

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110218\
 Data File : VN052116.D
 Acq On : 2 Nov 2018 9:20
 Operator : MD\SY
 Sample : VN1102WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBL01

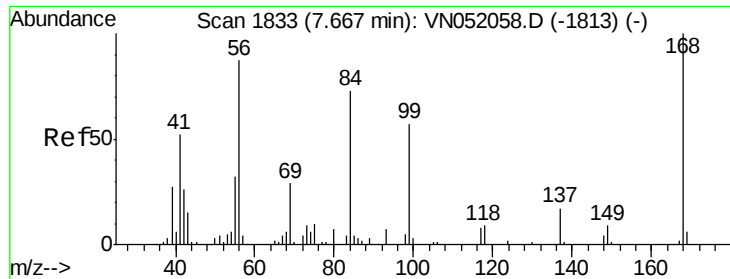
Quant Time: Nov 02 23:09:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N103018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 02:45:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	305079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	562784	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	530879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	214540	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	257951	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
35) Dibromofluoromethane	7.59	113	217939	61.90	ug/l	0.00
Spiked Amount			Recovery	=	123.80%	
50) Toluene-d8	10.09	98	835963	59.41	ug/l	0.00
Spiked Amount			Recovery	=	118.82%	
62) 4-Bromofluorobenzene	12.40	95	283062	54.80	ug/l	0.00
Spiked Amount			Recovery	=	109.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	106	24.426	ug/l #	12
16) Acetone	3.82	43	331	0.317	ug/l #	44
18) Methyl Acetate	4.32	43	1045	0.314	ug/l #	53
25) 2-Butanone	6.83	43	405	0.247	ug/l #	50
29) Tetrahydrofuran	7.23	42	263	0.241	ug/l #	45
31) Cyclohexane	7.66	56	7815	Below Cal	#	7
36) 1,1-Dichloropropene	7.67	75	27659	4.833	ug/l #	52
38) Carbon Tetrachloride	7.66	117	33378	6.765	ug/l #	17
51) 4-Methyl-2-Pentanone	10.01	43	814	0.220	ug/l #	38
59) 2-Hexanone	10.76	43	762	0.289	ug/l	65
71) Bromoform	12.39	173	385	2.341	ug/l #	29
76) 1,2,3-Trichloropropane	12.40	75	147929	37.667	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	147929	125.024	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	64	1.018	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	2033	0.830	ug/l	93
94) Hexachlorobutadiene	15.01	225	738	0.538	ug/l	91
95) Naphthalene	15.14	128	5067	0.824	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.32	180	2444	1.156	ug/l	88

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

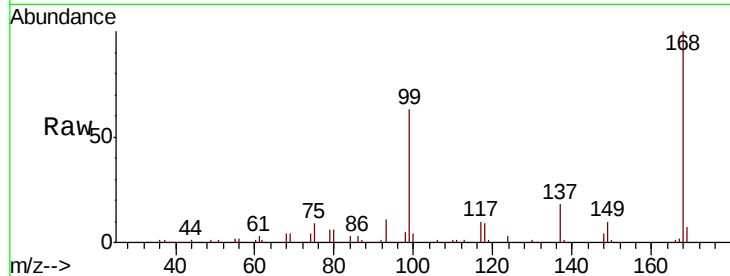
VN1102WBL01

Tot Ion:168 Resp: 305079

Ion Ratio Lower Upper

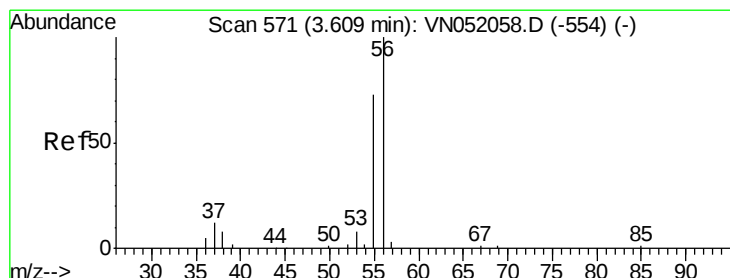
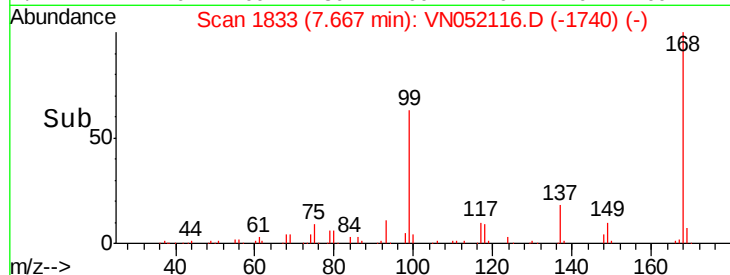
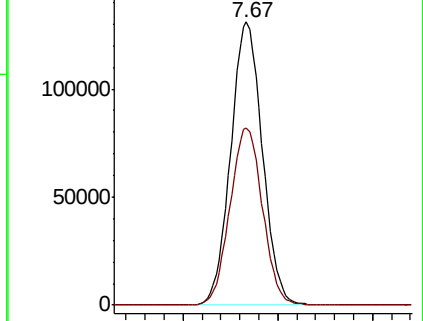
168 100

99 62.7 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#13

Acrolein

Concen: 24.426 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN052116.D

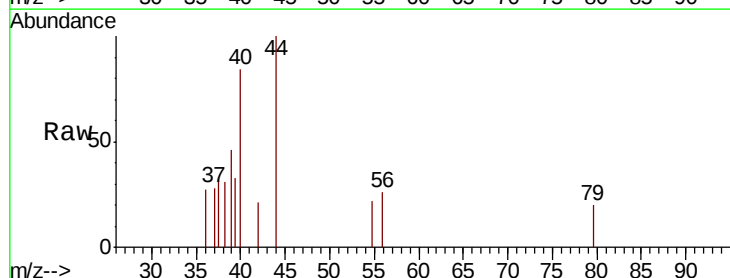
Acq: 2 Nov 2018 9:20

Tgt Ion: 56 Resp: 106

Ion Ratio Lower Upper

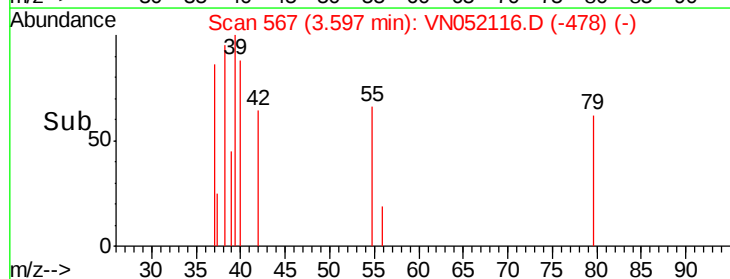
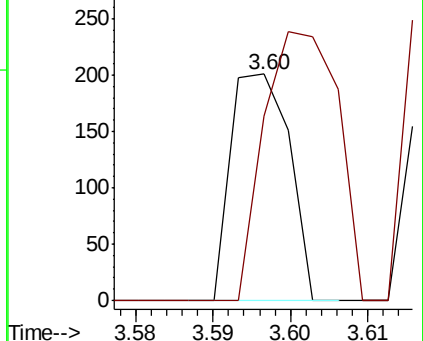
56 100

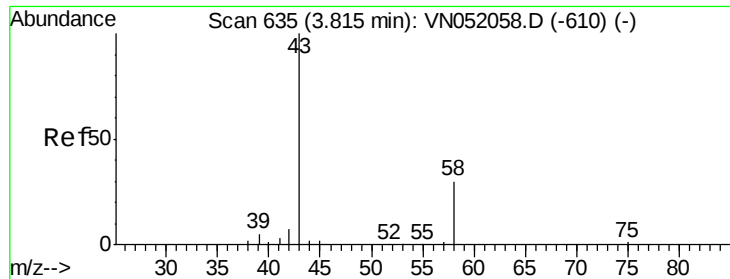
55 150.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN





