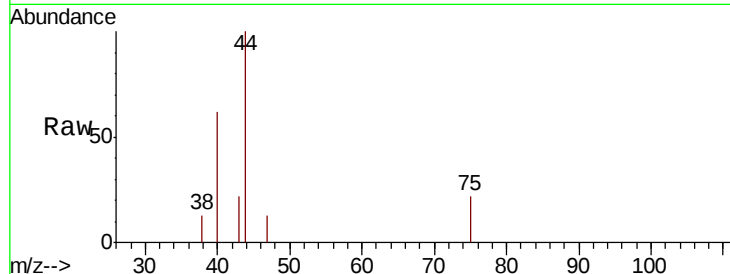




#25
2-Butanone
Concen: 0.213 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN052377.D
Acq: 19 Nov 2018 11:01

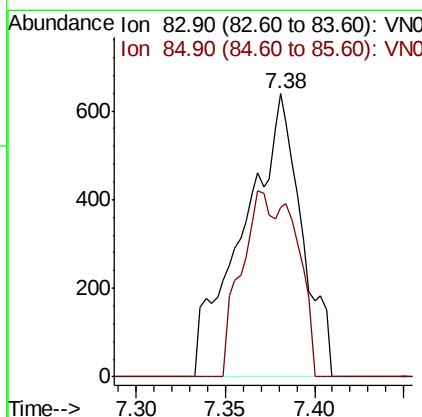
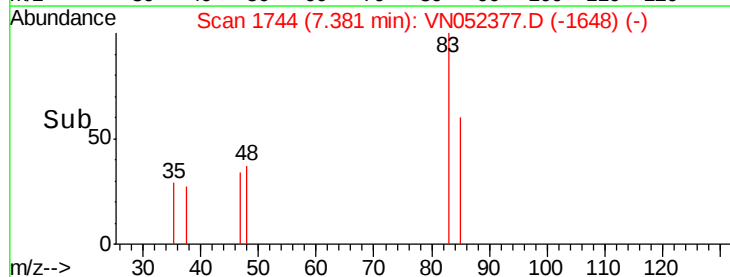
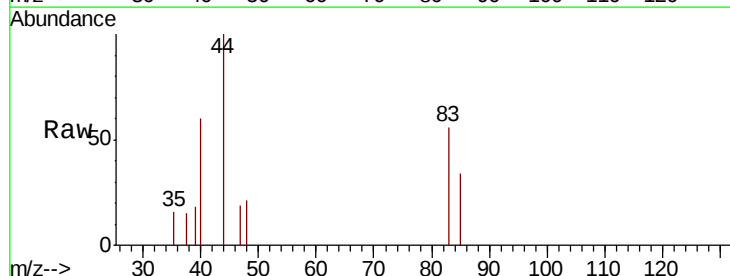
Instrument :
MSVOA_N
ClientSampleId :
VN1119WBL01

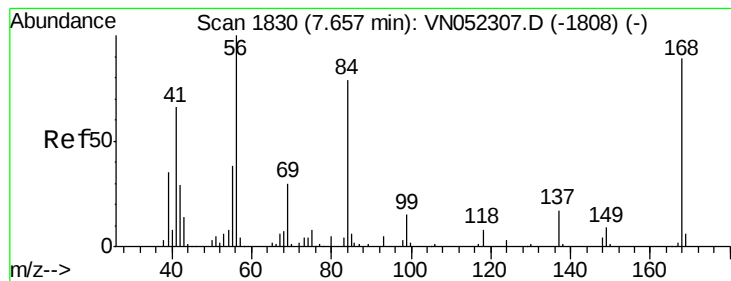
Tot Ion: 43 Resp: 352
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#30
Chloroform
Concen: 0.219 ug/l
RT: 7.38 min Scan# 1744
Delta R.T. 0.01 min
Lab File: VN052377.D
Acq: 19 Nov 2018 11:01

Tgt Ion: 83 Resp: 1453
Ion Ratio Lower Upper
83 100
85 60.0 49.4 74.2





#31

Cyclohexane

Concen: 0.400 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBL01

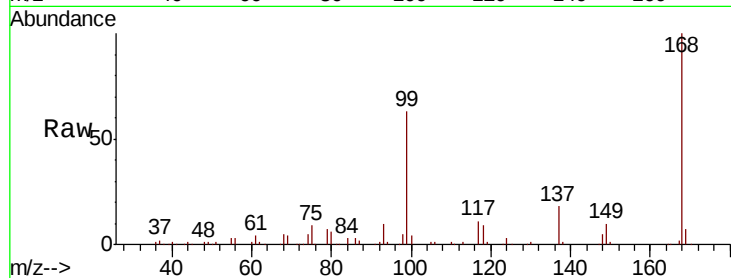
Tot Ion: 56 Resp: 9393

Ion Ratio Lower Upper

56 100

69 123.6 23.8 35.8#

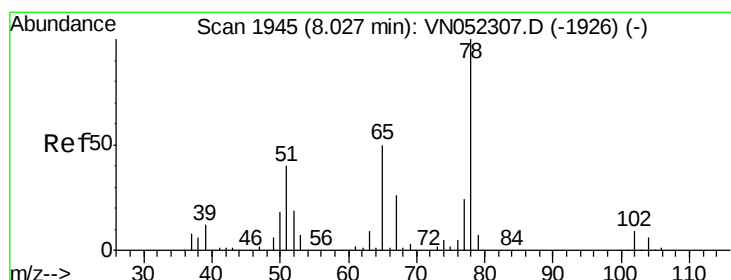
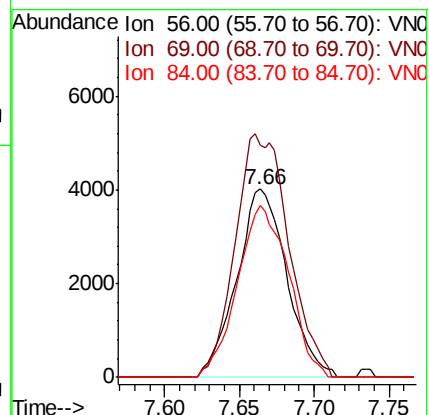
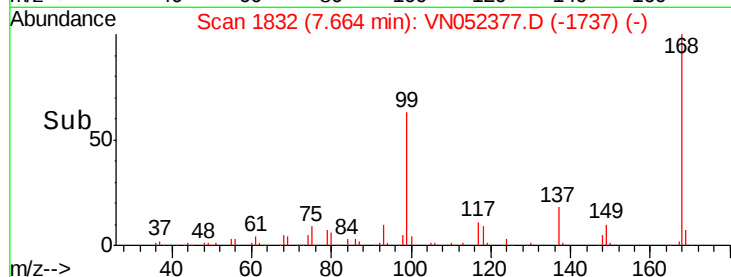
84 91.2 63.0 94.6



