

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112119\
 Data File : VN059329.D
 Acq On : 21 Nov 2019 12:44
 Operator : JC/SP
 Sample : VN1121WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 22 05:58:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 21 08:44:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	408859	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	632495	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	530655	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	184288	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	234281	47.76	ug/l	0.00
Spiked Amount			Recovery	=	95.52%	
35) Dibromofluoromethane	7.57	113	187527	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
50) Toluene-d8	10.08	98	756214	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
62) 4-Bromofluorobenzene	12.40	95	230968	43.79	ug/l	0.00
Spiked Amount			Recovery	=	87.58%	

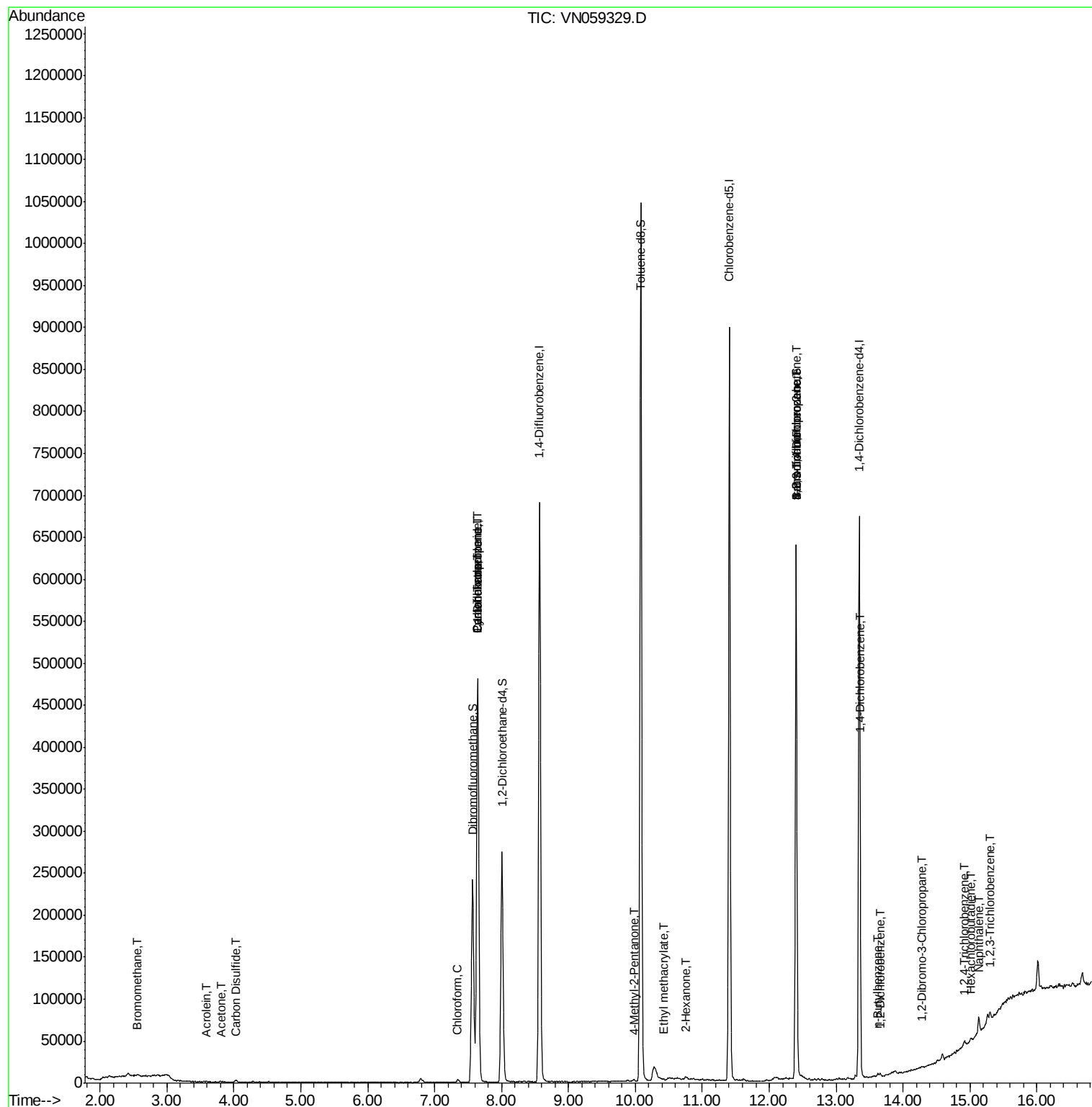
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	737	0.201	ug/l	93
13) Acrolein	3.59	56	590	0.658	ug/l #	66
16) Acetone	3.80	43	667	0.303	ug/l #	42
17) Carbon Disulfide	4.03	76	4415	0.458	ug/l #	88
30) Chloroform	7.34	83	3833	0.315	ug/l	92
31) Cyclohexane	7.64	56	7715	0.893	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	29510	4.519	ug/l #	49
38) Carbon Tetrachloride	7.64	117	38540	6.166	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	1684	0.268	ug/l #	86
56) Ethyl methacrylate	10.43	69	154	2.212	ug/l #	53
59) 2-Hexanone	10.75	43	2842	0.618	ug/l	88
71) Bromoform	12.41	173	1191	0.379	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	111788	26.257	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	111788	65.672	ug/l #	14
88) 1,4-Dichlorobenzene	13.37	146	1824	0.283	ug/l #	1
89) n-Butylbenzene	13.62	91	2415	0.215	ug/l	95
91) 1,2-Dichlorobenzene	13.66	146	1522	0.241	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	395	0.372	ug/l #	25
93) 1,2,4-Trichlorobenzene	14.92	180	3004	3.659	ug/l	94
94) Hexachlorobutadiene	15.02	225	784	0.345	ug/l	83
95) Naphthalene	15.13	128	14246	4.396	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	4708	3.077	ug/l	91

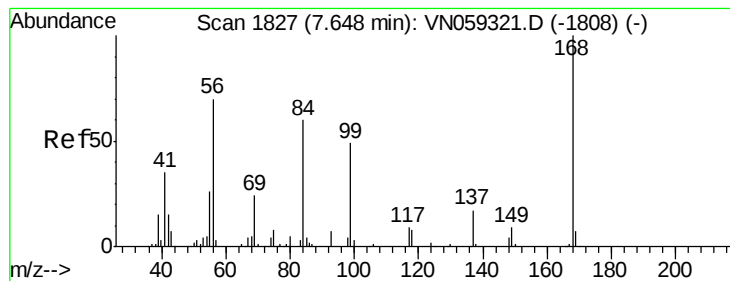
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 21 08:44:45 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

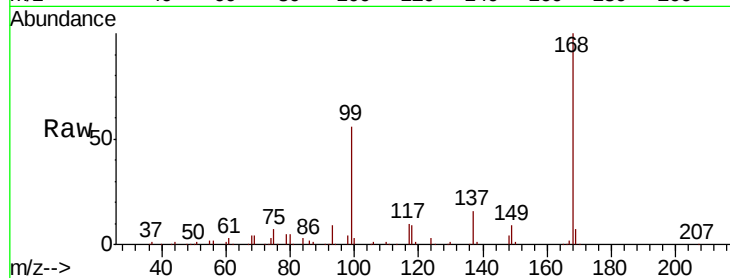
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 408859

Ion Ratio Lower Upper

168 100

99 56.2 44.6 66.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

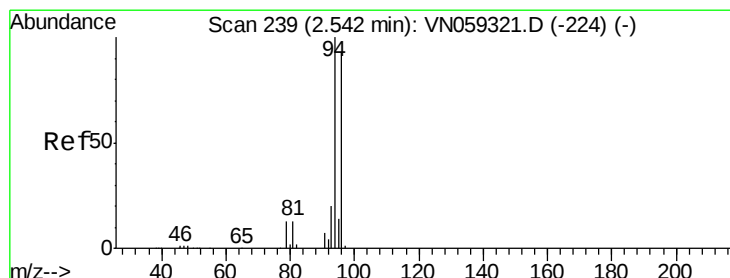
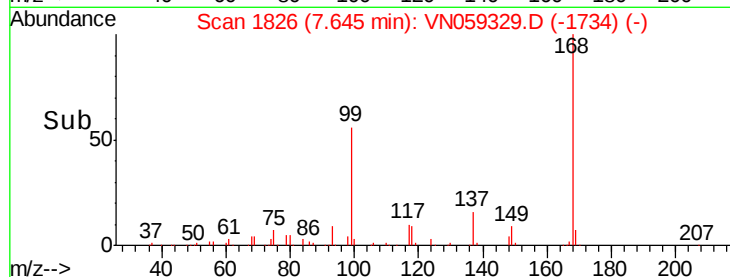
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#5

Bromomethane

Concen: 0.201 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN059329.D

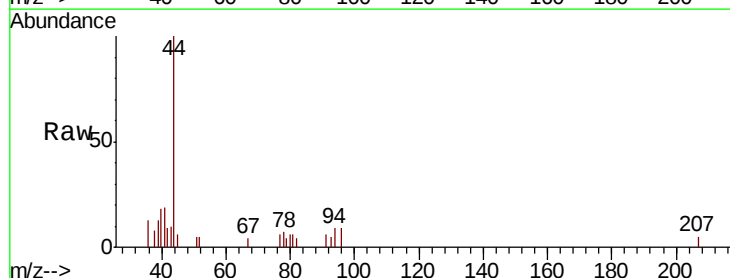
Acq: 21 Nov 2019 12:44

Tgt Ion: 94 Resp: 737

Ion Ratio Lower Upper

94 100

96 99.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

400

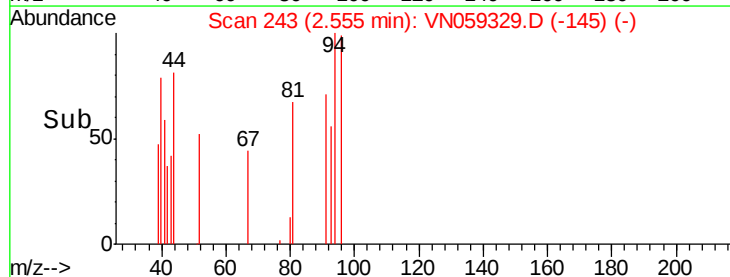
300

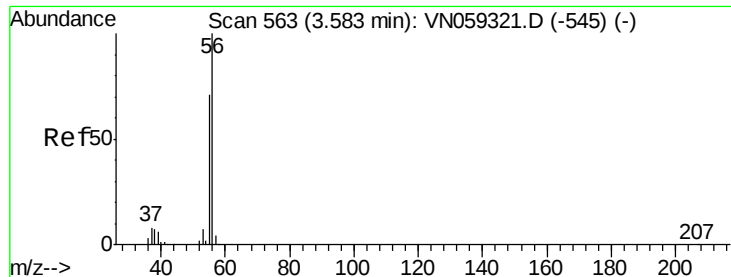
200

100

0

Time--> 2.50 2.55 2.60





#13

Acrolein

Concen: 0.658 ug/l

RT: 3.59 min Scan# 565

Delta R.T. 0.01 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :

MSVOA_N

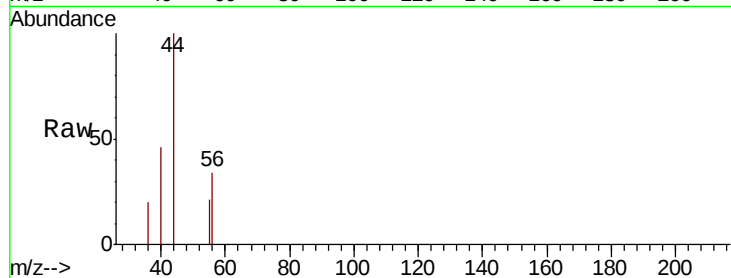
ClientSampled :

Tot Ion: 56 Resp: 590

Ion Ratio Lower Upper

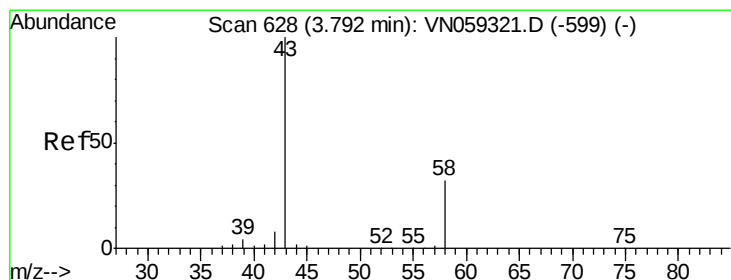
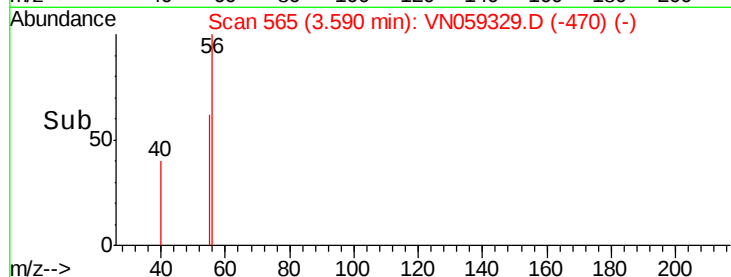
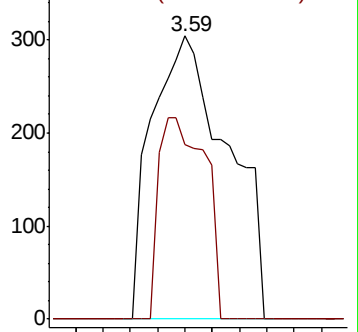
56 100

55 43.6 57.4 86.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.303 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN059329.D

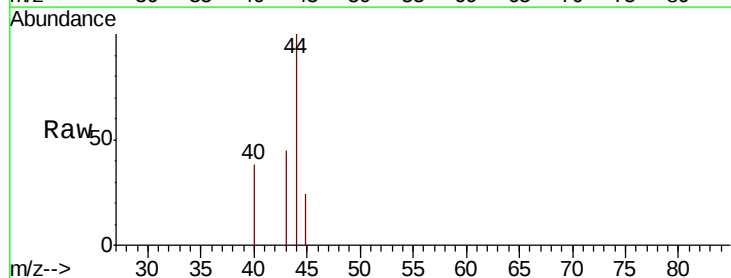
Acq: 21 Nov 2019 12:44

Tgt Ion: 43 Resp: 667

Ion Ratio Lower Upper

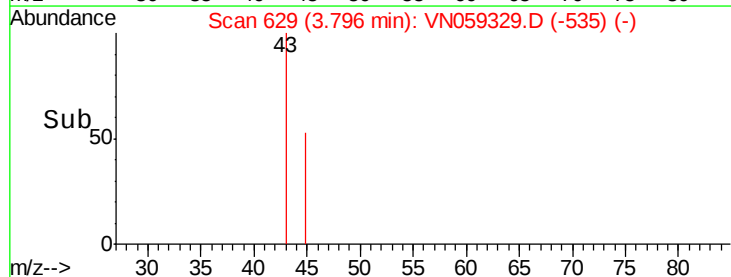
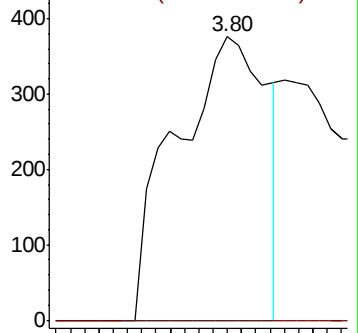
43 100

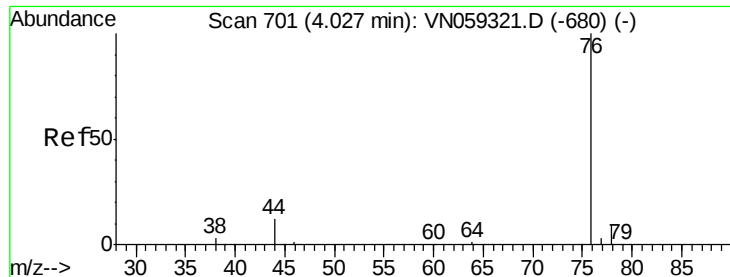
58 0.0 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

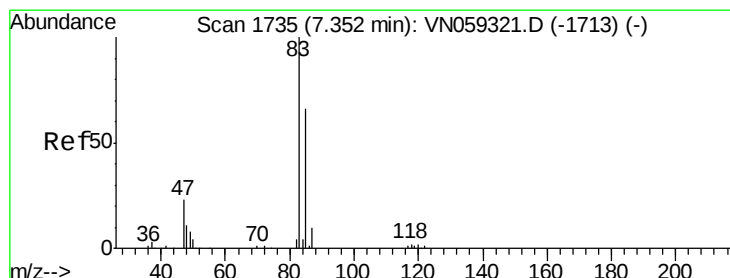
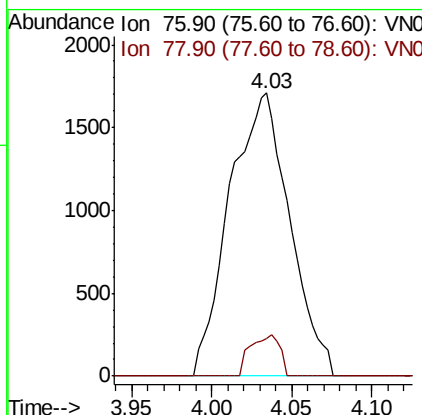
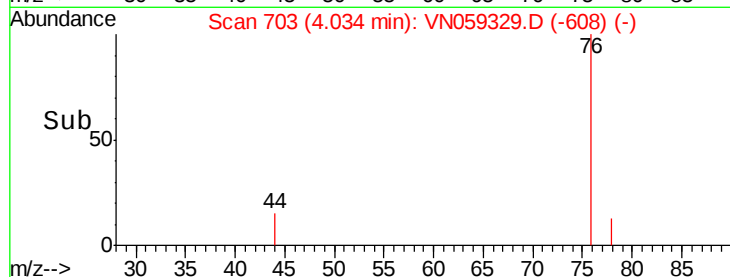
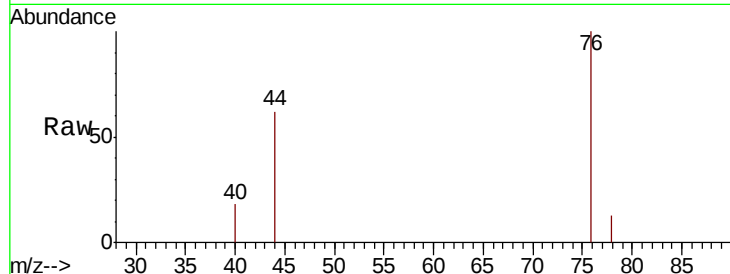




#17
Carbon Disulfide
Concen: 0.458 ug/l
RT: 4.03 min Scan# 703
Delta R.T. 0.01 min
Lab File: VN059329.D
Acq: 21 Nov 2019 12:44

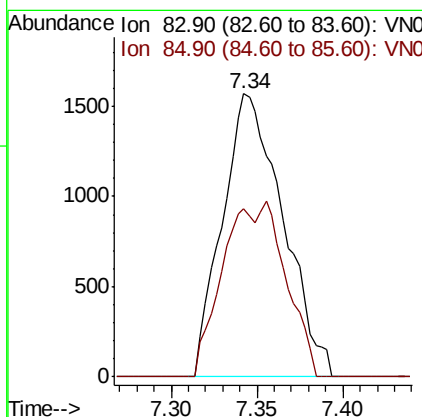
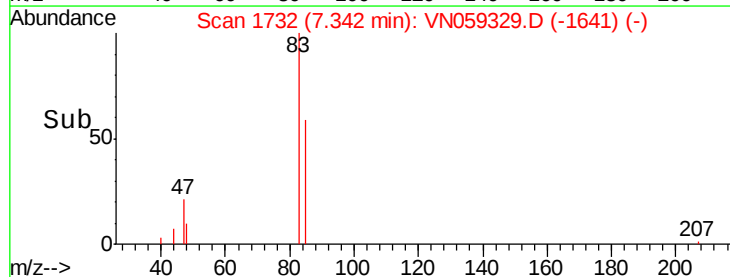
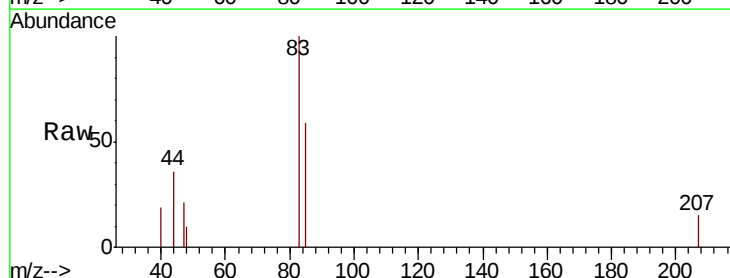
Instrument :
MSVOA_N
ClientSampleId :

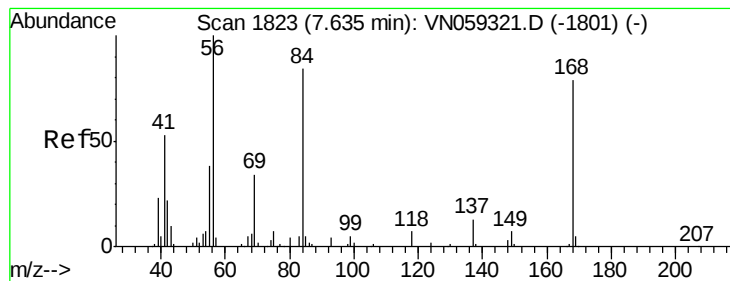
Tot Ion: 76 Resp: 4415
Ion Ratio Lower Upper
76 100
78 13.3 7.2 10.8#