#16

Acetone

Concen: 0.317 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

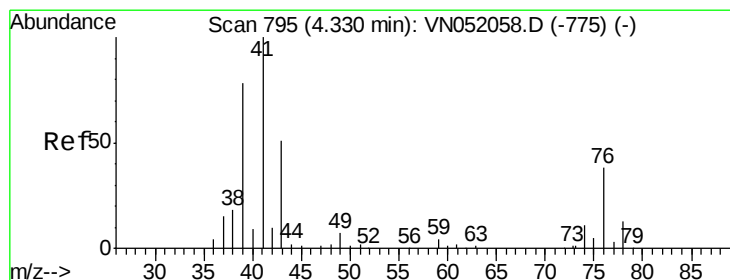
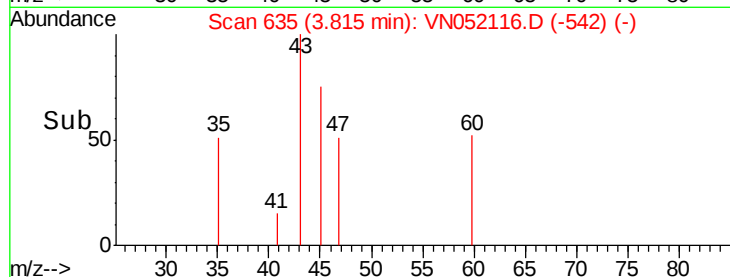
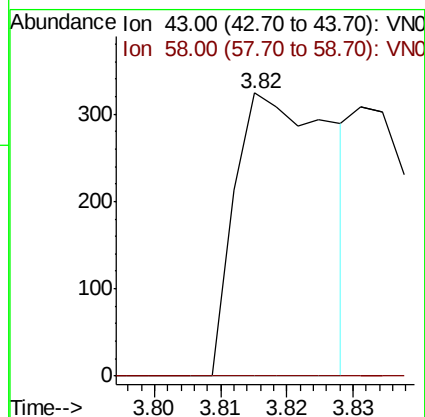
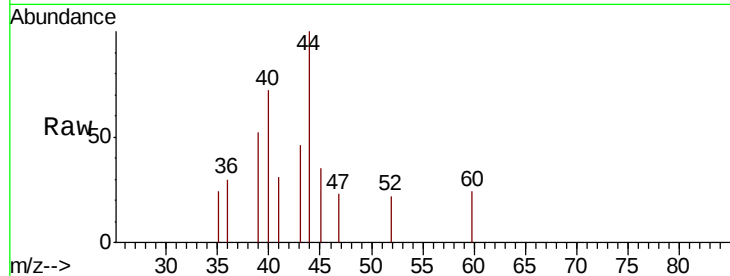
VN1102WBL01

Tot Ion: 43 Resp: 331

Ion Ratio Lower Upper

43 100

58 0.0 24.2 36.2#



#18

Methyl Acetate

Concen: 0.314 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.01 min

Lab File: VN052116.D

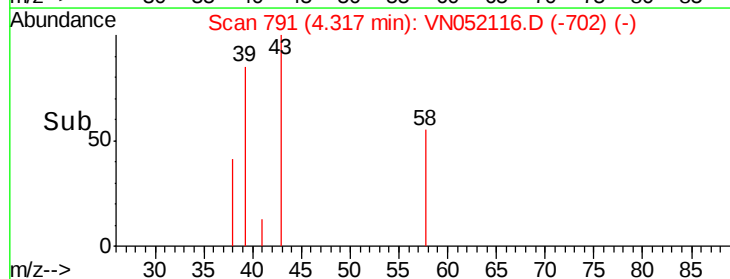
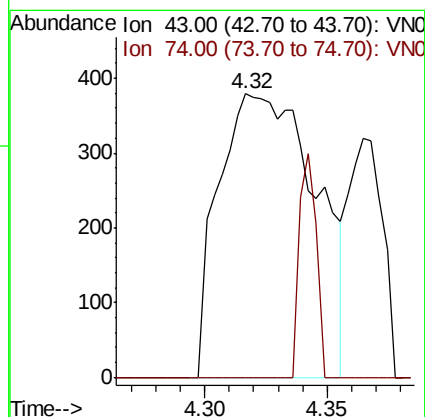
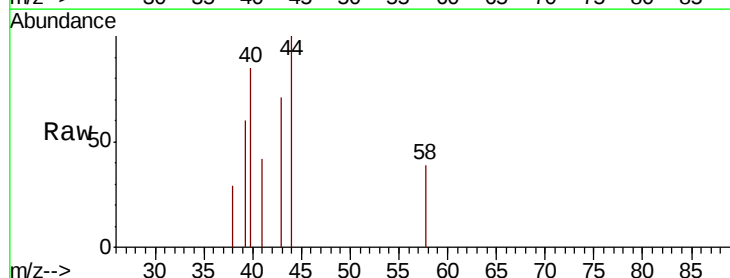
Acq: 2 Nov 2018 9:20

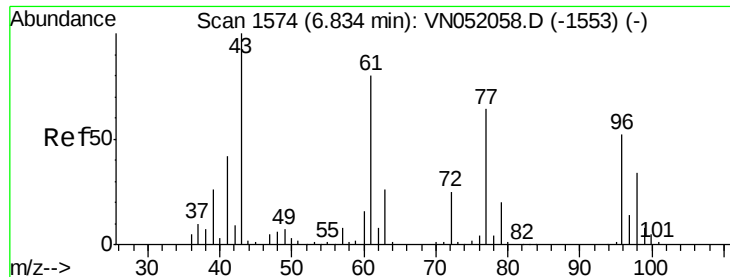
Tgt Ion: 43 Resp: 1045

Ion Ratio Lower Upper

43 100

74 0.0 17.9 26.9#





#25

2-Butanone

Concen: 0.247 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

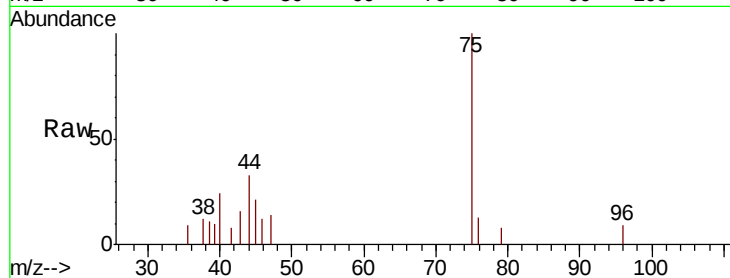
VN1102WBL01

Tot Ion: 43 Resp: 405

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.83

300

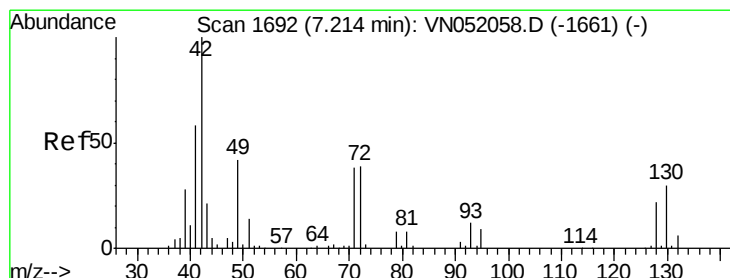
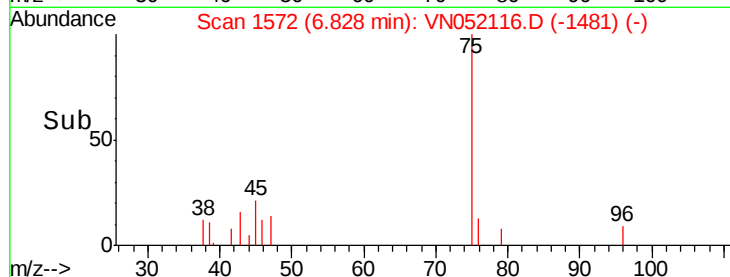
200