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# 1945

Delta R.T. 0.00 min

Lab File: VN052377.D

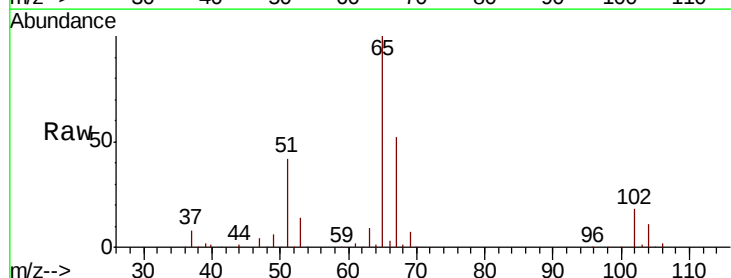
Acq: 19 Nov 2018 11:01

Tgt Ion: 65 Resp: 212458

Ion Ratio Lower Upper

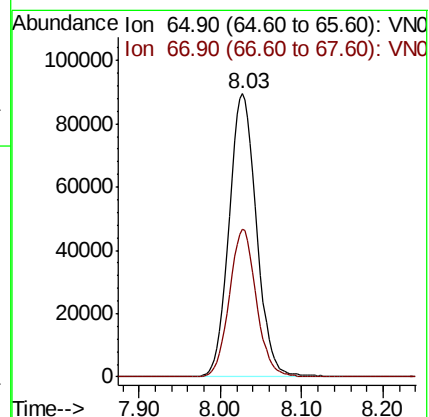
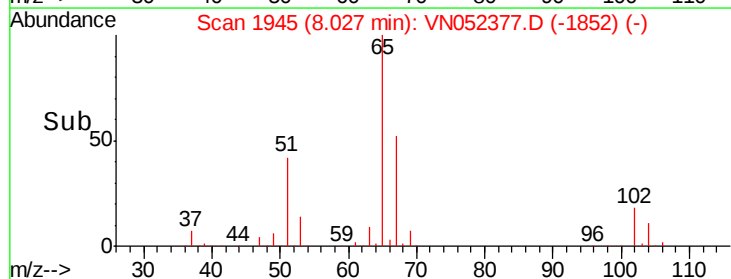
65 100

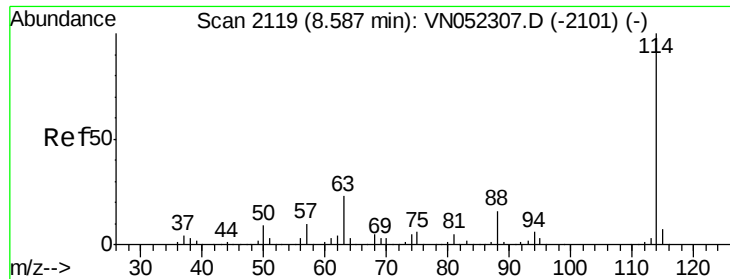
67 51.1 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

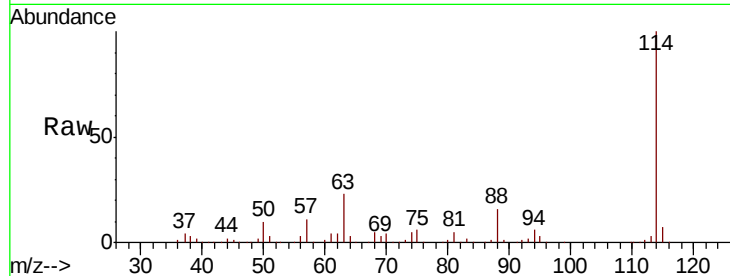




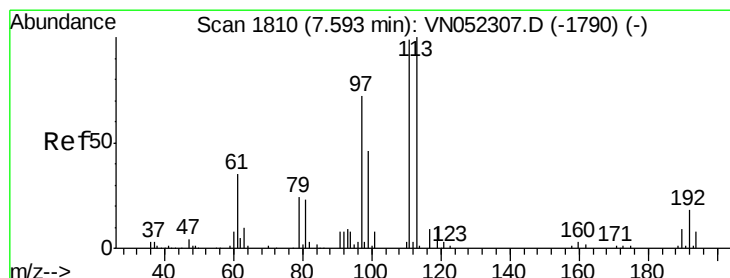
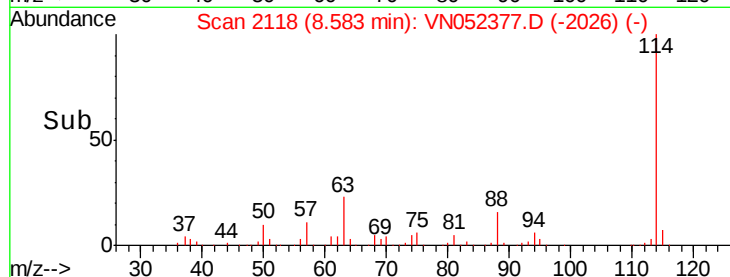
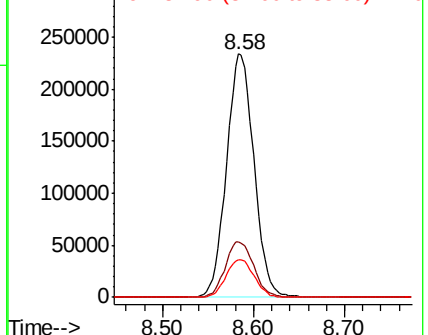
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. -0.00 min
Lab File: VN052377.D
Acq: 19 Nov 2018 11:01

Instrument :
MSVOA_N
ClientSampleId :
VN1119WBL01

Tot Ion:114 Resp: 490912
Ion Ratio Lower Upper
114 100
63 22.9 0.0 45.4
88 15.6 0.0 31.2

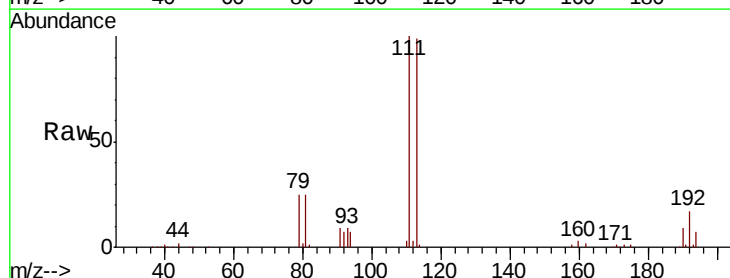


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

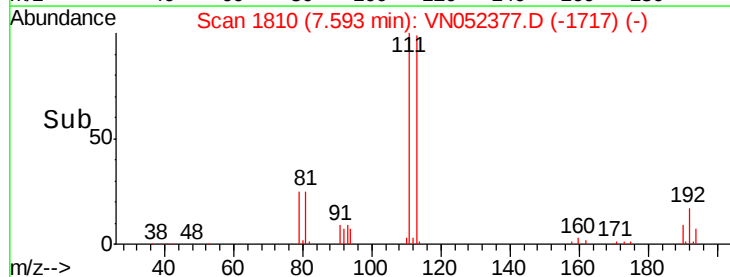
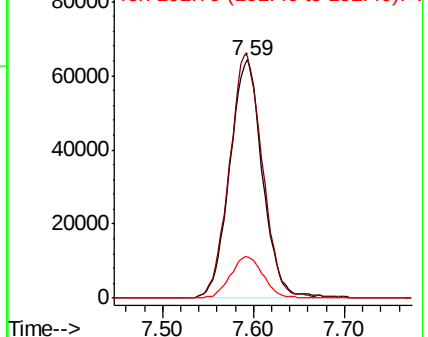


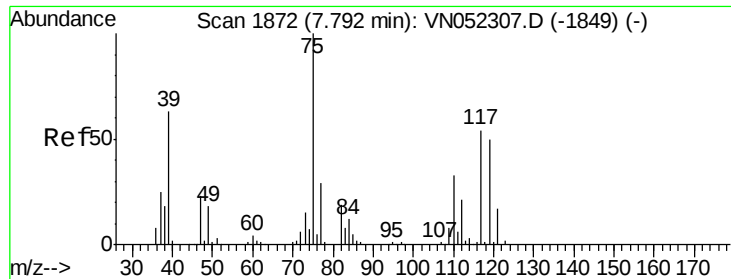
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052377.D
Acq: 19 Nov 2018 11:01