#30
Chloroform
Concen: 0.315 ug/l
RT: 7.34 min Scan# 1732
Delta R.T. -0.01 min
Lab File: VN059329.D
Acq: 21 Nov 2019 12:44

Tgt Ion: 83 Resp: 3833
Ion Ratio Lower Upper
83 100
85 59.4 52.7 79.1





#31

Cyclohexane

Concen: 0.893 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :
MSVOA_N
ClientSampled :

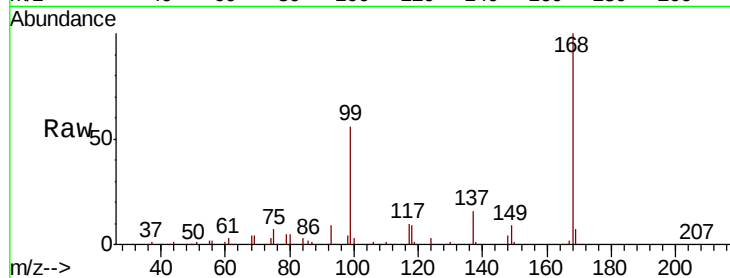
Tot Ion: 56 Resp: 7715

Ion Ratio Lower Upper

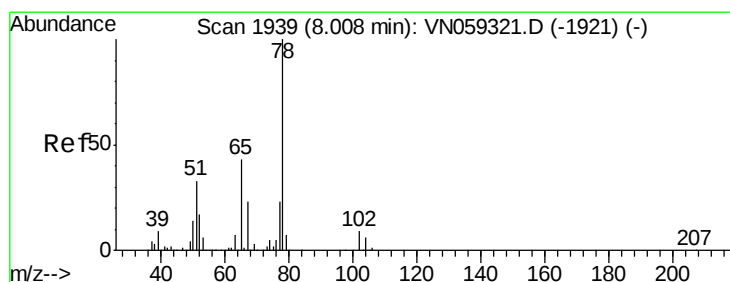
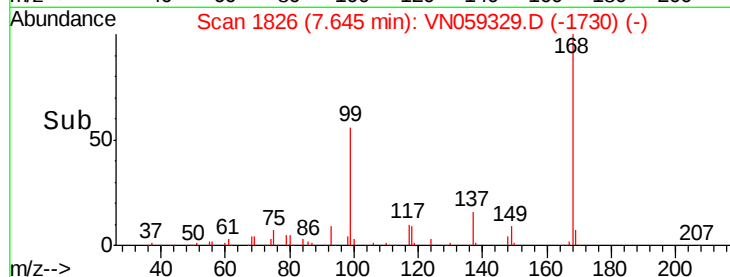
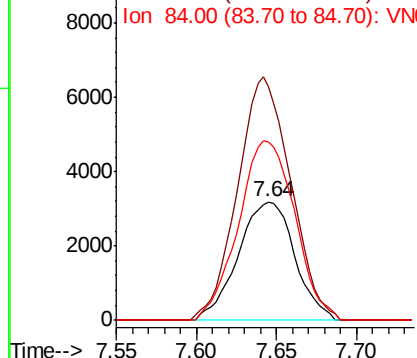
56 100

69 196.9 26.6 40.0#

84 150.5 67.0 100.4#



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: 47.757 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN059329.D

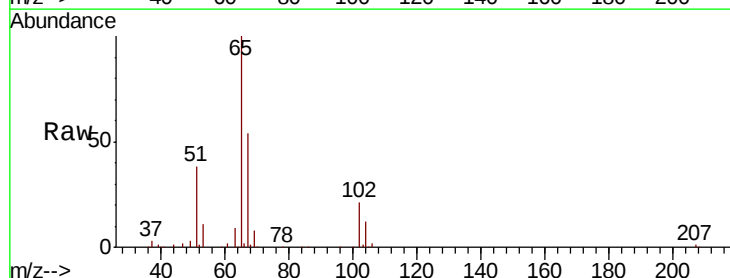
Acq: 21 Nov 2019 12:44

Tgt Ion: 65 Resp: 234281

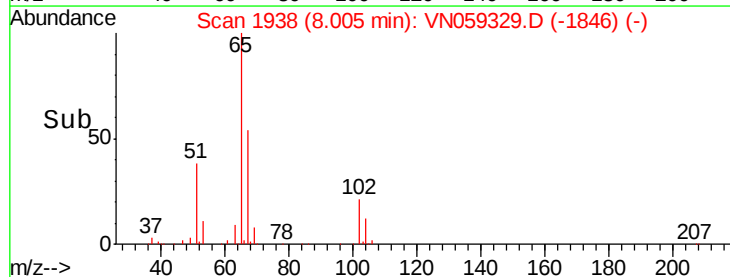
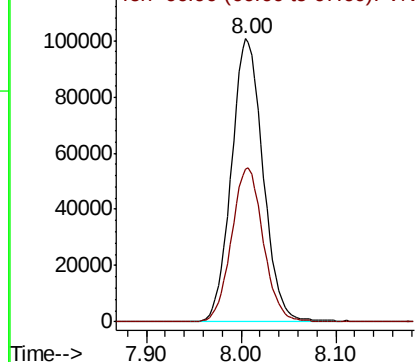
Ion Ratio Lower Upper

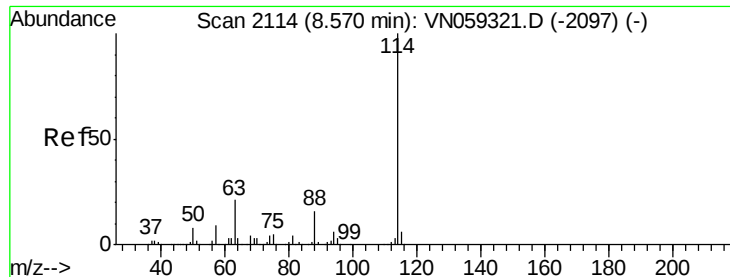
65 100

67 54.5 0.0 109.4



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

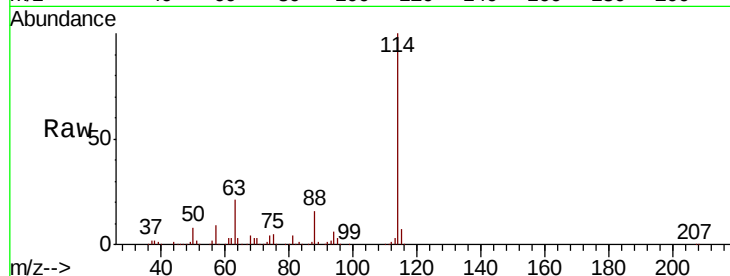




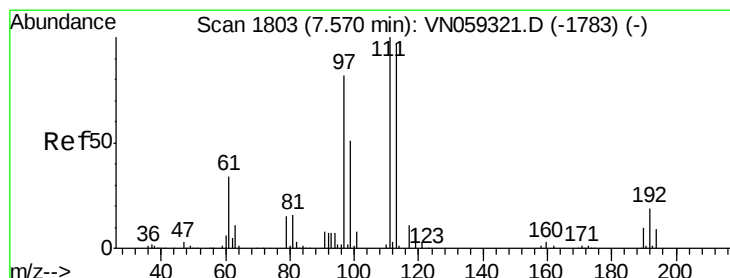
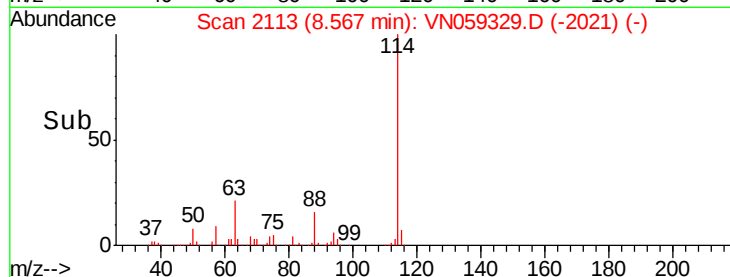
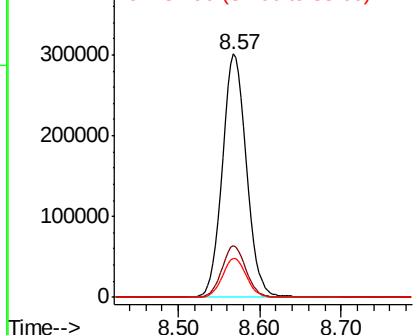
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. -0.00 min
Lab File: VN059329.D
Acq: 21 Nov 2019 12:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 632495
Ion Ratio Lower Upper
114 100
63 21.3 0.0 42.2
88 16.0 0.0 32.2

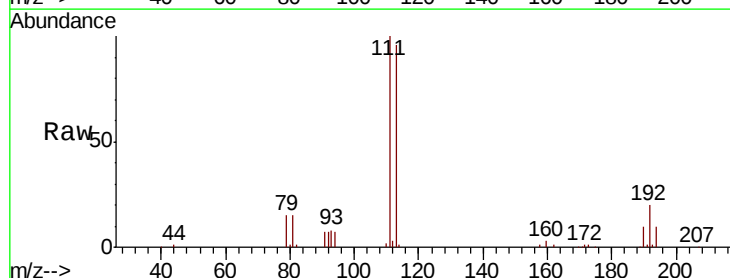


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

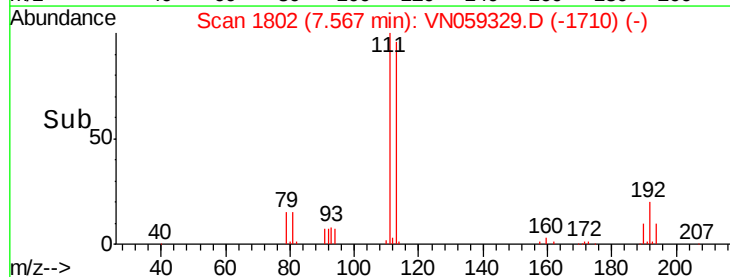
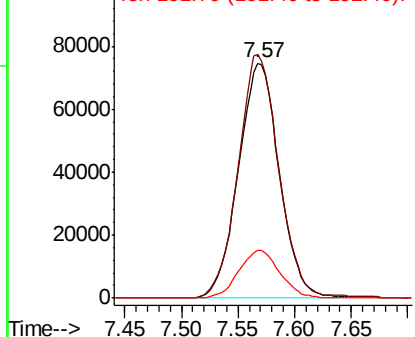