100

0

6.81 6.82 6.83 6.84 6.85

Time-->



#29

Tetrahydrofuran

Concen: 0.241 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

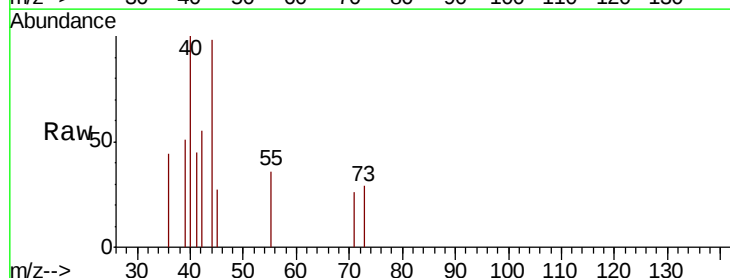
Tgt Ion: 42 Resp: 263

Ion Ratio Lower Upper

42 100

72 0.0 32.5 48.7#

71 11.0 30.6 46.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

400

300

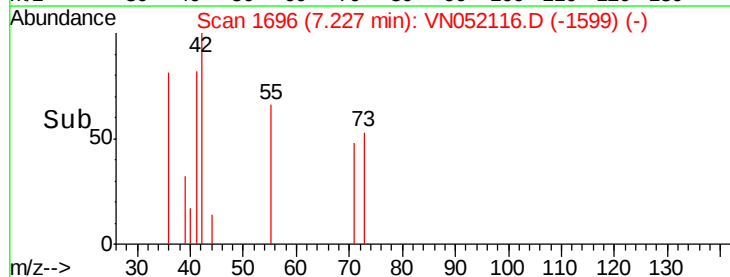
200

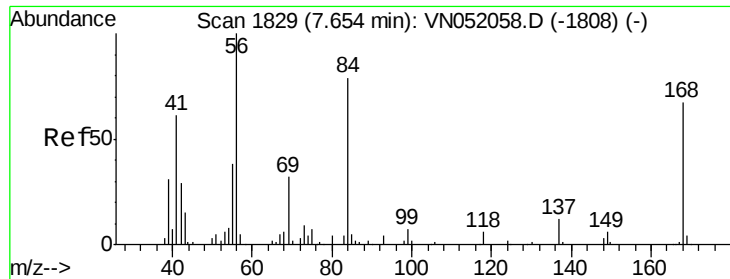
100

0

7.21 7.22 7.23 7.24 7.25

Time-->

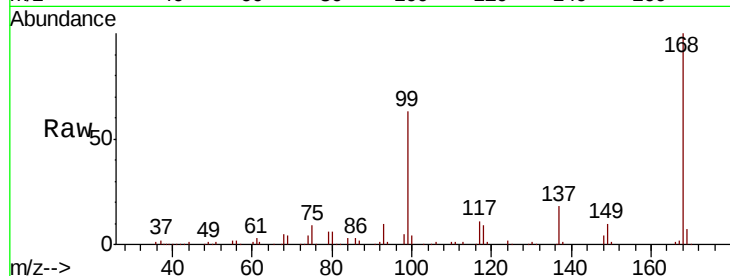




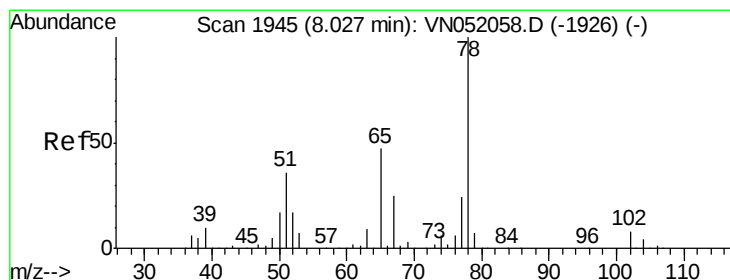
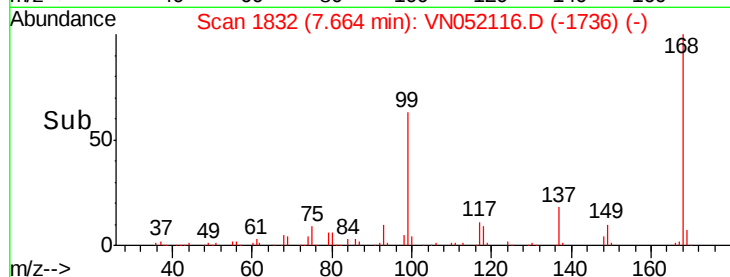
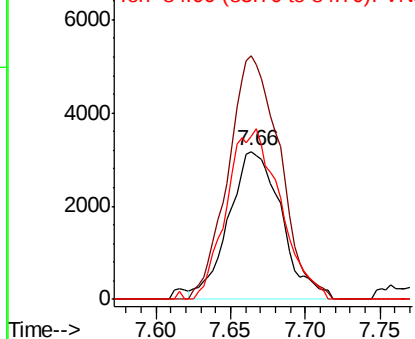
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052116.D
Acq: 2 Nov 2018 9:20

Instrument :
MSVOA_N
ClientSampleId :
VN1102WBL01

Tot Ion: 56 Resp: 7815
Ion Ratio Lower Upper
56 100
69 164.8 25.8 38.6#
84 110.3 63.5 95.3#

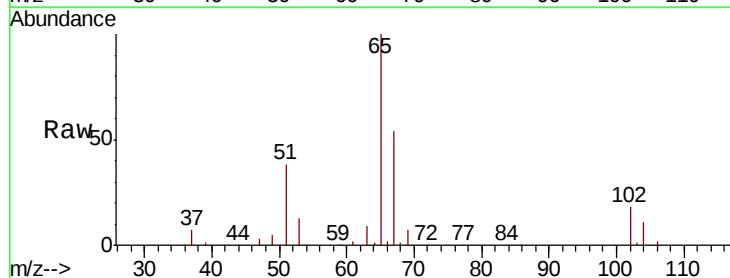


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

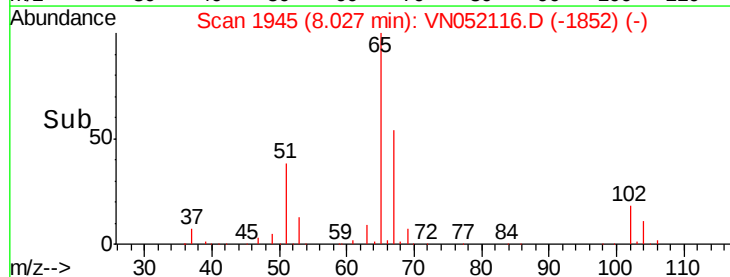
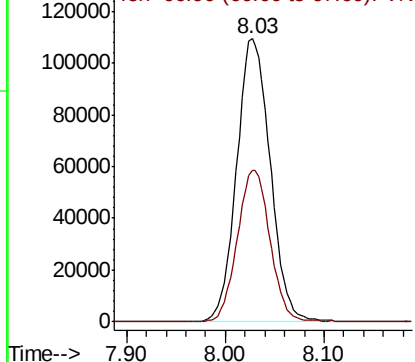


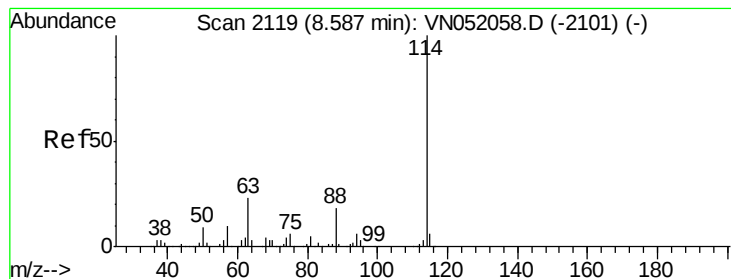
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052116.D
Acq: 2 Nov 2018 9:20

Tgt Ion: 65 Resp: 257951
Ion Ratio Lower Upper
65 100
67 52.1 0.0 105.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampleId :

VN1102WBL01

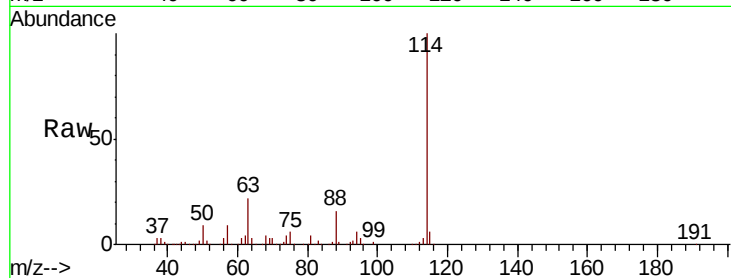
Tot Ion:114 Resp: 562784

Ion Ratio Lower Upper

114 100

63 21.9 0.0 46.0

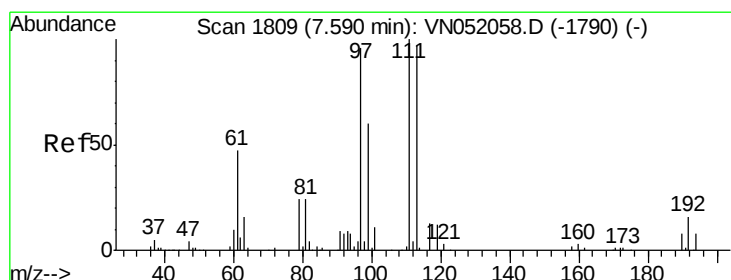
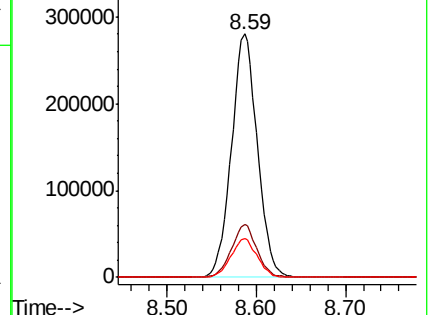
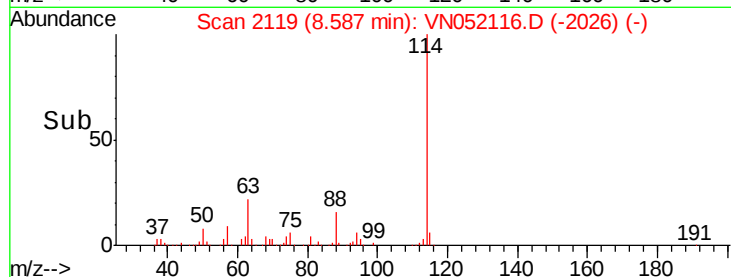
88 16.2 0.0 35.4