Tgt Ion:113 Resp: 160779
Ion Ratio Lower Upper
113 100
111 102.8 81.0 121.6
192 17.4 13.8 20.6



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

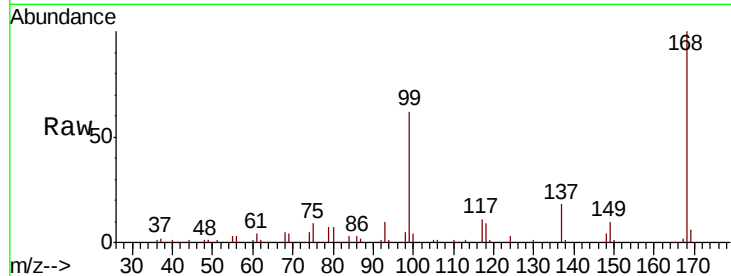




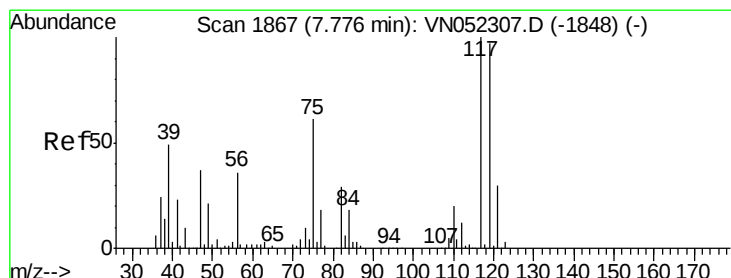
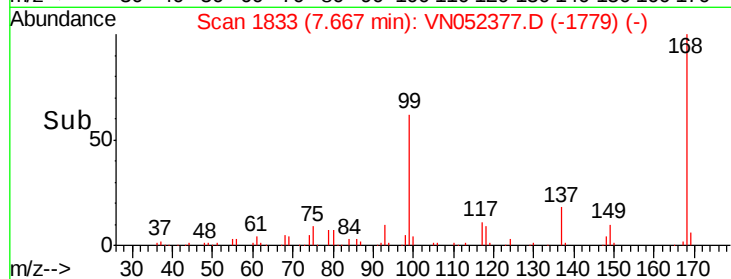
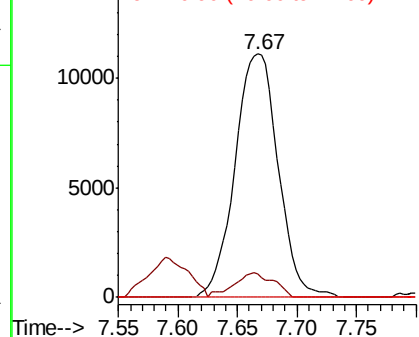
#36
 1,1-Dichloropropene
 Concen: 5.682 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052377.D
 Acq: 19 Nov 2018 11:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBL01

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.5	49.5#
77	0.0	24.2	36.2#

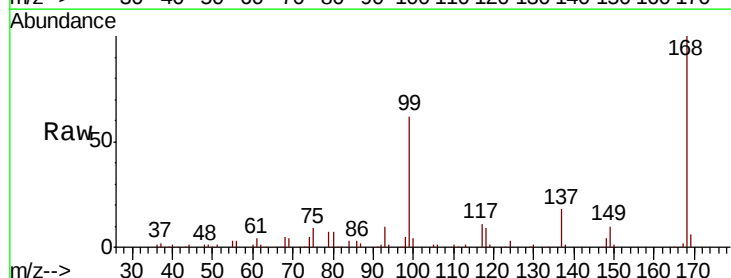


Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN052307.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN052307.D (-1849) (-)

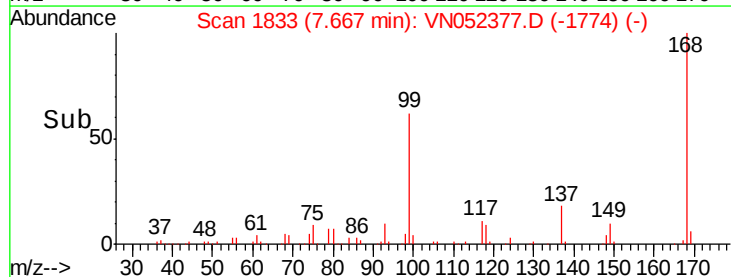
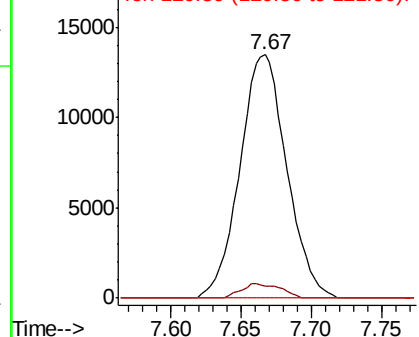


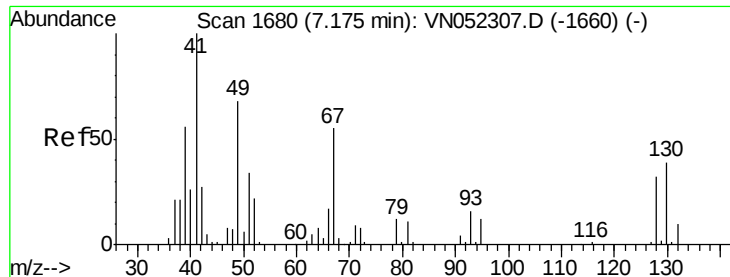
#38
 Carbon Tetrachloride
 Concen: 6.918 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052377.D
 Acq: 19 Nov 2018 11:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.8	77.4	116.0#
121	0.0	24.0	36.0#



Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN052307.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN052307.D (-1848) (-)

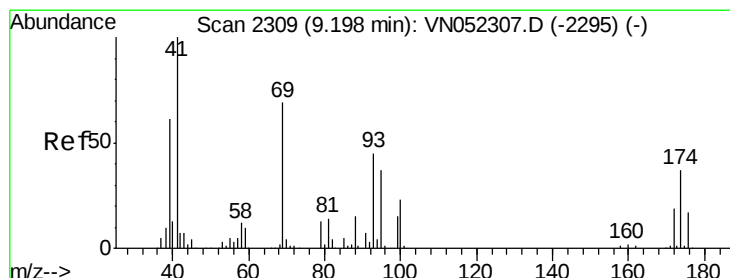
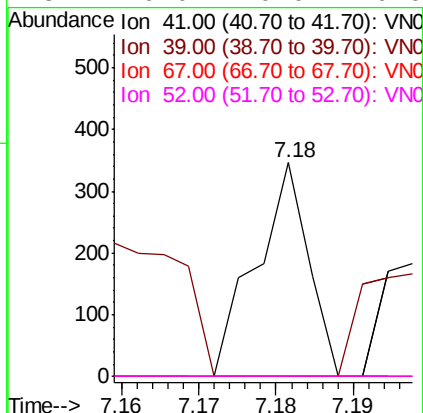
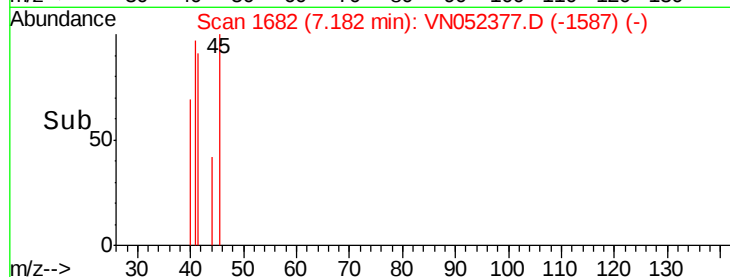
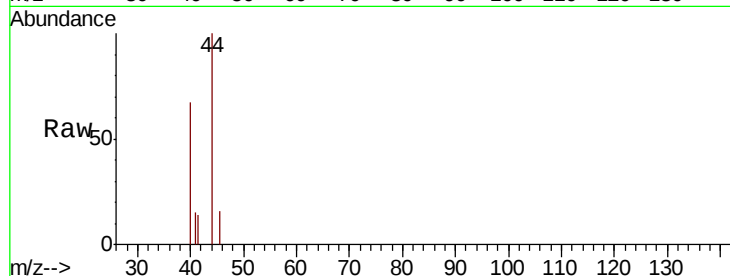