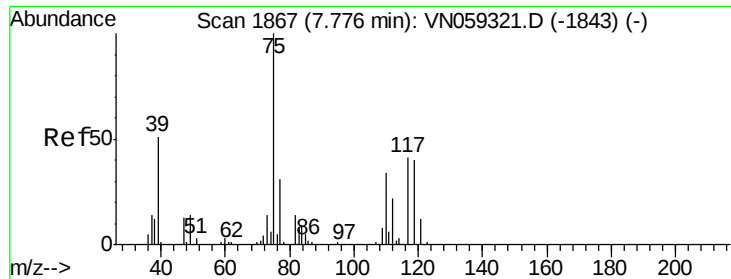
#35
Dibromofluoromethane
Concen: 49.419 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN059329.D
Acq: 21 Nov 2019 12:44

Tgt Ion:113 Resp: 187527
Ion Ratio Lower Upper
113 100
111 103.5 82.7 124.1
192 20.4 16.3 24.5



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: 4.519 ug/l

RT: 7.64 min Scan# 1826

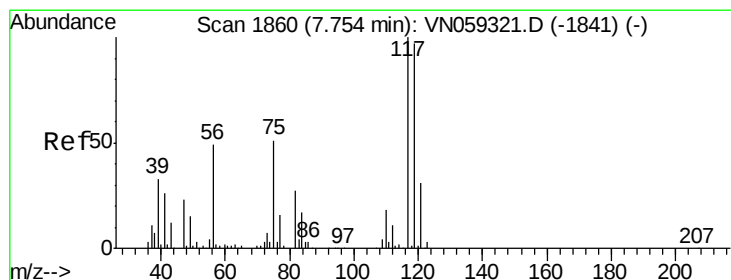
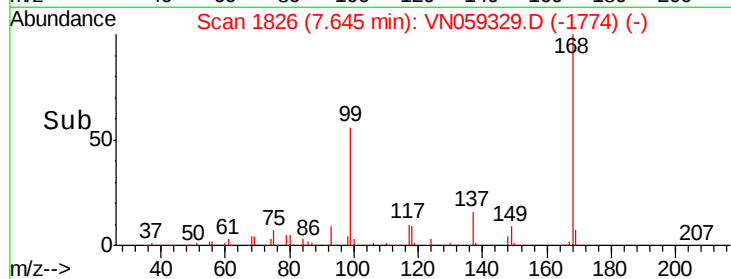
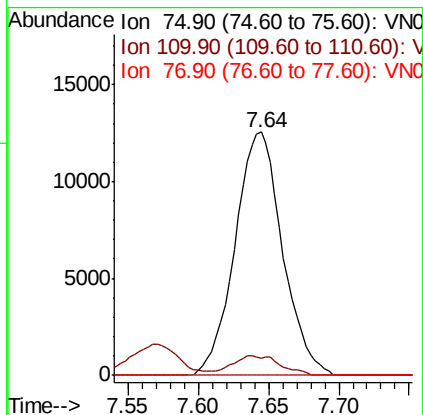
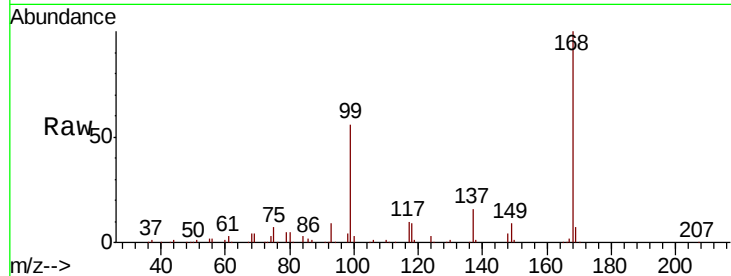
Delta R.T. -0.13 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 29510
Ion Ratio Lower Upper
75 100
110 8.1 17.0 51.0#
77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.166 ug/l

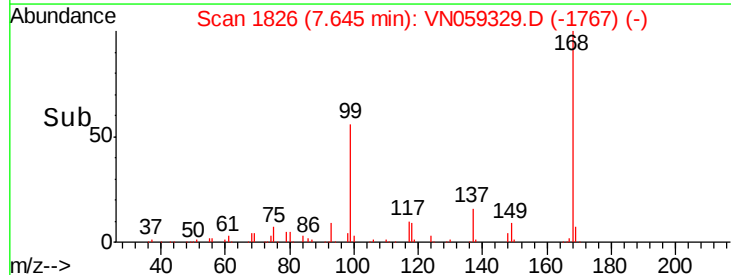
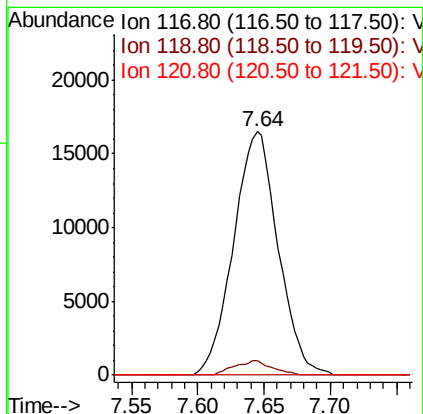
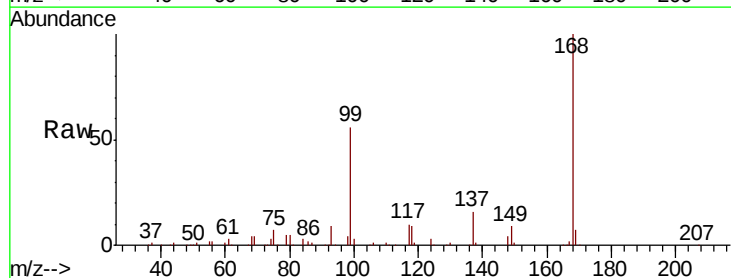
RT: 7.64 min Scan# 1826

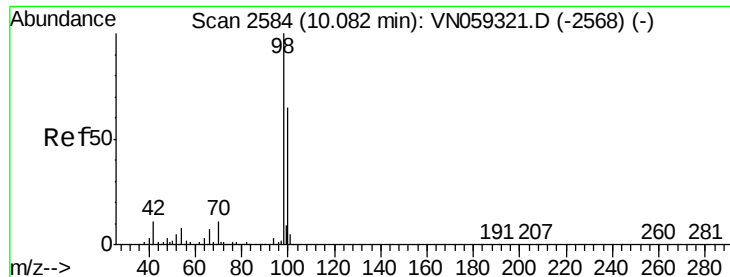
Delta R.T. -0.11 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Tgt Ion: 117 Resp: 38540
Ion Ratio Lower Upper
117 100
119 5.9 77.0 115.4#
121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 50.129 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :

MSVOA_N

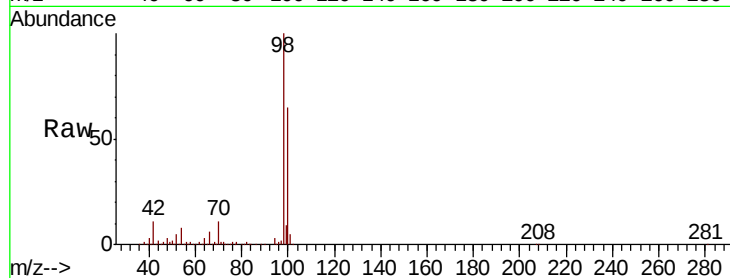
ClientSampleId :

Tot Ion: 98 Resp: 756214

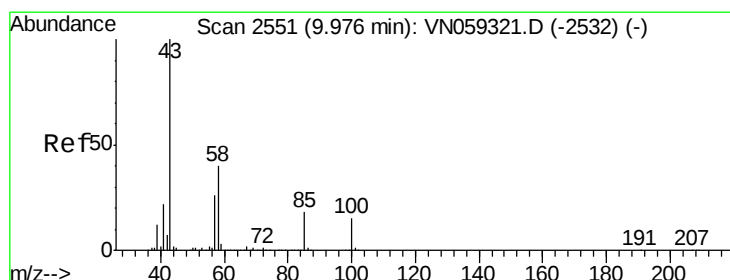
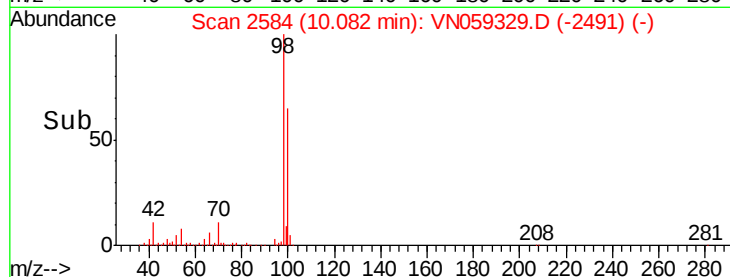
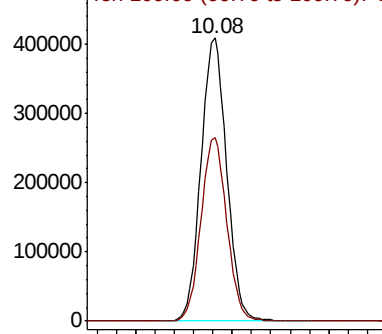
Ion Ratio Lower Upper

98 100

100 64.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN059321.D (-2568) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.268 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059329.D

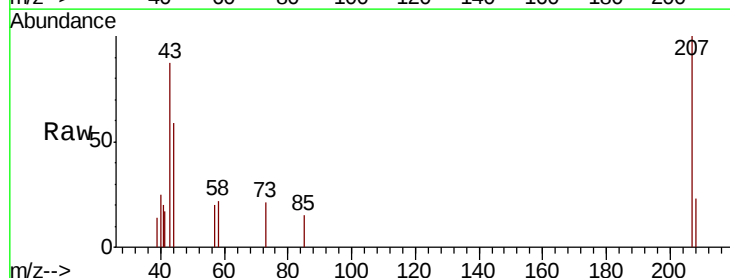
Acq: 21 Nov 2019 12:44

Tgt Ion: 43 Resp: 1684

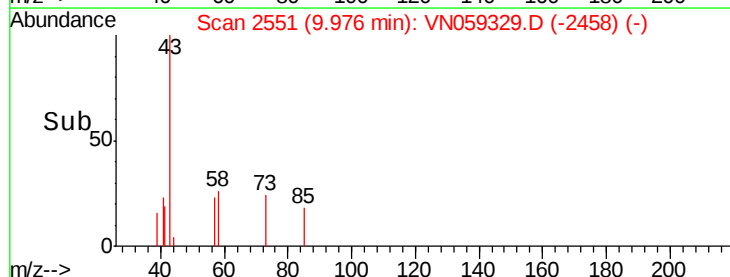
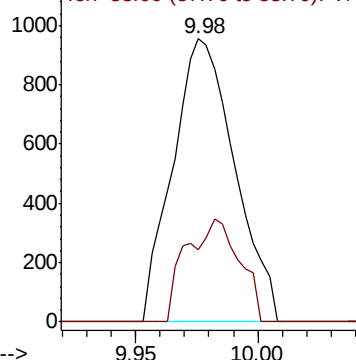
Ion Ratio Lower Upper