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: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

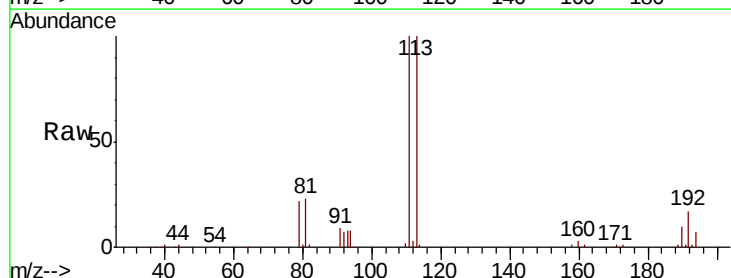
Tgt Ion:113 Resp: 217939

Ion Ratio Lower Upper

113 100

111 99.5 83.1 124.7

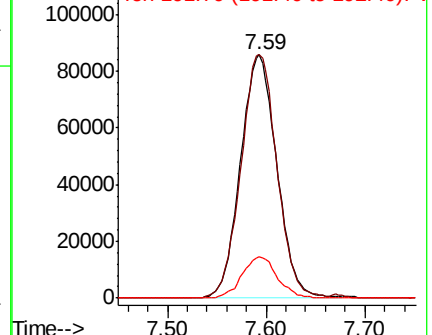
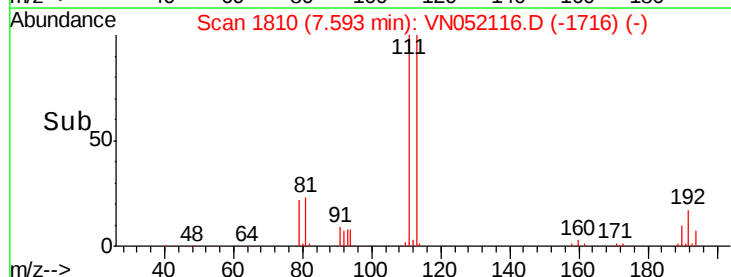
192 16.5 12.7 19.1

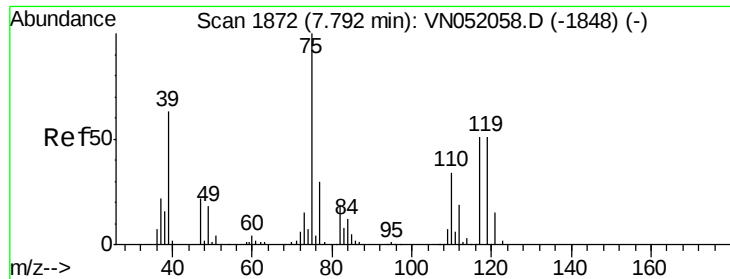


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

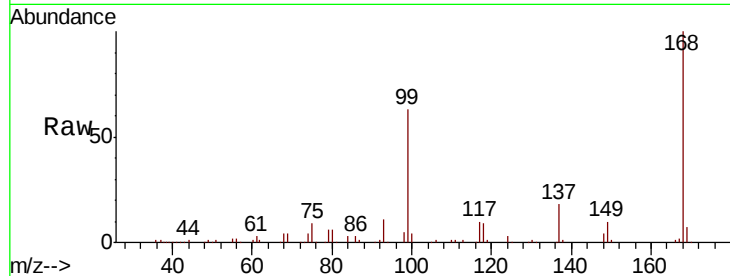




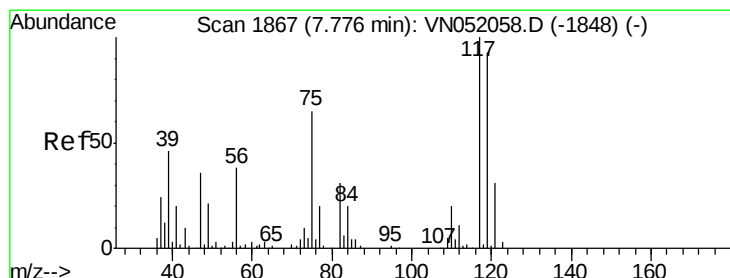
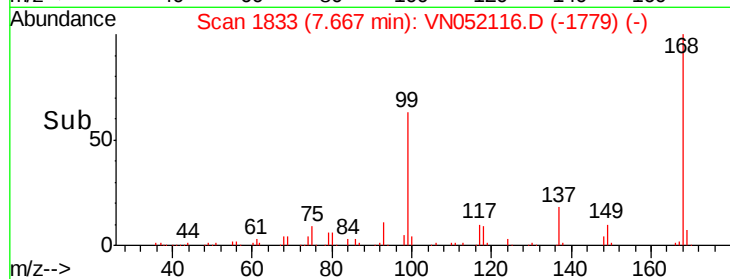
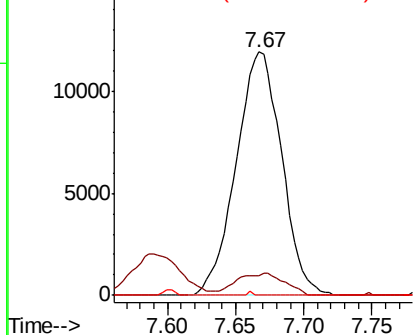
#36
 1,1-Dichloropropene
 Concen: 4.833 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052116.D
 Acq: 2 Nov 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBL01

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.8	16.0	48.0#
77	0.1	24.5	36.7#

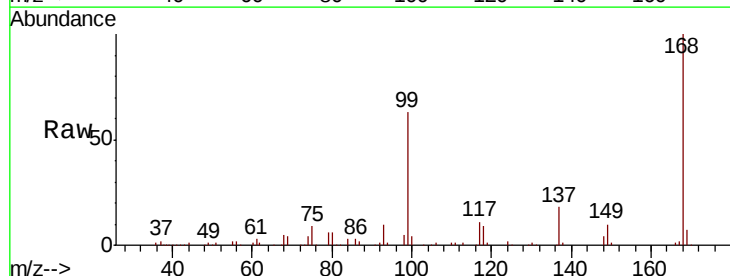


Abundance Ion 74.90 (74.60 to 75.60): VN052058.D (-1848) (-)
 Ion 109.90 (109.60 to 110.60): VN052058.D (-1848) (-)
 Ion 76.90 (76.60 to 77.60): VN052058.D (-1848) (-)

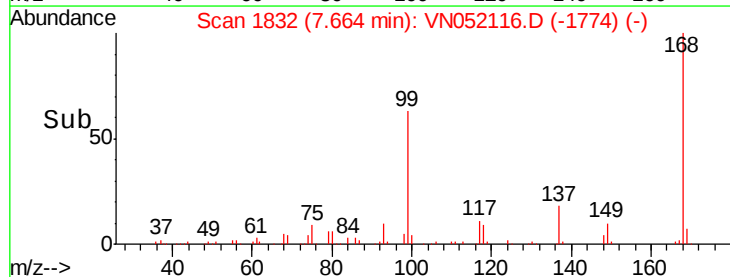
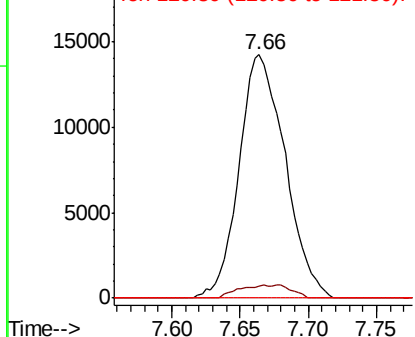


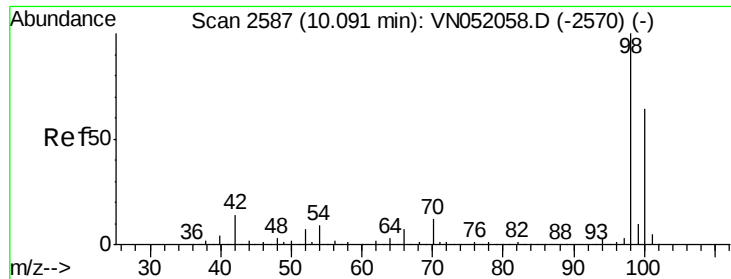
#38
 Carbon Tetrachloride
 Concen: 6.765 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN052116.D
 Acq: 2 Nov 2018 9:20

Tgt 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) (-)