#41
Methacrylonitrile
Concen: 3.772 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN052377.D
Acq: 19 Nov 2018 11:01

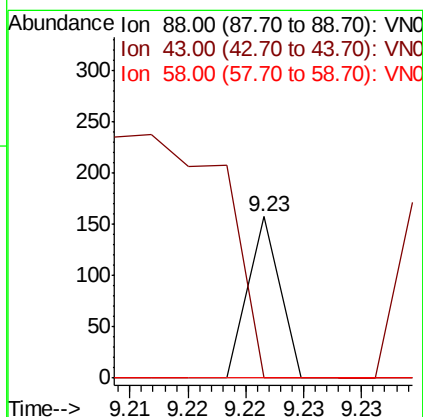
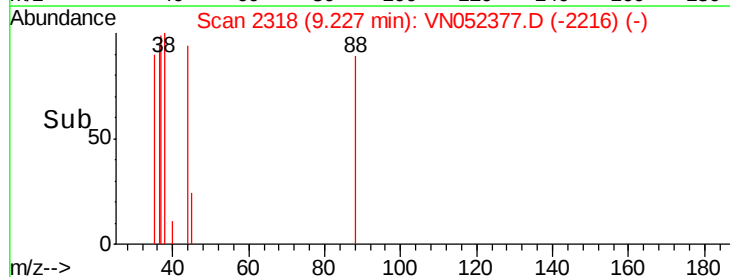
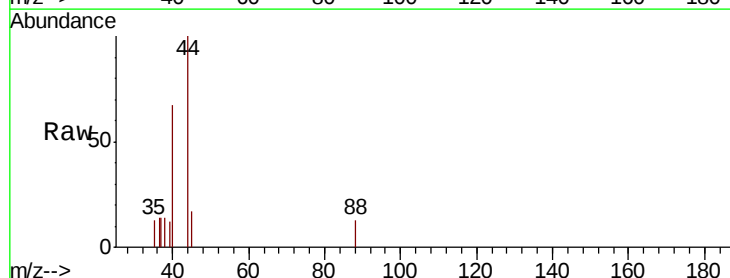
Instrument :
MSVOA_N
ClientSampled :
VN1119WBL01

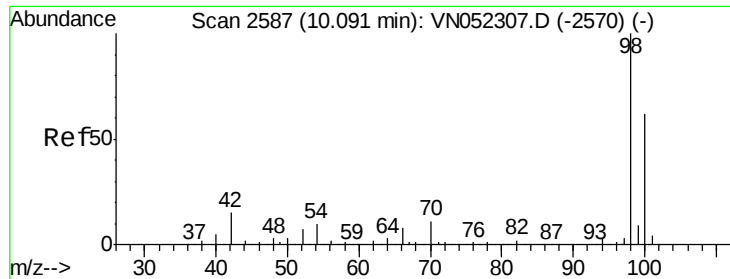
Tot Ion:	41	Resp:	164
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#49
1,4-Dioxane
Concen: 1.118 ug/l
RT: 9.23 min Scan# 2318
Delta R.T. 0.03 min
Lab File: VN052377.D
Acq: 19 Nov 2018 11:01

Tgt Ion:	88	Resp:	30
Ion	Ratio	Lower	Upper
88	100		
43	0.0	33.3	49.9#
58	0.0	59.2	88.8#





#50

Toluene-d8

Concen: 1.118 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampleId :

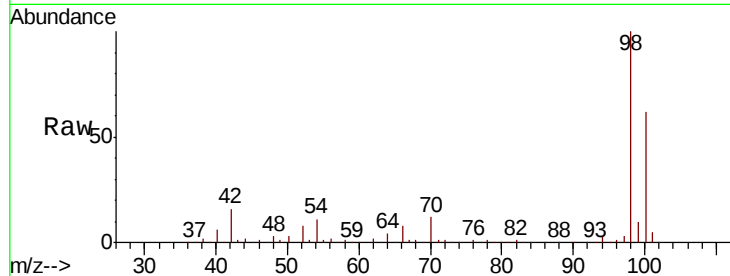
VN1119WBL01

Tot Ion: 98 Resp: 611466

Ion Ratio Lower Upper

98 100

100 62.1 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN052307.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052307.D (-2570) (-)

10.09

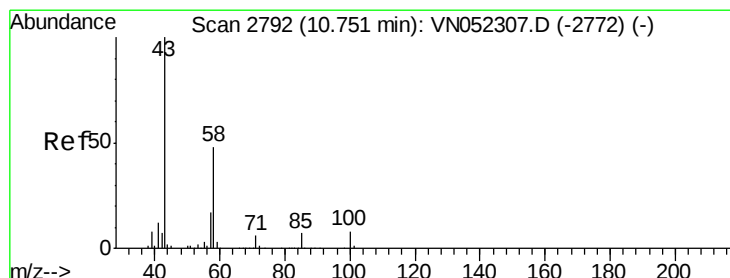
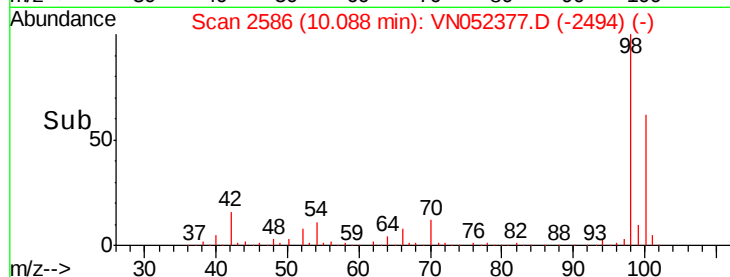
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.492 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN052377.D

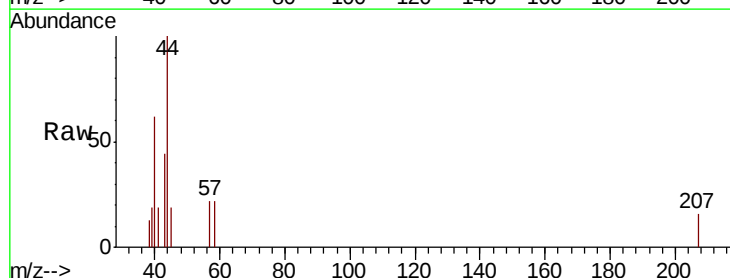
Acq: 19 Nov 2018 11:01

Tgt Ion: 43 Resp: 1174

Ion Ratio Lower Upper

43 100

58 23.0 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-2772) (-)