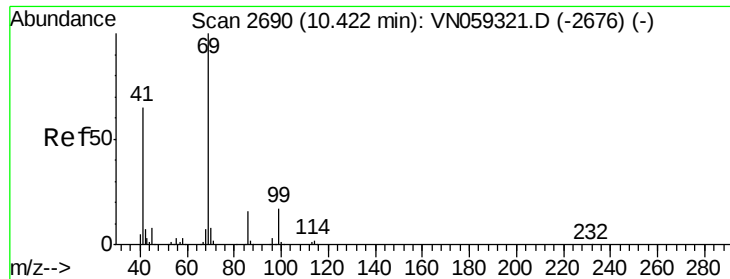
43 100

58 31.2 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VN059321.D (-2532) (-)





#56

Ethyl methacrylate

Concen: 2.212 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :

MSVOA_N

ClientSampled :

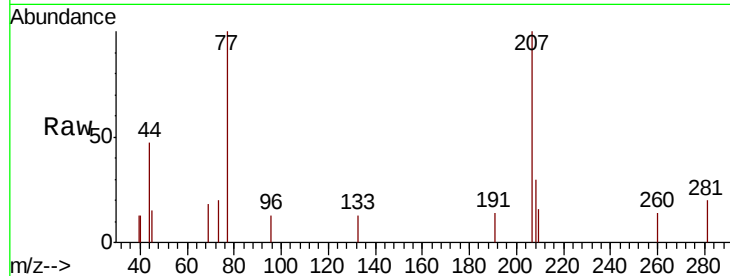
Tot Ion: 69 Resp: 154

Ion Ratio Lower Upper

69 100

41 97.4 51.7 77.5#

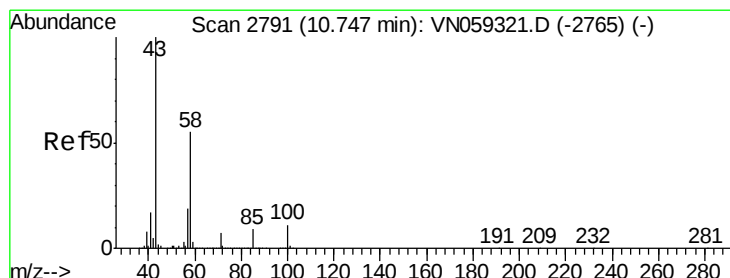
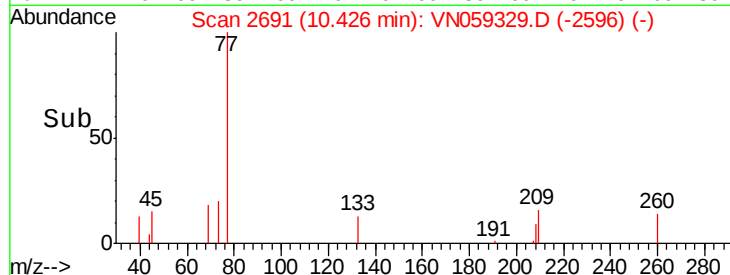
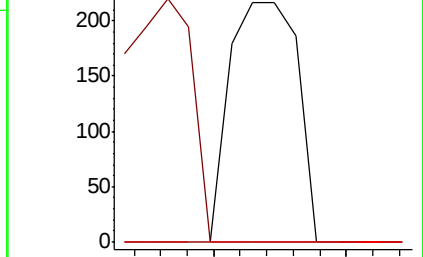
39 0.0 25.2 37.8#



Abundance Ion 69.00 (68.70 to 69.70): VN059321.D (-2676) (-)

Ion 41.00 (40.70 to 41.70): VN059321.D (-2676) (-)

Ion 39.00 (38.70 to 39.70): VN059321.D (-2676) (-)



#59

2-Hexanone

Concen: 0.618 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. 0.00 min

Lab File: VN059329.D

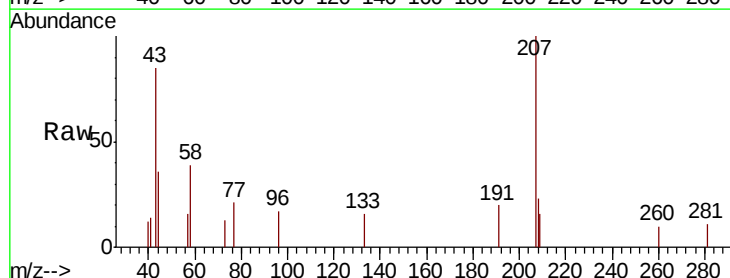
Acq: 21 Nov 2019 12:44

Tgt Ion: 43 Resp: 2842

Ion Ratio Lower Upper

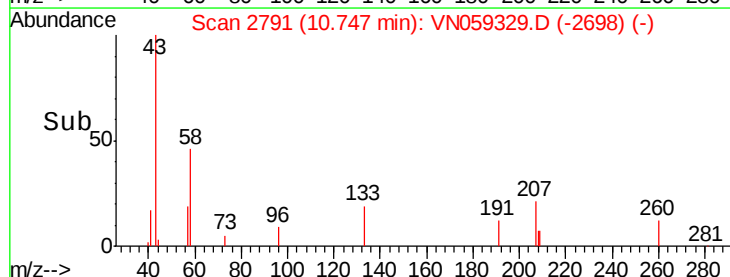
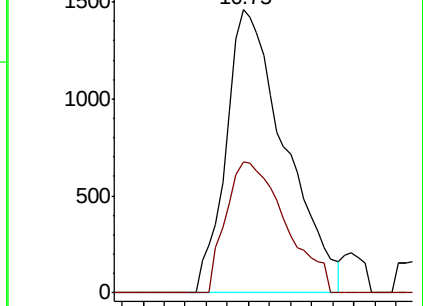
43 100

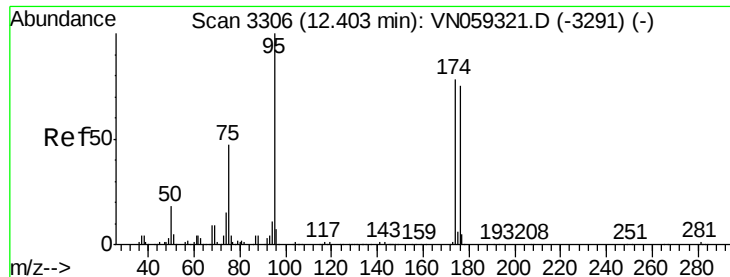
58 46.6 27.7 83.0



Abundance Ion 43.00 (42.70 to 43.70): VN059321.D (-2765) (-)

Ion 58.00 (57.70 to 58.70): VN059321.D (-2765) (-)





#62

4-Bromofluorobenzene

Concen: 43.788 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :

MSVOA_N

ClientSampleId :

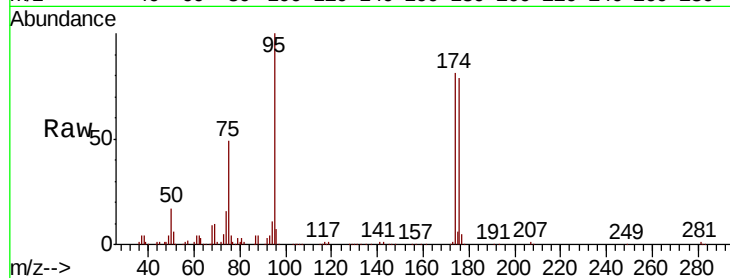
Tot Ion: 95 Resp: 230968

Ion Ratio Lower Upper

95 100

174 79.9 0.0 157.4

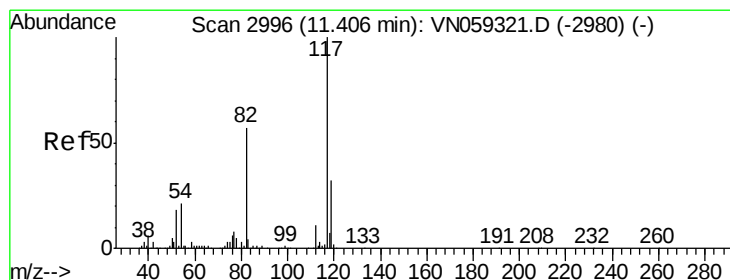
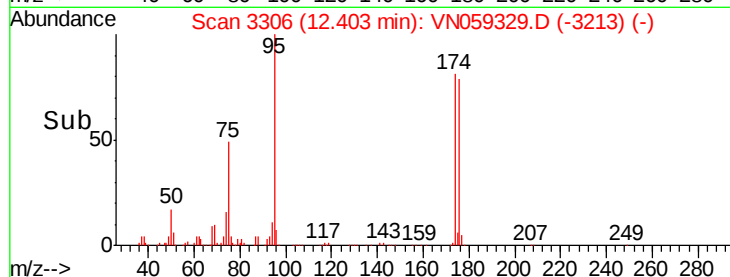
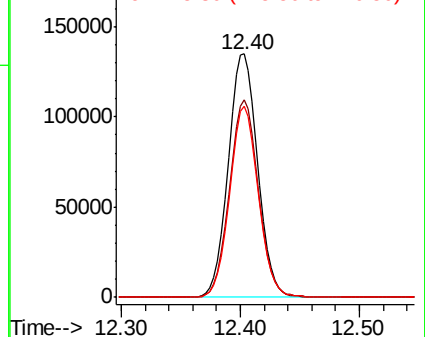
176 76.5 0.0 151.2



Abundance Ion 94.90 (94.60 to 95.60): VN059321.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059321.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059321.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

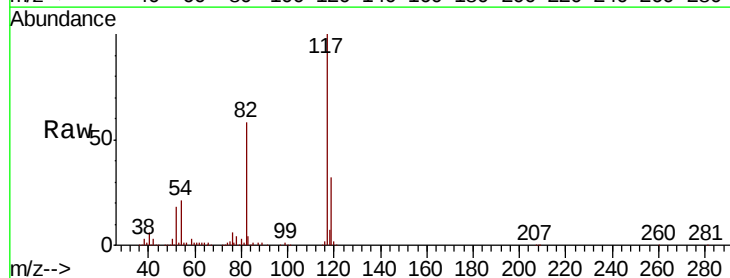
Tgt Ion: 117 Resp: 530655

Ion Ratio Lower Upper

117 100

82 57.6 45.7 68.5

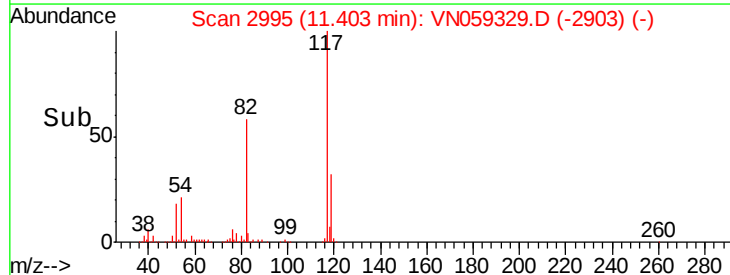
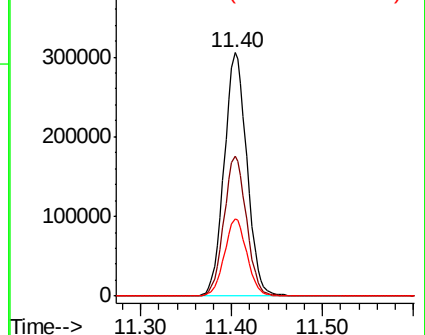
119 31.7 25.8 38.6