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

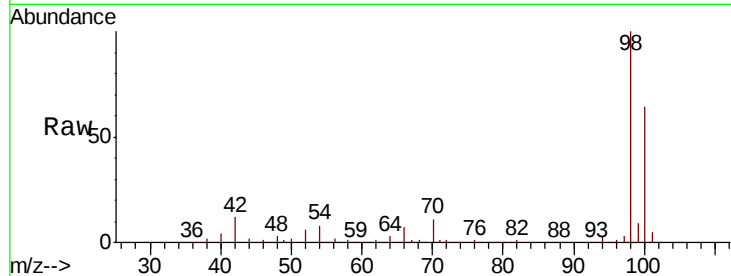
VN1102WBL01

Tot Ion: 98 Resp: 835963

Ion Ratio Lower Upper

98 100

100 63.2 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

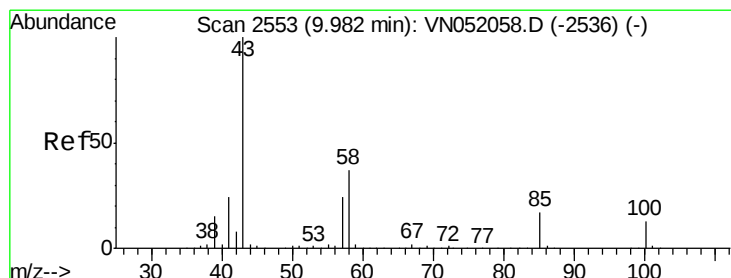
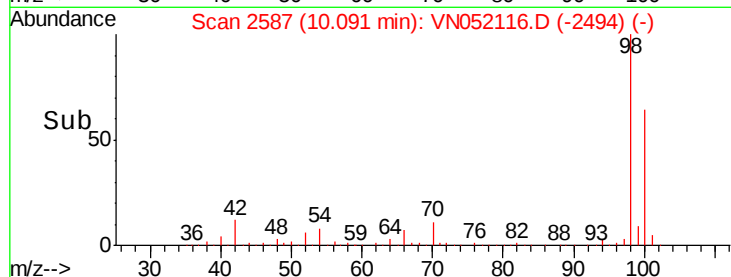
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.220 ug/l

RT: 10.01 min Scan# 2561

Delta R.T. 0.03 min

Lab File: VN052116.D

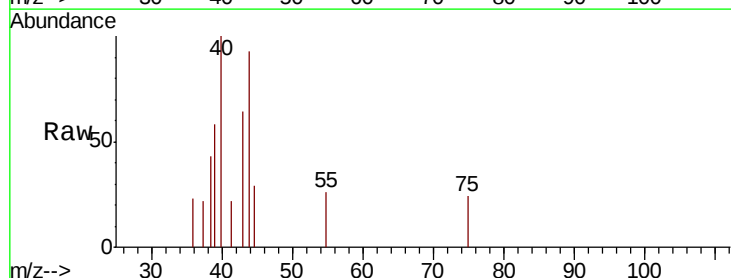
Acq: 2 Nov 2018 9:20

Tgt Ion: 43 Resp: 814

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.01

500

400

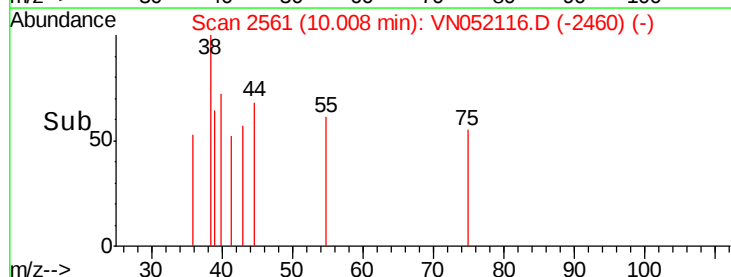
300

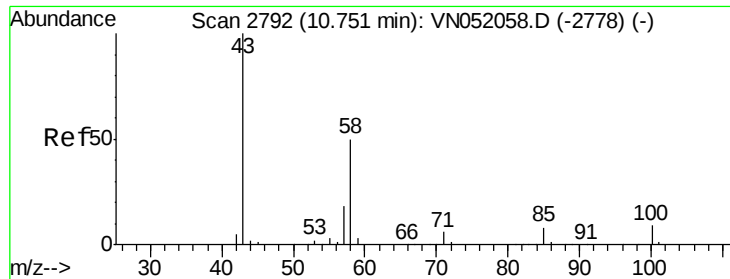
200

100

0

Time-->





#59

2-Hexanone

Concen: 0.289 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

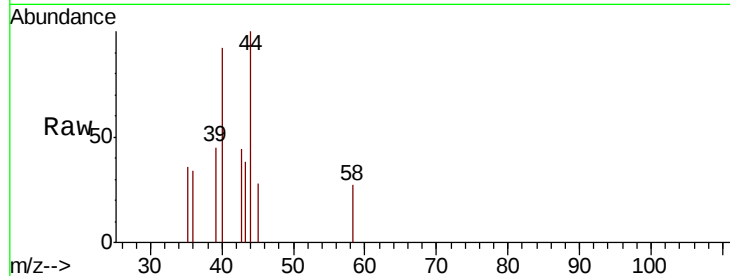
VN1102WBL01

Tot Ion: 43 Resp: 762

Ion Ratio Lower Upper

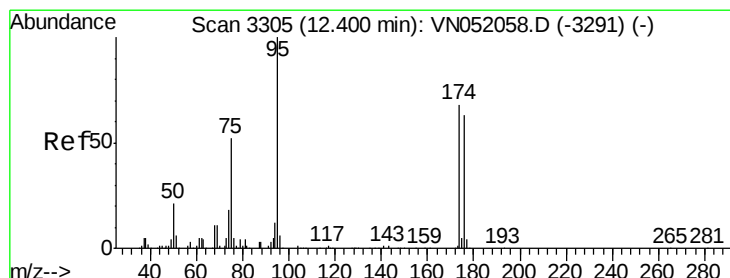
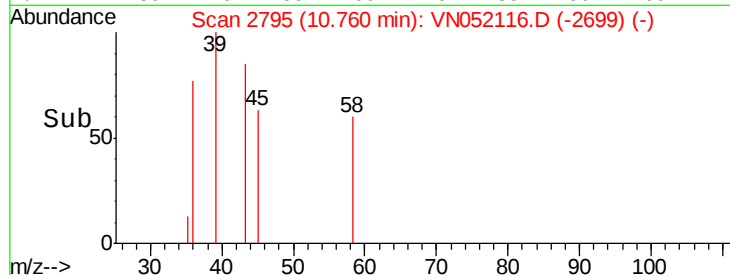
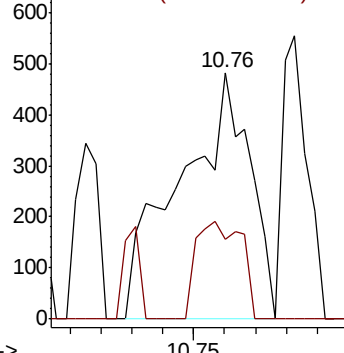
43 100

58 25.9 25.2 75.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

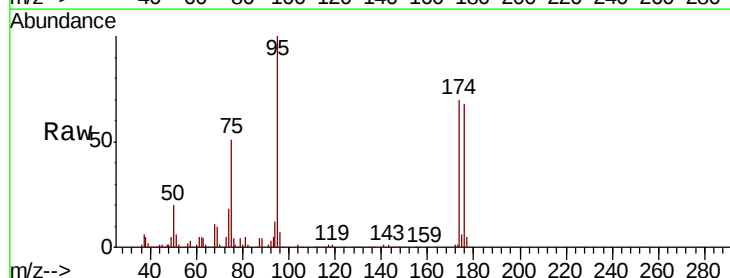
Tgt Ion: 95 Resp: 283062

Ion Ratio Lower Upper

95 100

174 72.3 0.0 131.8

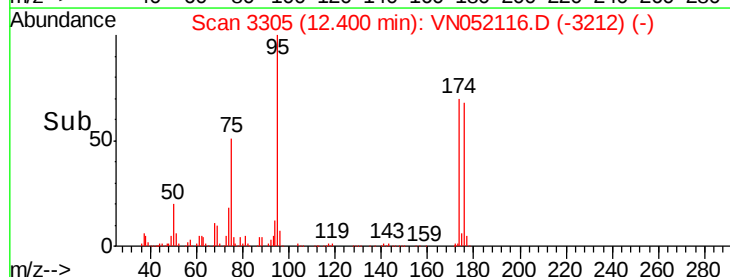
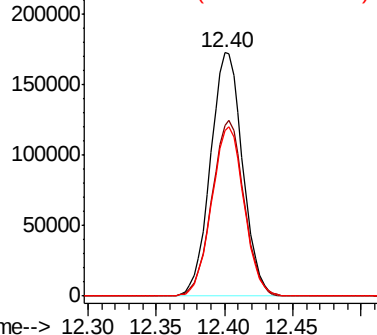
176 69.7 0.0 126.0