Ion 58.00 (57.70 to 58.70): VN052307.D (-2772) (-)

10.76

600

500

400

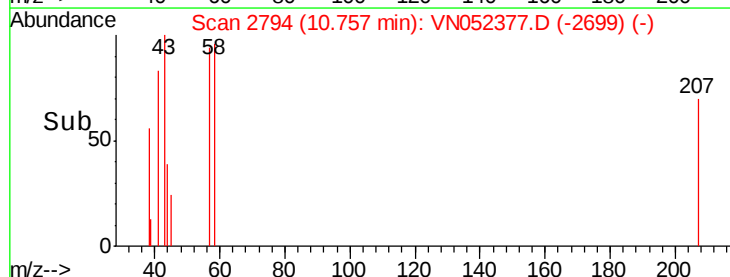
300

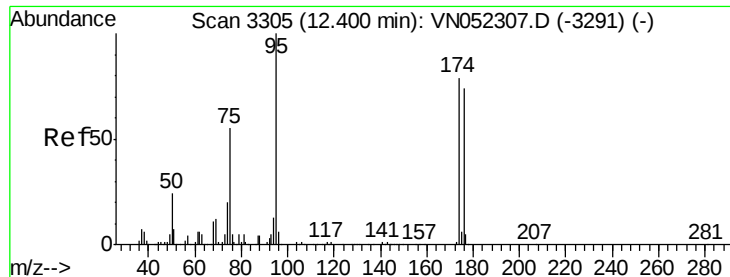
200

100

0

Time-->





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampled :

VN1119WBL01

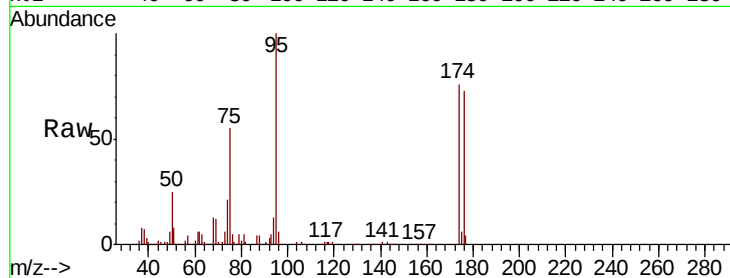
Tot Ion: 95 Resp: 172166

Ion Ratio Lower Upper

95 100

174 75.7 0.0 156.0

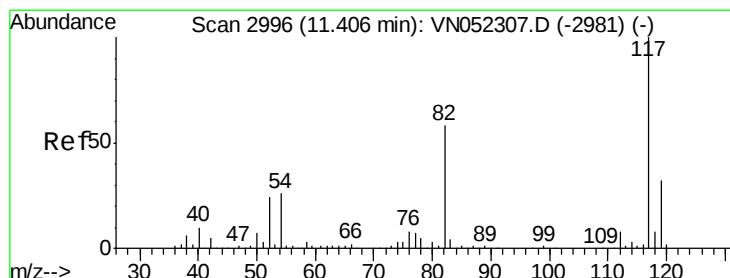
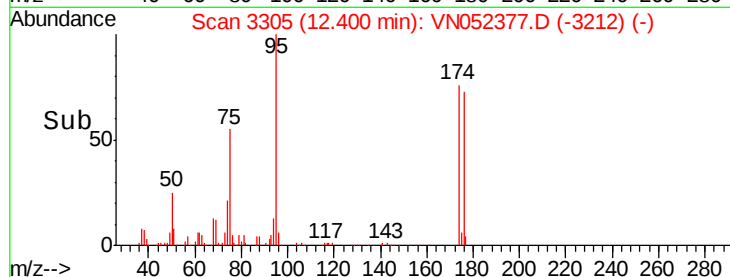
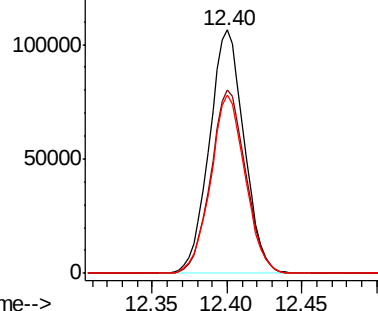
176 72.6 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052377.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052377.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052377.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

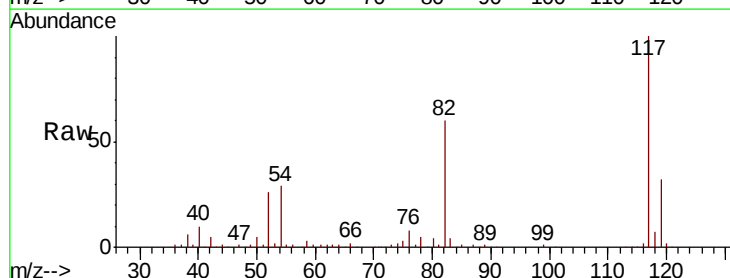
Tgt Ion: 117 Resp: 396635

Ion Ratio Lower Upper

117 100

82 59.8 46.5 69.7

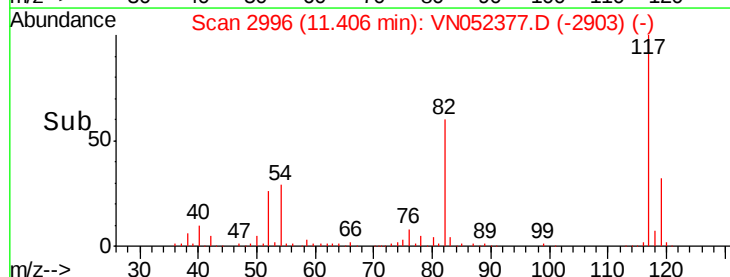
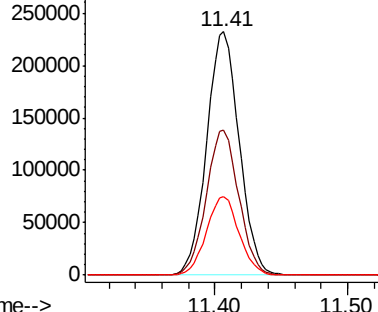
119 32.4 25.7 38.5

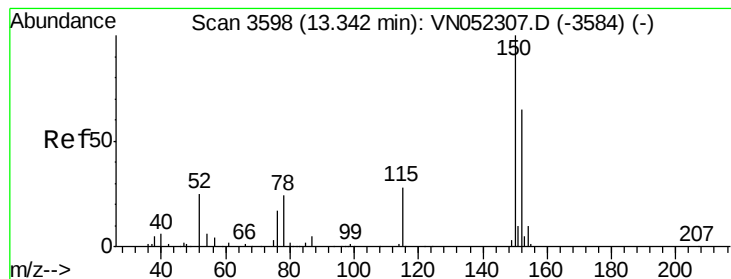


Abundance Ion 116.90 (116.60 to 117.60): VN052377.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052377.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052377.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBL01