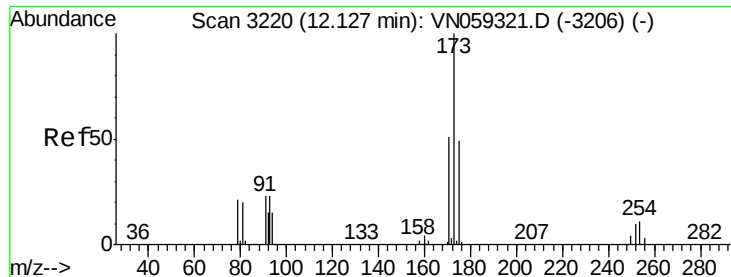


Abundance Ion 116.90 (116.60 to 117.60): VN059321.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN059321.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN059321.D (-2980) (-)





#71

Bromoform

Concen: 0.379 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :

MSVOA_N

ClientSampled :

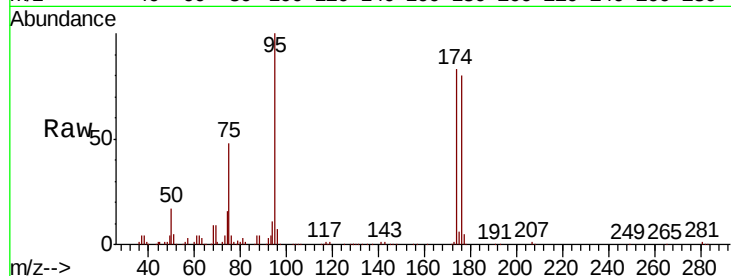
Tot Ion:173 Resp: 1191

Ion Ratio Lower Upper

173 100

175 935.9 24.6 73.6#

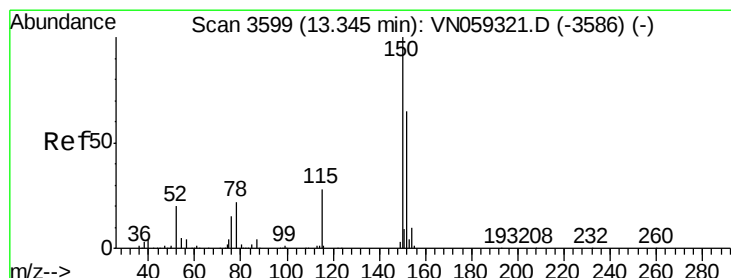
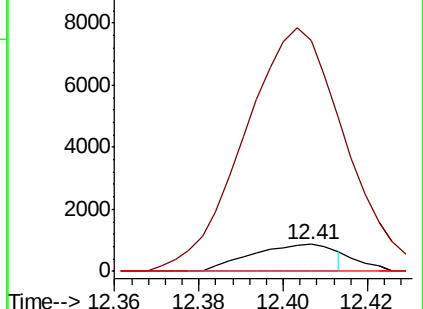
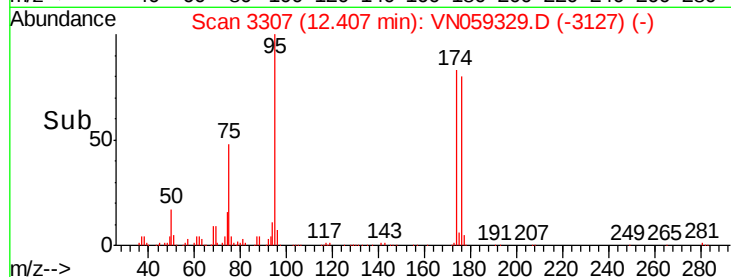
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

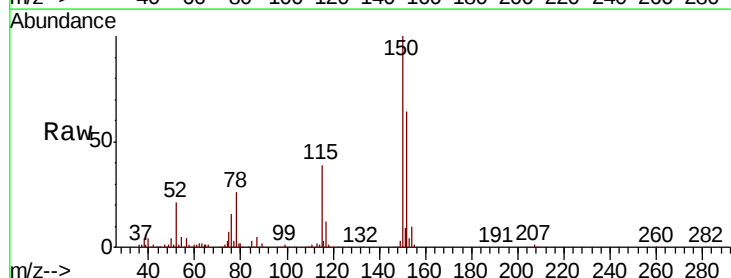
Tgt Ion:152 Resp: 184288

Ion Ratio Lower Upper

152 100

115 60.6 29.3 88.0

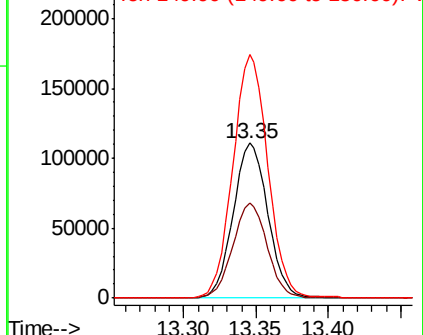
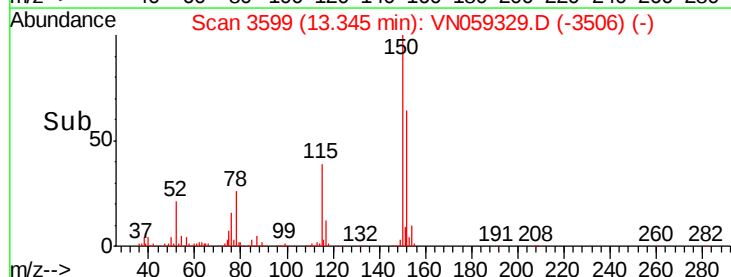
150 158.7 0.0 346.0

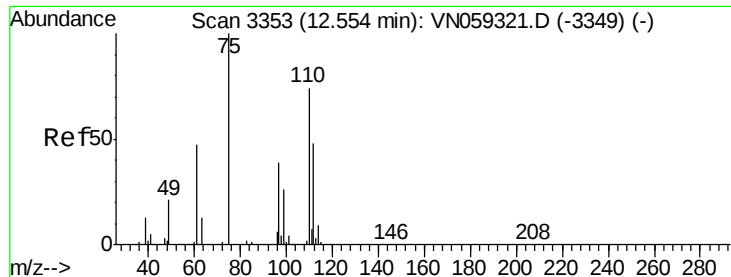


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.257 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :

MSVOA_N

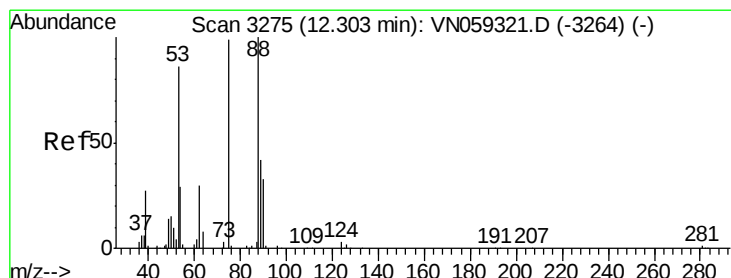
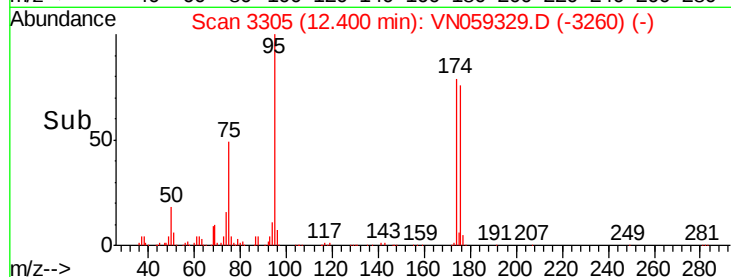
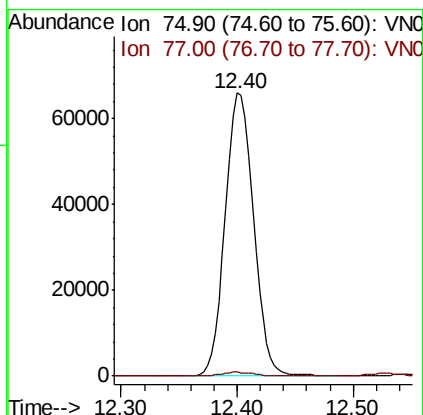
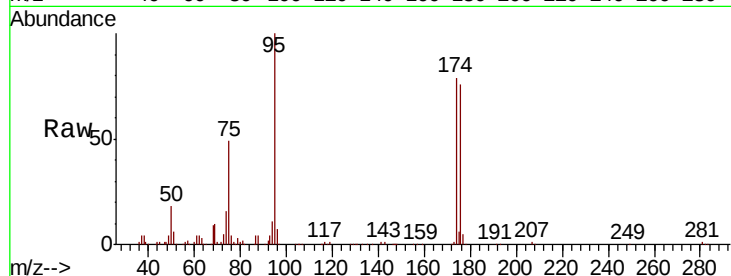
ClientSampleId :

Tot Ion: 75 Resp: 111788

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.672 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

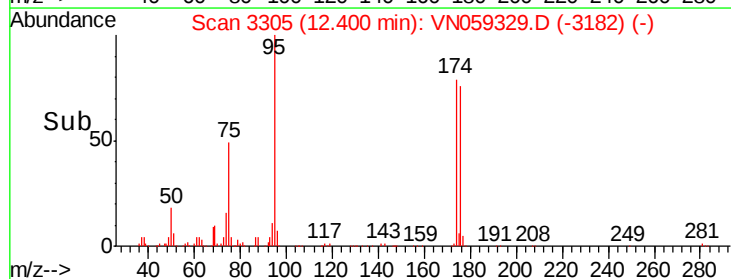
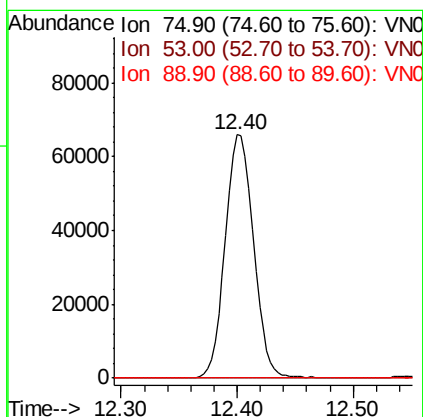
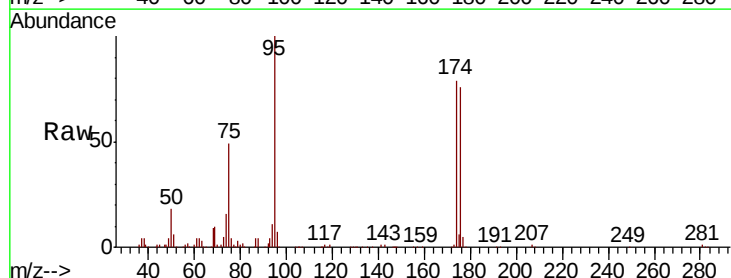
Tgt Ion: 75 Resp: 111788