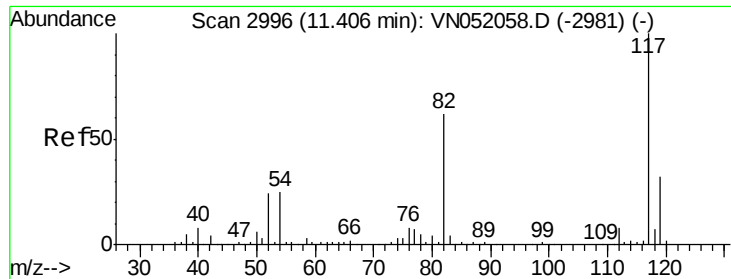


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

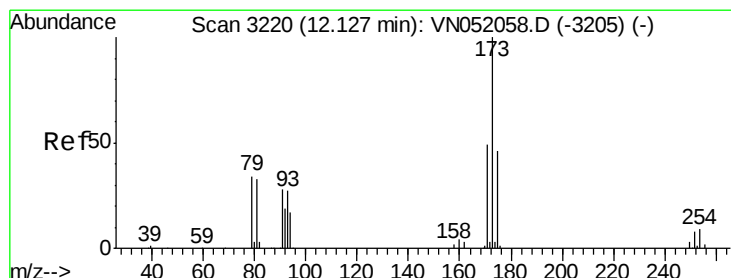
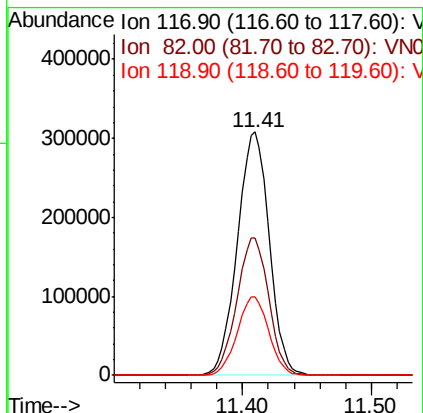
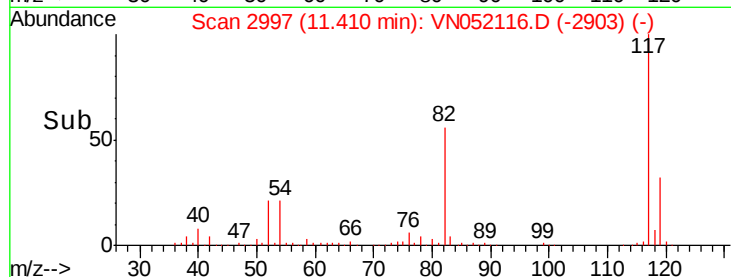
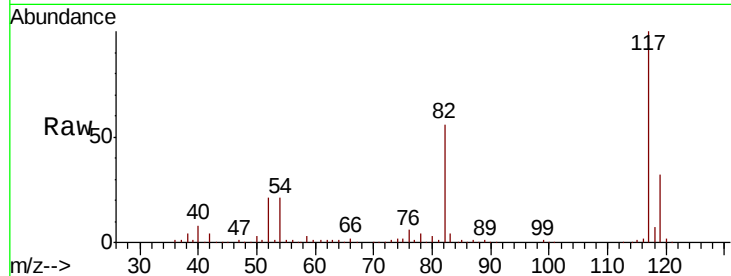




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052116.D
Acq: 2 Nov 2018 9:20

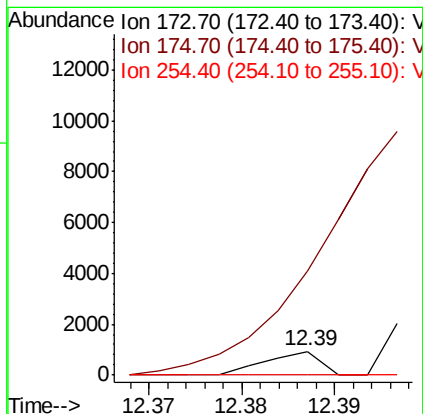
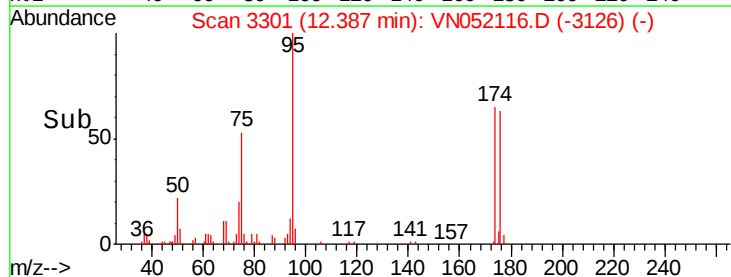
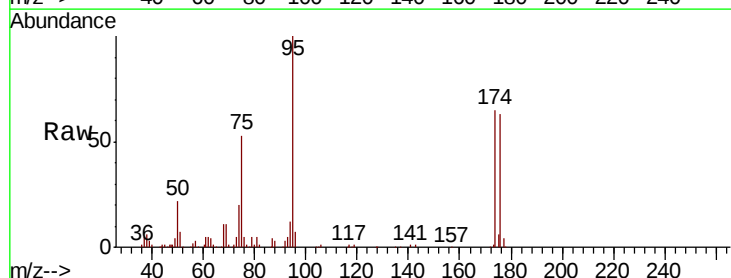
Instrument :
MSVOA_N
ClientSampleId :
VN1102WBL01

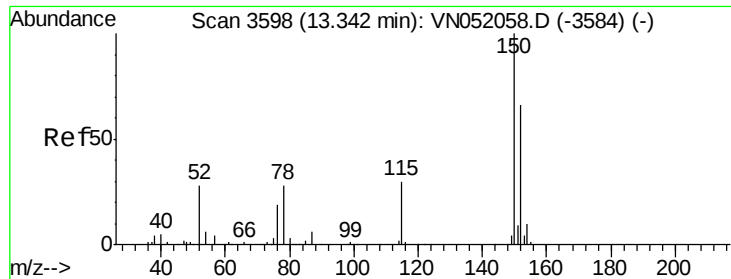
Tot Ion:117 Resp: 530879
Ion Ratio Lower Upper
117 100
82 56.3 49.9 74.9
119 32.2 25.7 38.5



#71
Bromoform
Concen: 2.341 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.26 min
Lab File: VN052116.D
Acq: 2 Nov 2018 9:20

Tgt Ion:173 Resp: 385
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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

VN1102WBL01

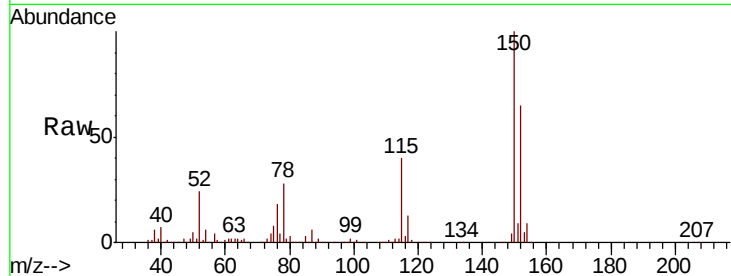
Tot Ion:152 Resp: 214540

Ion Ratio Lower Upper

152 100

115 61.9 31.6 95.0

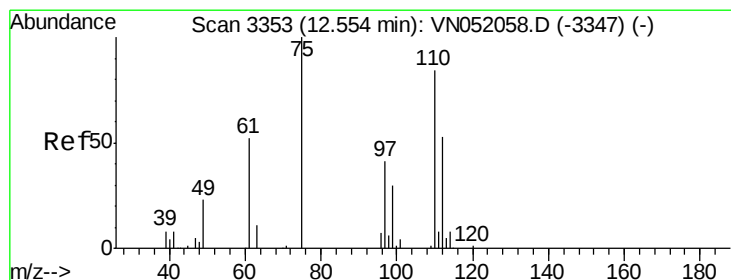
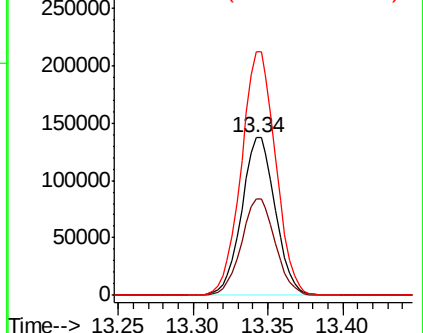
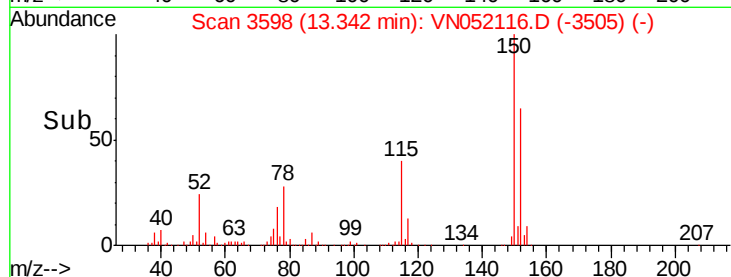
150 157.8 0.0 345.0