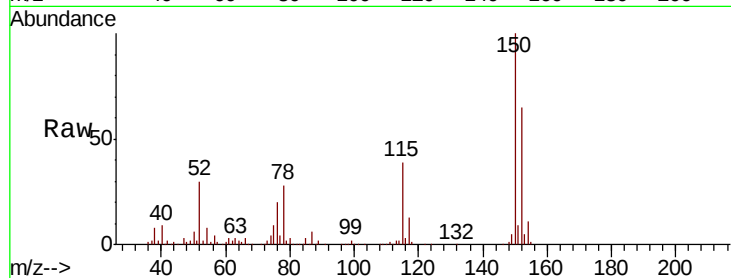
Tot Ion:152 Resp: 131937

Ion Ratio Lower Upper

152 100

115 60.5 30.3 91.0

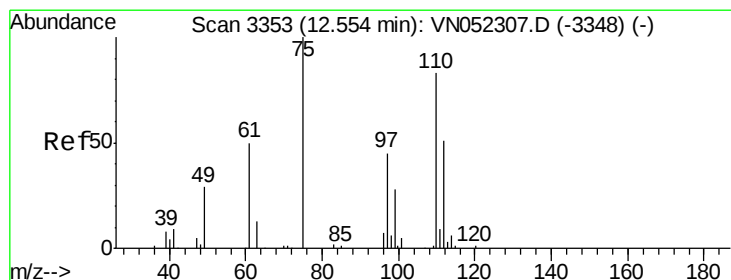
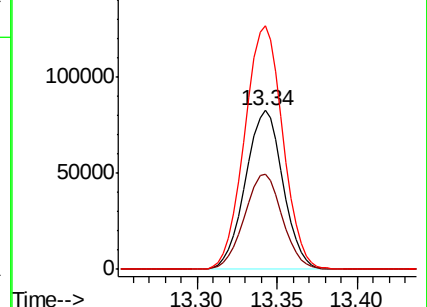
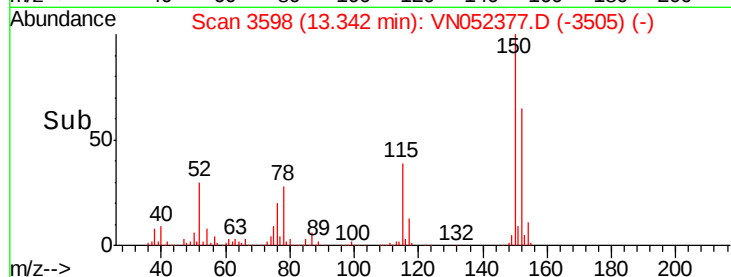
150 155.5 0.0 348.2



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: 43.139 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052377.D

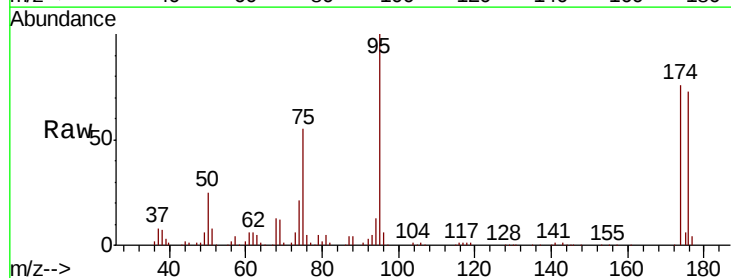
Acq: 19 Nov 2018 11:01

Tgt Ion: 75 Resp: 96577

Ion Ratio Lower Upper

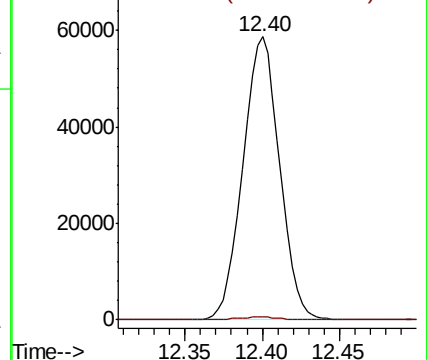
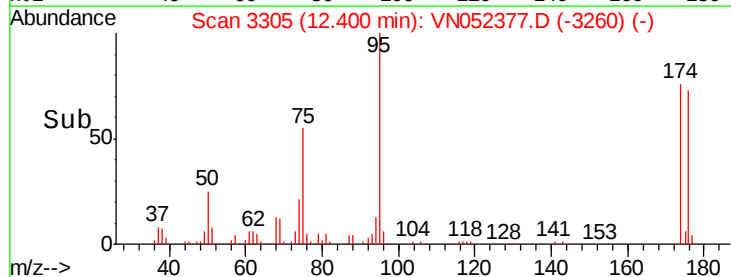
75 100

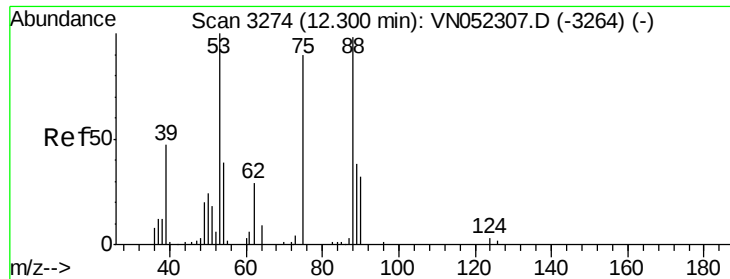
77 1.0 0.0 0.0#



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: 139.918 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampleId :

VN1119WBL01

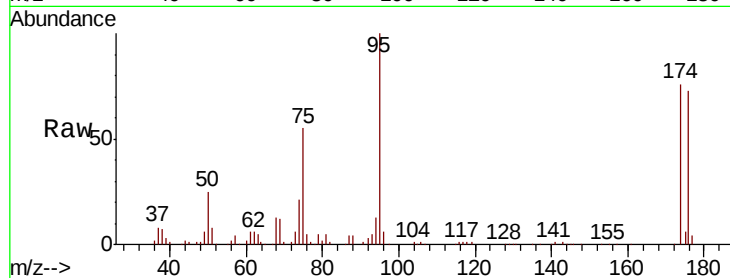
Tot Ion: 75 Resp: 96577

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

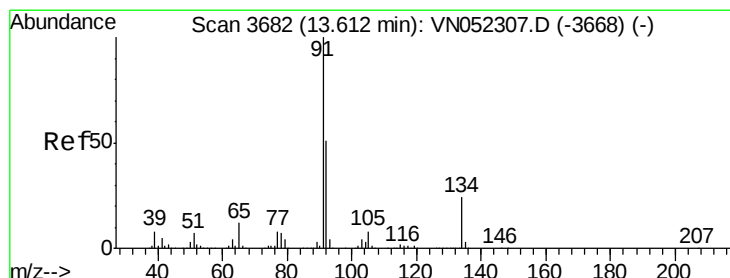
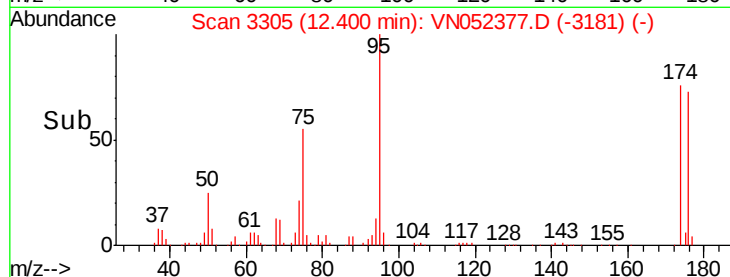
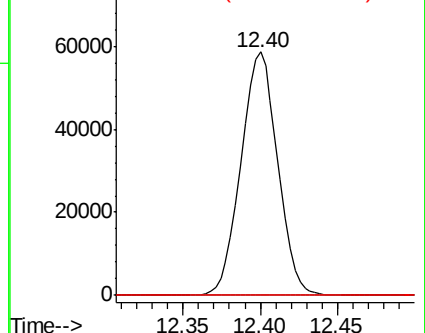
89 0.0 35.4 53.0#