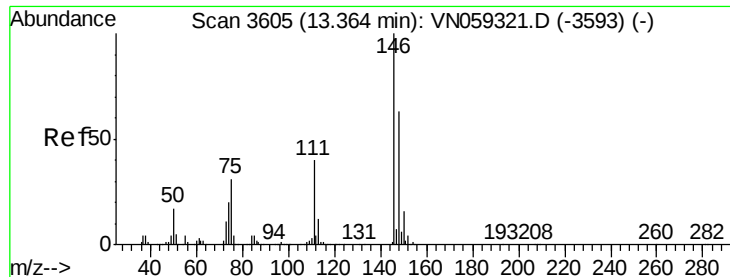
Ion Ratio Lower Upper

75 100

53 0.0 70.7 106.1#

89 0.0 35.4 53.0#





#88

1,4-Dichlorobenzene

Concen: 0.283 ug/l

RT: 13.37 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :

MSVOA_N

ClientSampled :

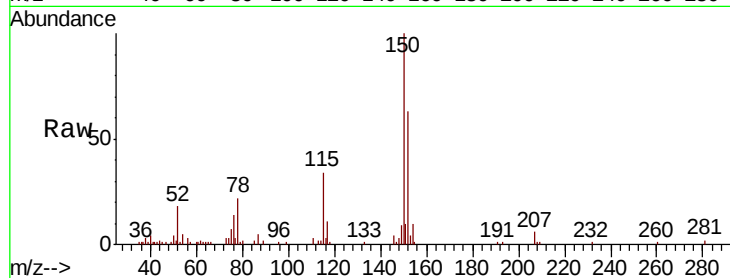
Tot Ion:146 Resp: 1824

Ion Ratio Lower Upper

146 100

111 174.1 20.1 60.3#

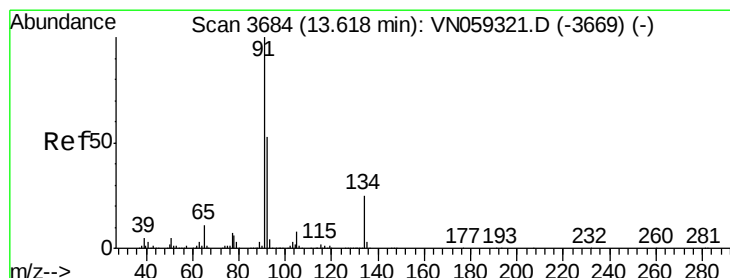
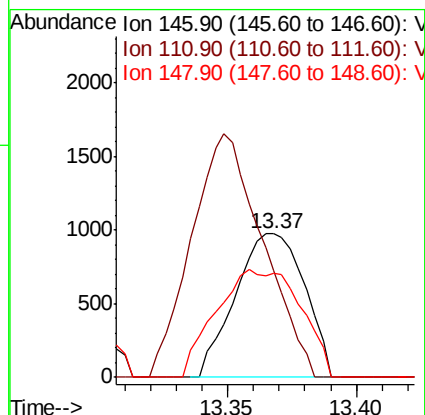
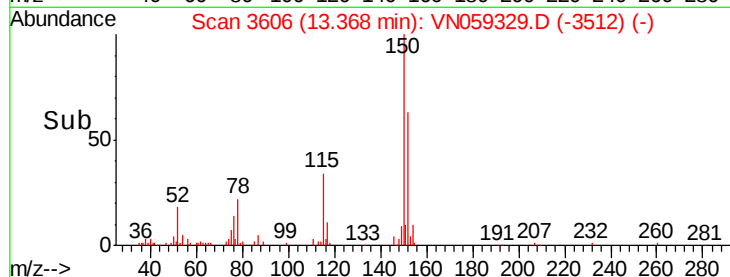
148 91.3 31.7 95.1



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



#89

n-Butylbenzene

Concen: 0.215 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

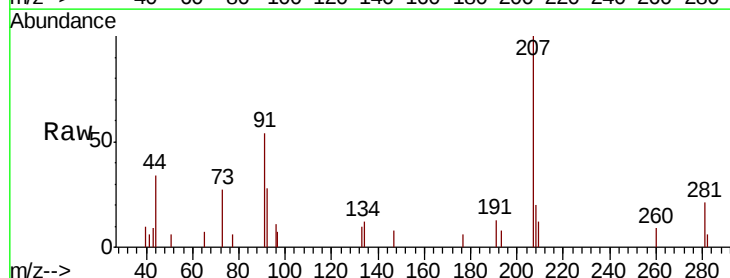
Tgt Ion: 91 Resp: 2415

Ion Ratio Lower Upper

91 100

92 50.4 26.0 78.0

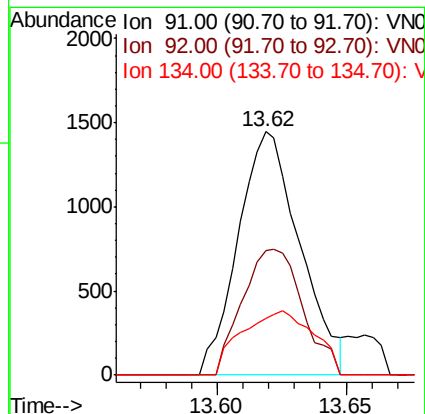
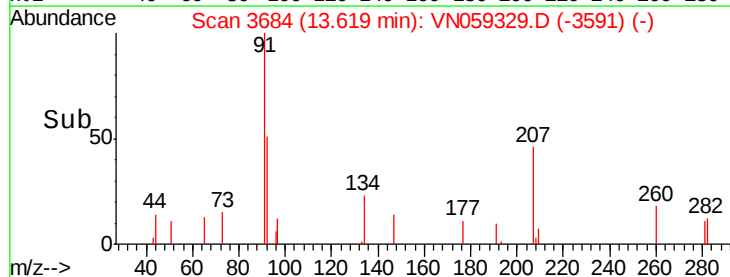
134 30.8 12.7 38.1

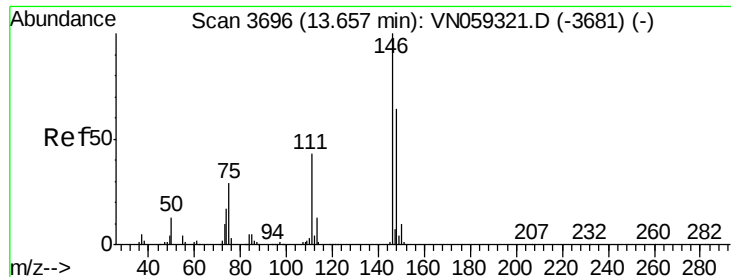


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

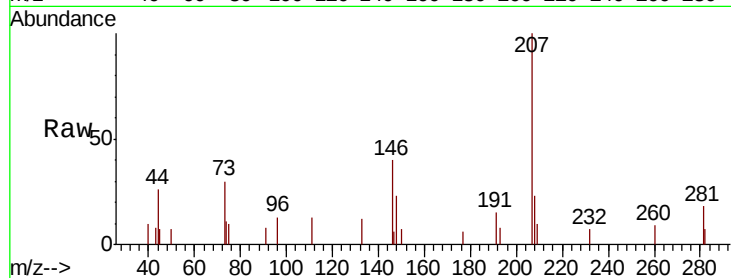




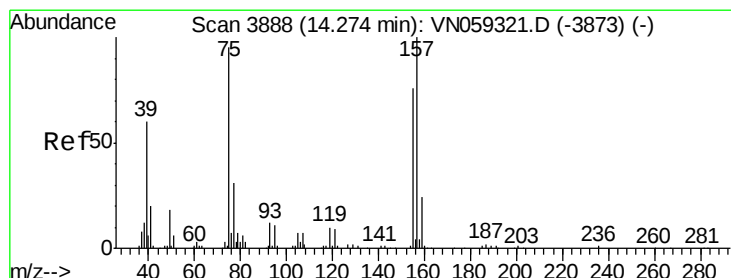
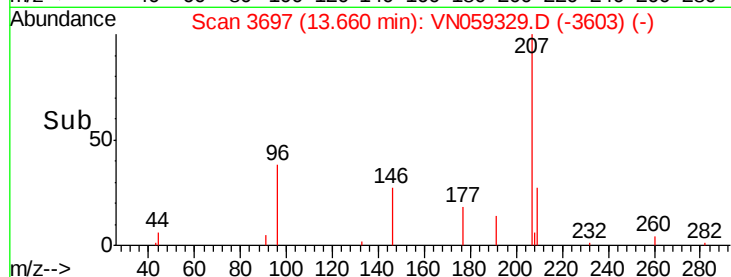
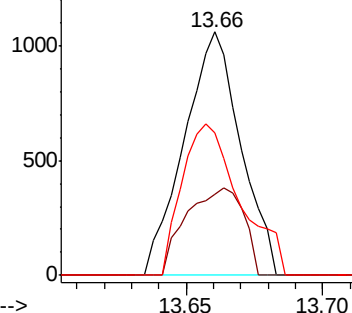
#91
 1,2-Dichlorobenzene
 Concen: 0.241 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN059329.D
 Acq: 21 Nov 2019 12:44

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.6	21.3	64.0
148	64.1	31.9	95.5

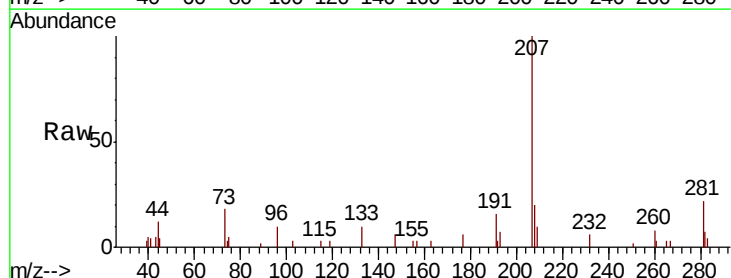


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

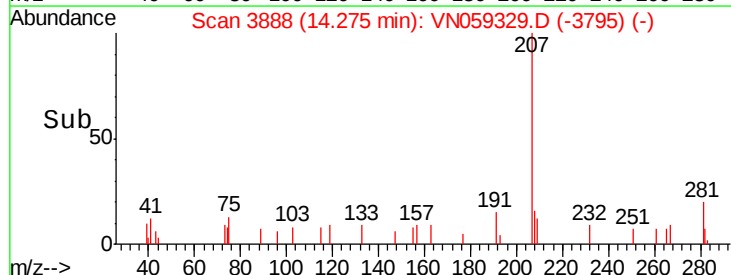
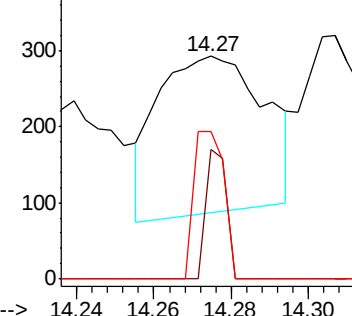