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: 37.667 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052116.D

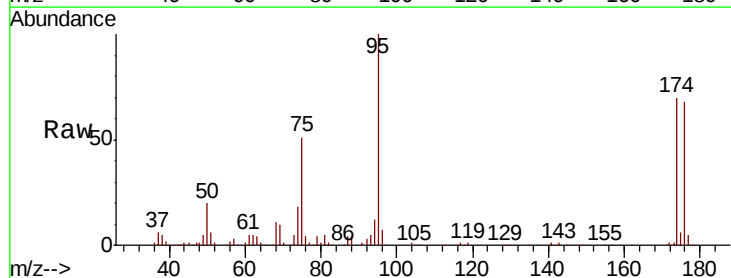
Acq: 2 Nov 2018 9:20

Tgt Ion: 75 Resp: 147929

Ion Ratio Lower Upper

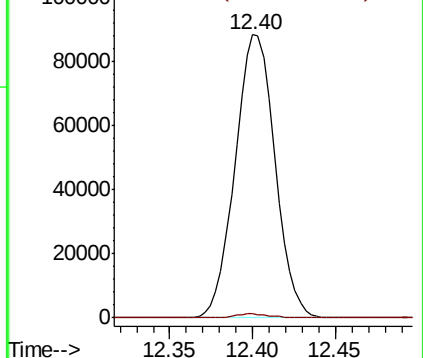
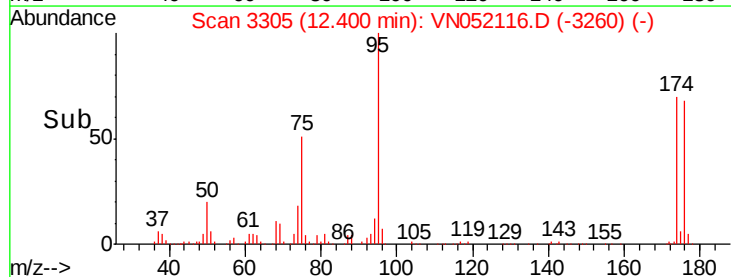
75 100

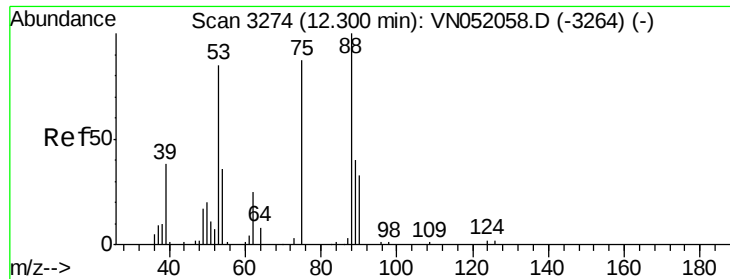
77 1.3 0.0 0.0#



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: 125.024 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

VN1102WBL01

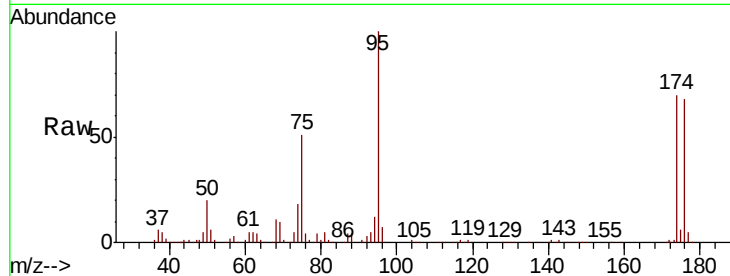
Tot Ion: 75 Resp: 147929

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.6#

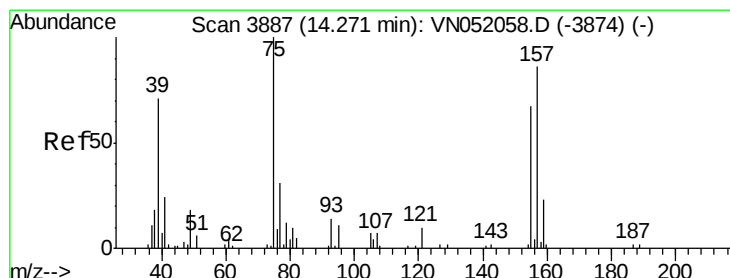
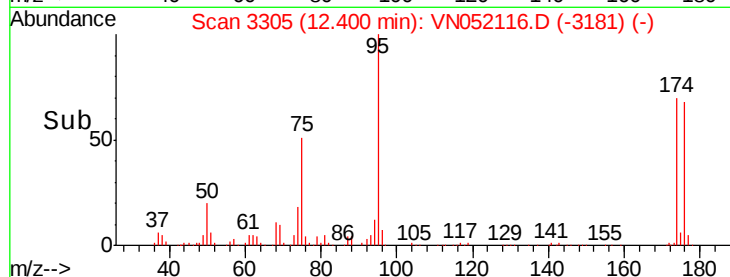
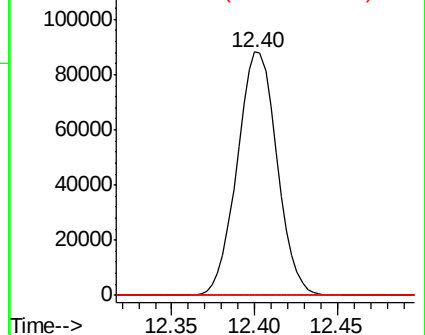
89 0.0 36.6 54.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.018 ug/l

RT: 14.26 min Scan# 3885

Delta R.T. -0.01 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

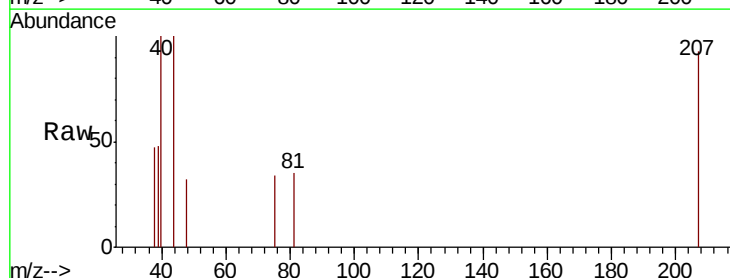
Tgt Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

155 0.0 34.0 102.0#

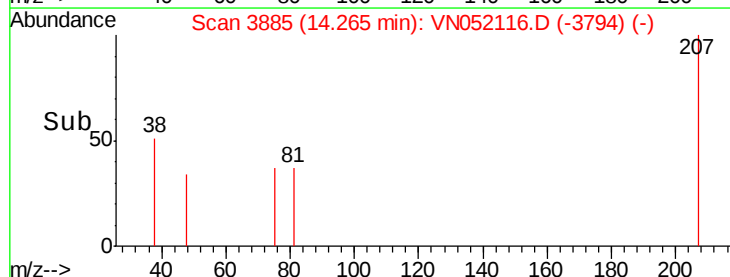
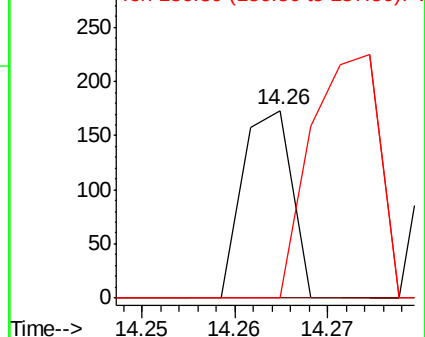
157 0.0 42.1 126.4#

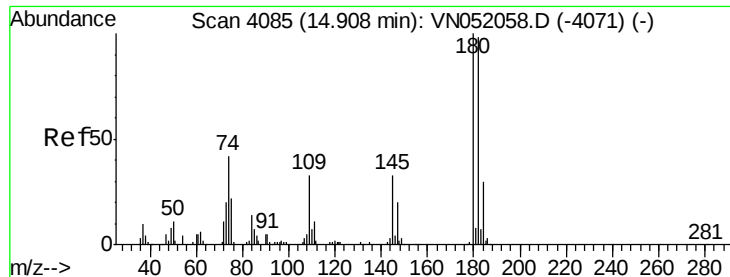


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

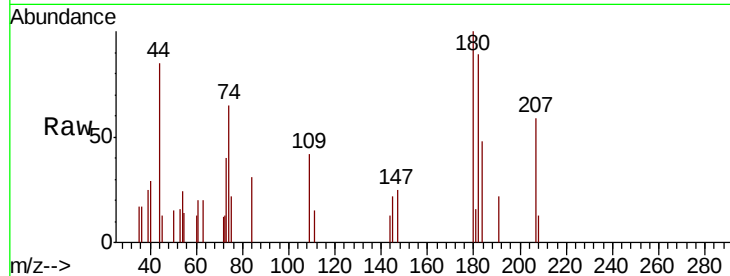




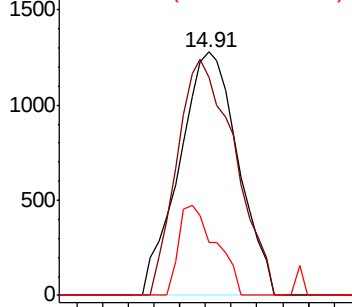
#93
 1,2,4-Trichlorobenzene
 Concen: 0.830 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN052116.D
 Acq: 2 Nov 2018 9:20