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



#89

n-Butylbenzene

Concen: 0.242 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

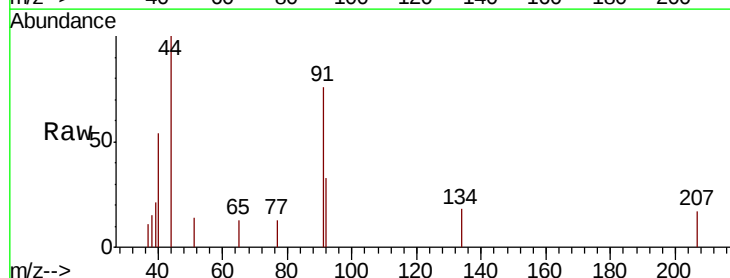
Tgt Ion: 91 Resp: 1783

Ion Ratio Lower Upper

91 100

92 38.4 25.4 76.2

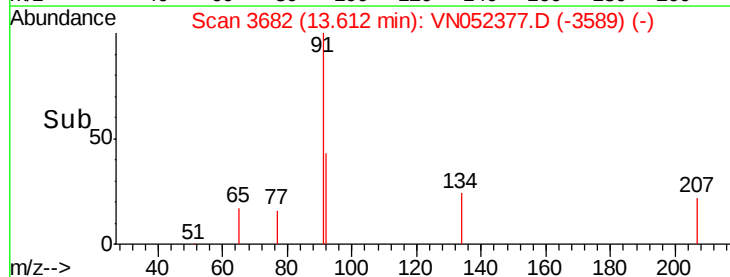
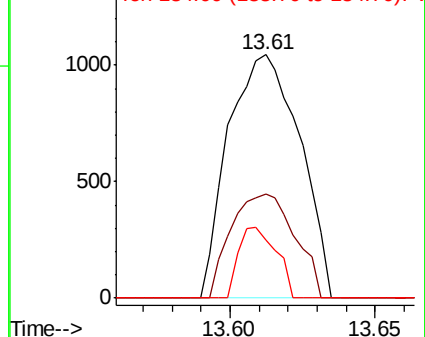
134 15.5 12.2 36.4

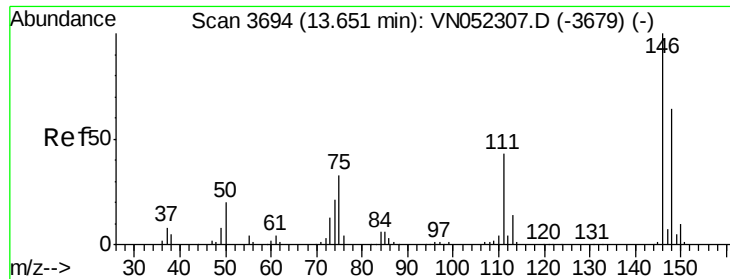


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: 0.295 ug/l

RT: 13.65 min Scan# 3693

Delta R.T. -0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampled :

VN1119WBL01

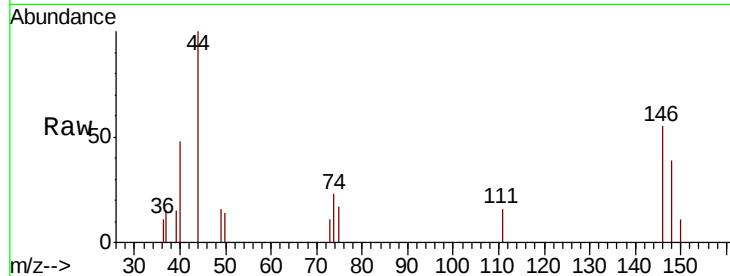
Tot Ion:146 Resp: 1254

Ion Ratio Lower Upper

146 100

111 35.6 21.3 63.9

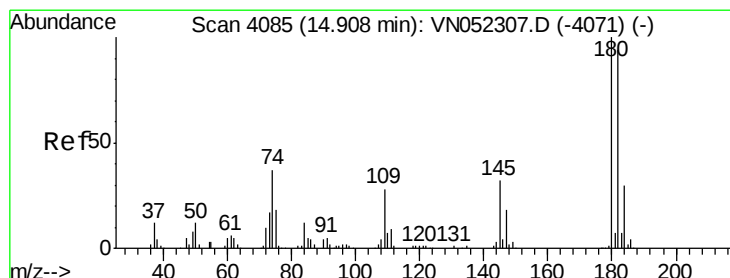
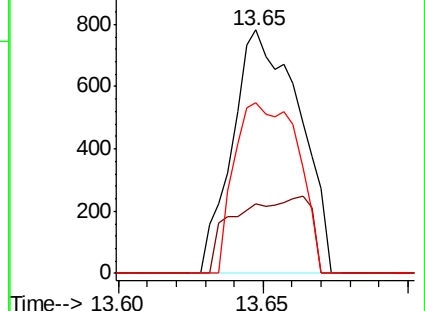
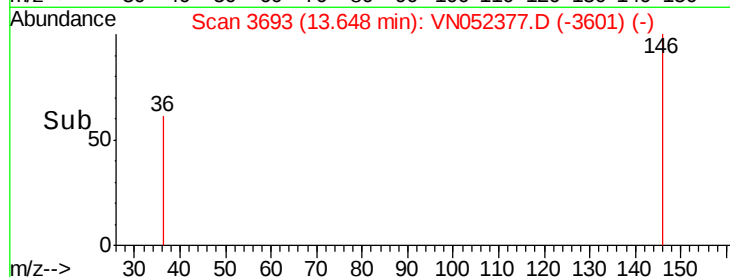
148 66.4 31.6 94.8



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 3.236 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

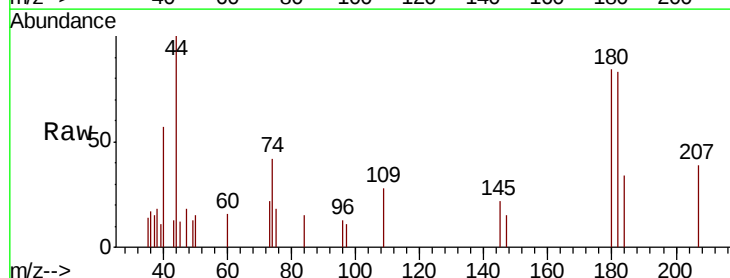
Tgt Ion:180 Resp: 2026

Ion Ratio Lower Upper

180 100

182 102.6 47.6 142.9

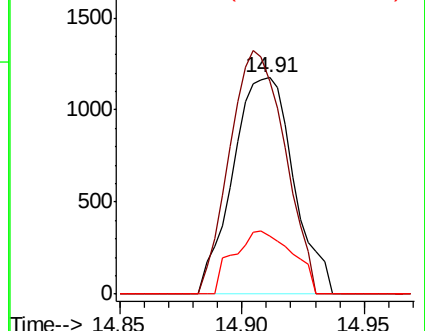
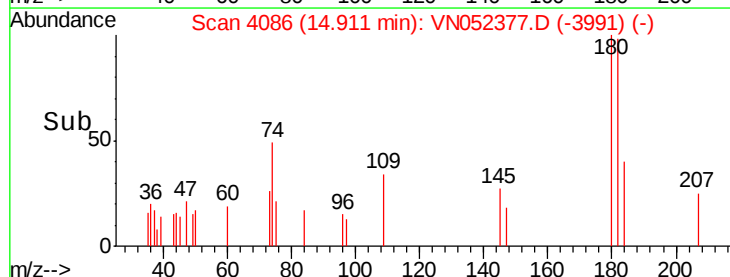
145 28.5 15.5 46.5