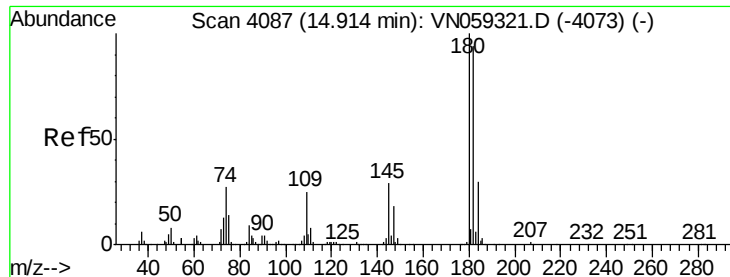
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.372 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059329.D
 Acq: 21 Nov 2019 12:44

Tgt Ion	Ratio	Lower	Upper
75	100		
155	15.9	40.5	121.5#
157	26.6	52.7	158.1#



Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

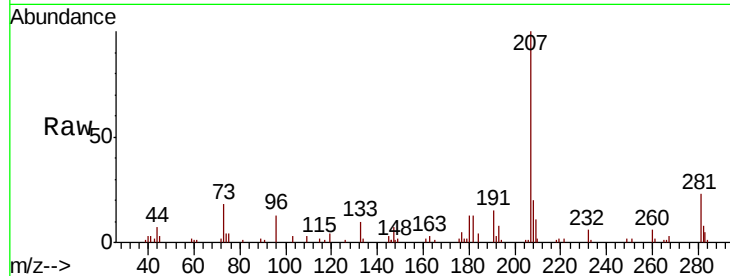




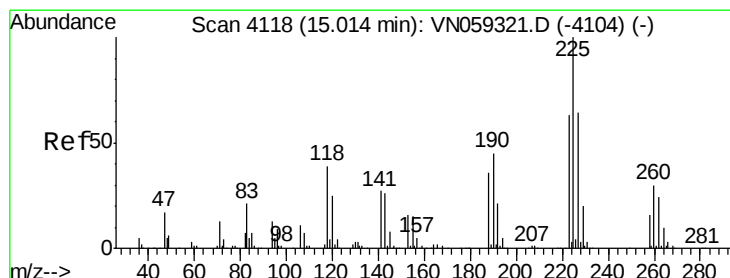
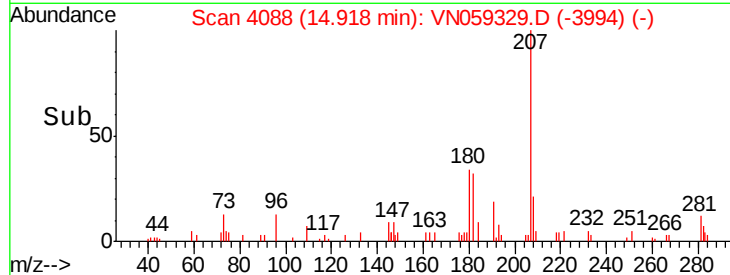
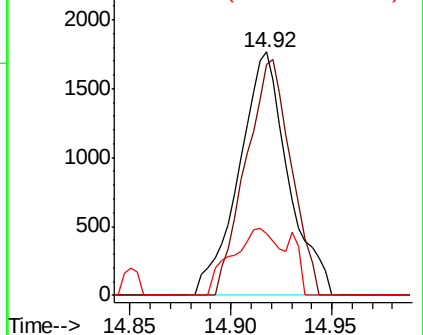
#93
 1,2,4-Trichlorobenzene
 Concen: 3.659 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN059329.D
 Acq: 21 Nov 2019 12:44

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 3004
 Ion Ratio Lower Upper
 180 100
 182 88.8 47.2 141.6
 145 27.0 14.9 44.5

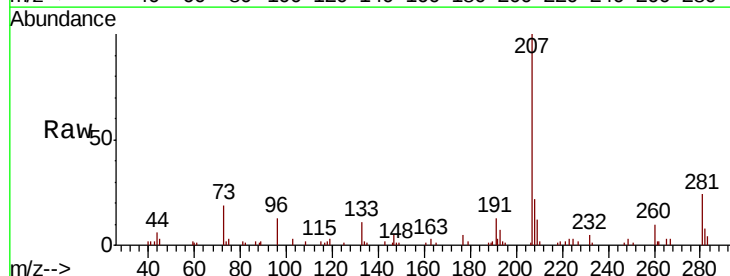


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

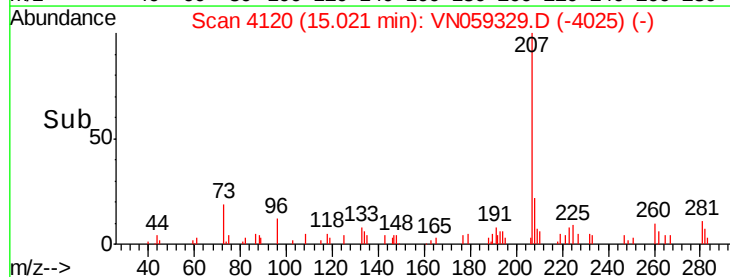
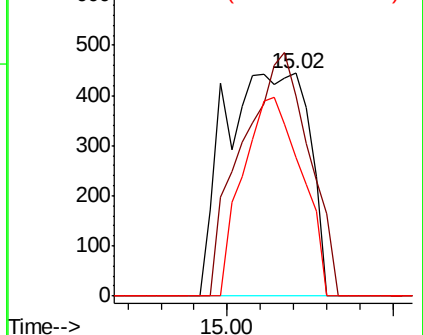


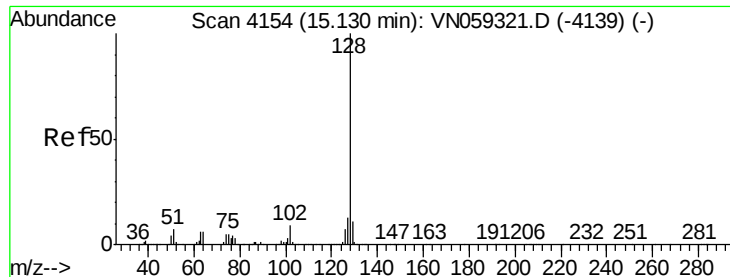
#94
 Hexachlorobutadiene
 Concen: 0.345 ug/l
 RT: 15.02 min Scan# 4120
 Delta R.T. 0.01 min
 Lab File: VN059329.D
 Acq: 21 Nov 2019 12:44

Tgt Ion:225 Resp: 784
 Ion Ratio Lower Upper
 225 100
 223 86.7 31.6 94.8
 227 62.5 32.6 97.7



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: 4.396 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

Instrument :

MSVOA_N

ClientSampled :

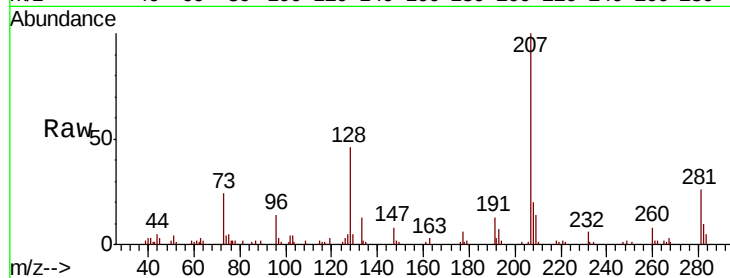
Tot Ion:128 Resp: 14246

Ion Ratio Lower Upper

128 100

127 11.4 10.2 15.2

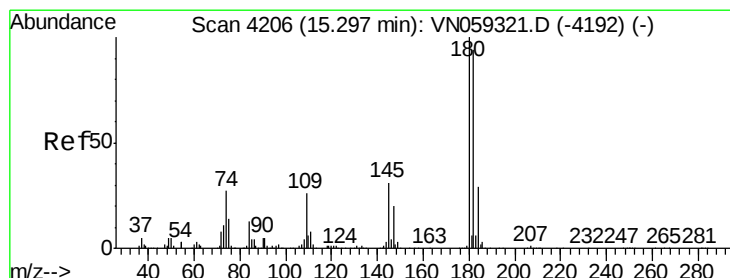
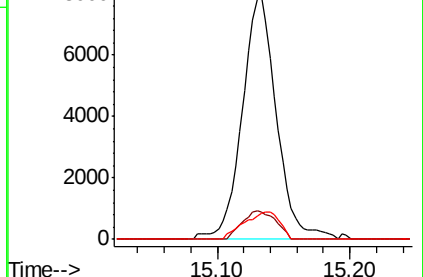
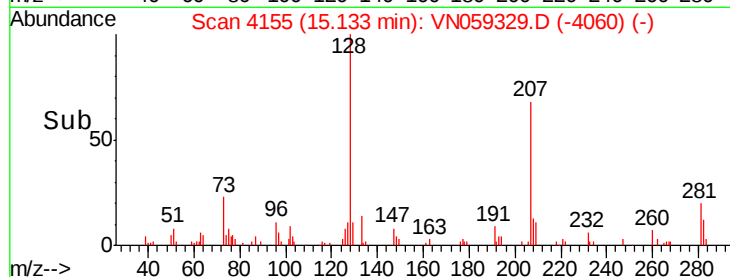
129 11.5 8.6 13.0



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: 3.077 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN059329.D

Acq: 21 Nov 2019 12:44

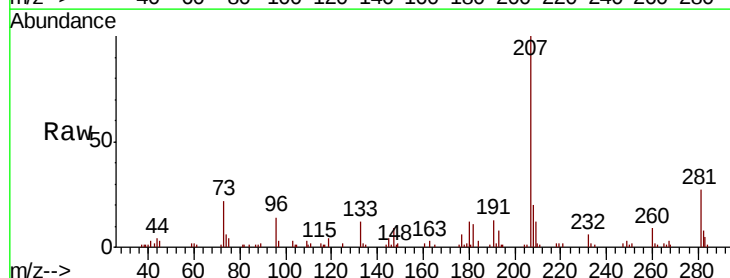
Tgt Ion:180 Resp: 4708

Ion Ratio Lower Upper

180 100

182 83.7 47.1 141.4

145 30.2 15.6 46.8



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