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1102WBL01

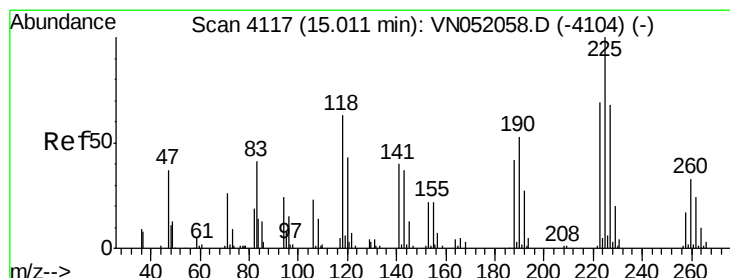
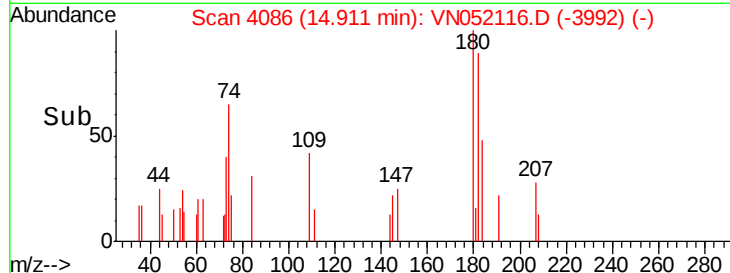
Tot Ion:180 Resp: 2033
 Ion Ratio Lower Upper
 180 100
 182 95.2 49.1 147.4
 145 23.3 16.4 49.2



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

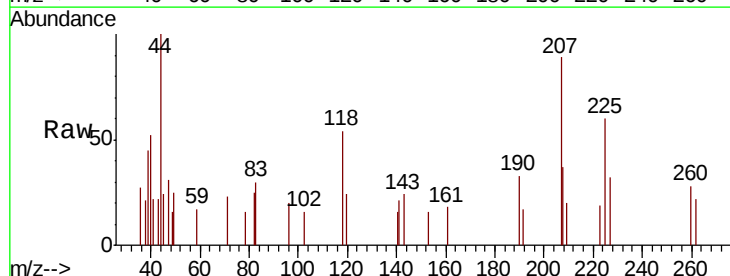


Time-->

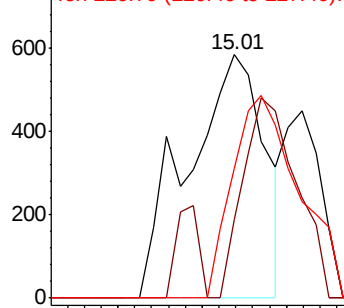


#94
 Hexachlorobutadiene
 Concen: 0.538 ug/l
 RT: 15.01 min Scan# 4116
 Delta R.T. -0.00 min
 Lab File: VN052116.D
 Acq: 2 Nov 2018 9:20

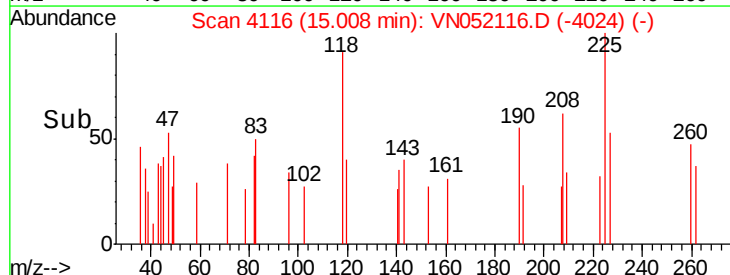
Tgt Ion:225 Resp: 738
 Ion Ratio Lower Upper
 225 100
 223 57.7 33.1 99.3
 227 71.7 32.6 97.8

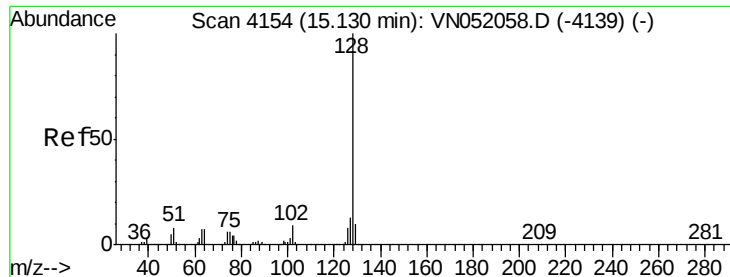


Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V



Time-->





#95

Naphthalene

Concen: 0.824 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

Instrument :

MSVOA_N

ClientSampled :

VN1102WBL01

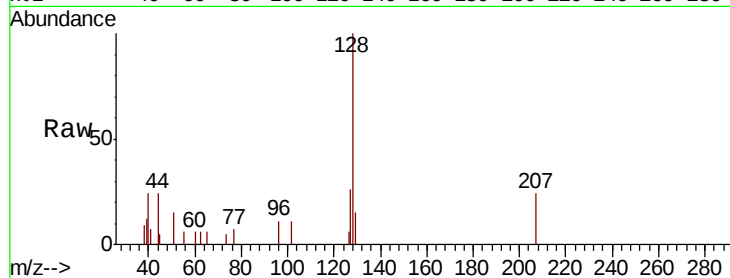
Tot Ion:128 Resp: 5067

Ion Ratio Lower Upper

128 100

127 18.8 10.5 15.7#

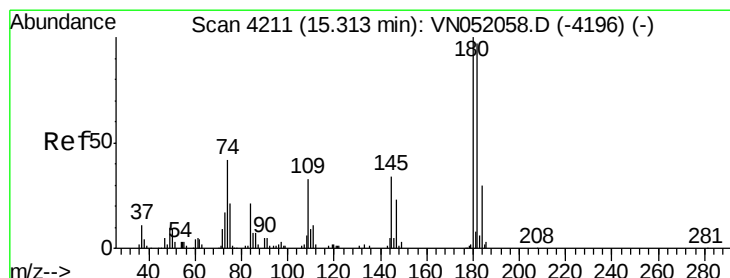
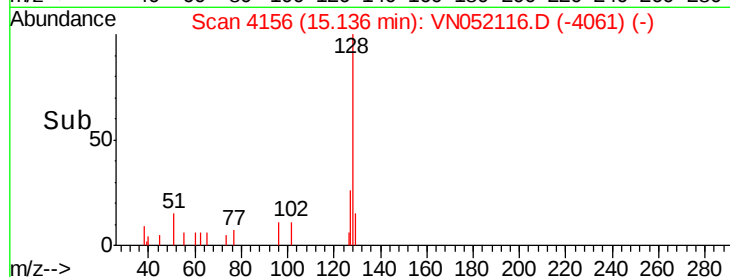
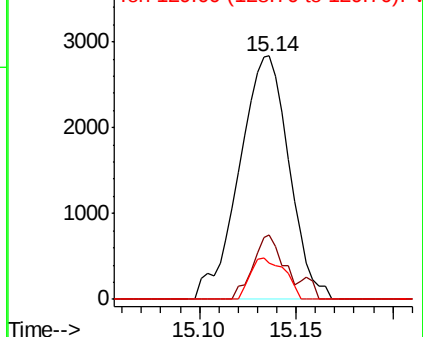
129 11.7 8.6 12.8



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



#96

1,2,3-Trichlorobenzene

Concen: 1.156 ug/l

RT: 15.32 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN052116.D

Acq: 2 Nov 2018 9:20

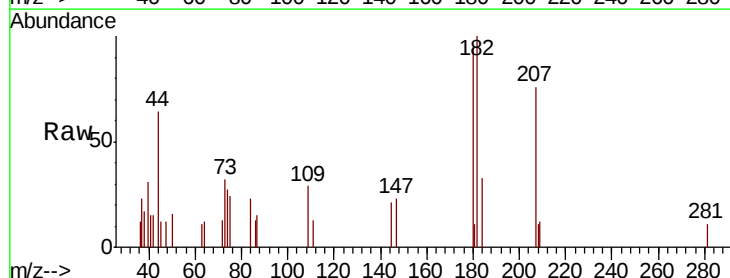
Tgt Ion:180 Resp: 2444

Ion Ratio Lower Upper

180 100

182 104.9 47.2 141.6

145 25.3 16.6 49.7



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