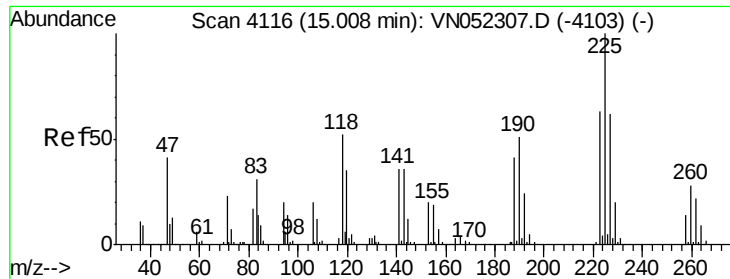


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 1.100 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

Instrument :

MSVOA_N

ClientSampled :

VN1119WBL01

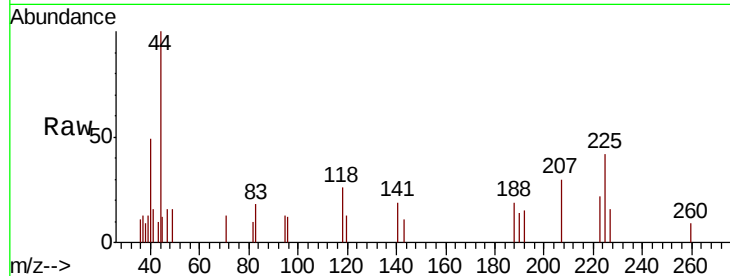
Tot Ion:225 Resp: 1069

Ion Ratio Lower Upper

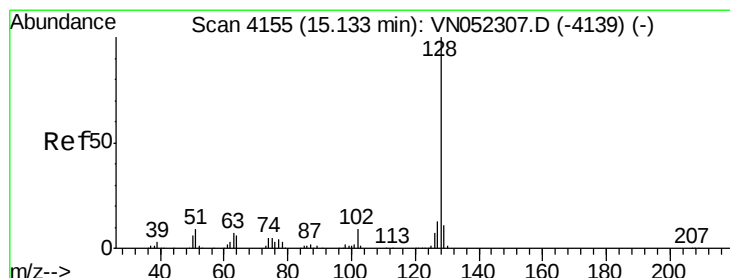
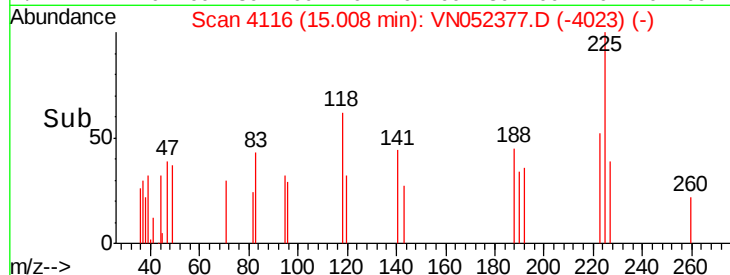
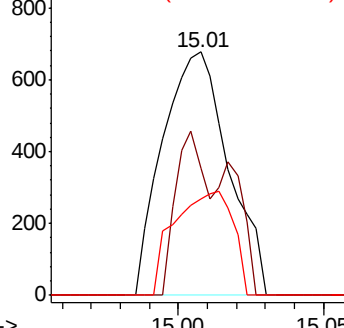
225 100

223 31.2 31.9 95.5#

227 37.9 31.6 95.0



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 3.520 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052377.D

Acq: 19 Nov 2018 11:01

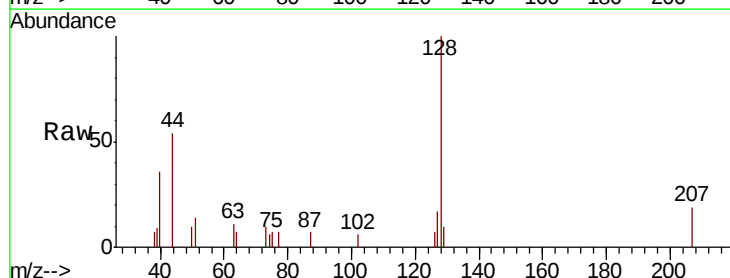
Tgt Ion:128 Resp: 4510

Ion Ratio Lower Upper

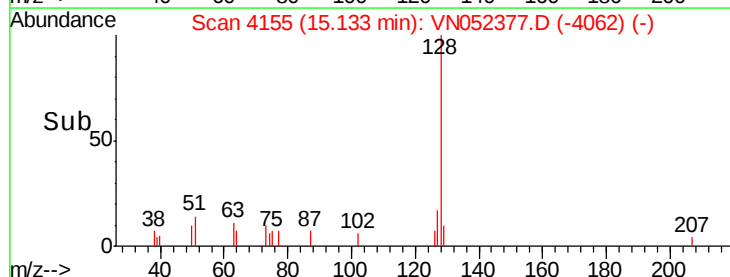
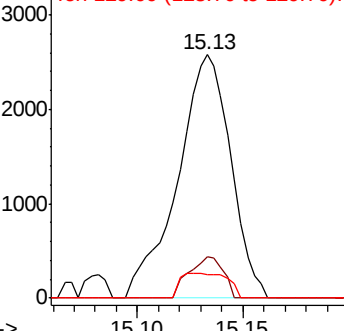
128 100

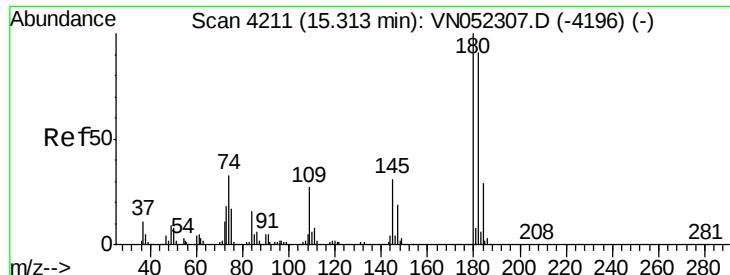
127 10.9 10.4 15.6

129 9.0 8.6 13.0



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

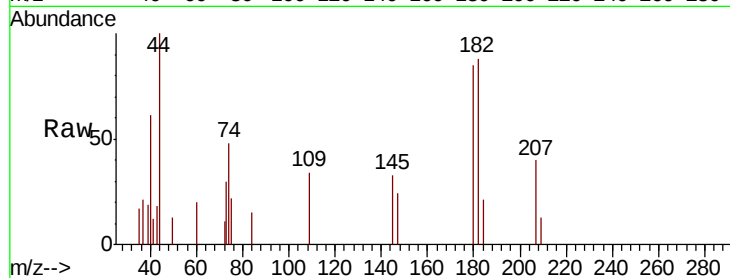




#96
 1,2,3-Trichlorobenzene
 Concen: 1.267 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052377.D
 Acq: 19 Nov 2018 11:01

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1119WBL01

Tot Ion:180 Resp: 2044
 Ion Ratio Lower Upper
 180 100
 182 118.7 46.5 139.3
 145 34.2 16.4 49.2



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

