

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091019\
 Data File : VN057825.D
 Acq On : 10 Sep 2019 00:38
 Operator : JC/SP
 Sample : K4603-33
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 10 07:13:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	289396	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	494724	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457150	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	227785	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	333968	56.98	ug/l	0.00
Spiked Amount			Recovery	=	113.96%	
35) Dibromofluoromethane	7.58	113	223140	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	10.08	98	898142	50.66	ug/l	0.00
Spiked Amount			Recovery	=	101.32%	
62) 4-Bromofluorobenzene	12.40	95	295528	43.74	ug/l	0.00
Spiked Amount			Recovery	=	87.48%	

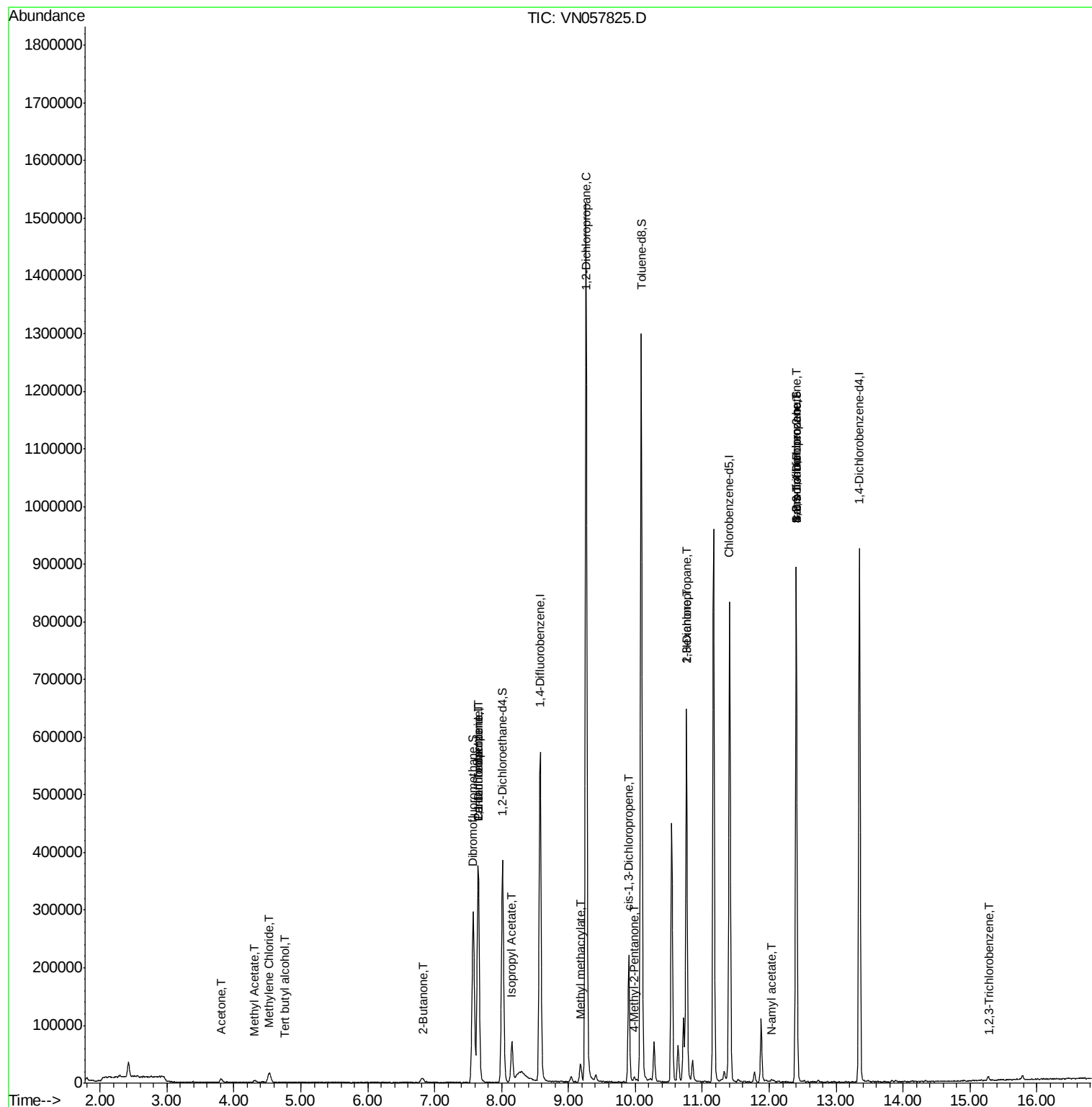
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	279	Below Cal	#	23
11) Tert butyl alcohol	4.76	59	145	0.204	ug/l #	72
16) Acetone	3.81	43	10440	5.433	ug/l	90
18) Methyl Acetate	4.32	43	5717	1.116	ug/l #	68
20) Methylene Chloride	4.53	84	12244	2.170	ug/l	96
25) 2-Butanone	6.82	43	779	0.280	ug/l #	49
31) Cyclohexane	7.65	56	7548	Below Cal	#	23
36) 1,1-Dichloropropene	7.65	75	25313	4.412	ug/l #	50
38) Carbon Tetrachloride	7.65	117	30054	5.737	ug/l #	16
43) Isopropyl Acetate	8.15	43	83422	8.368	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1597	0.318	ug/l #	44
48) Methyl methacrylate	9.17	41	4539	0.898	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	4882	0.828	ug/l	91
54) cis-1,3-Dichloropropene	9.90	75	36918	5.235	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	6614	0.833	ug/l #	43
59) 2-Hexanone	10.76	43	99134	22.420	ug/l #	54
71) Bromoform	12.40	173	2275	0.879	ug/l #	1
74) N-amyl acetate	12.04	43	3785	0.492	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	161231	31.289	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	161231	110.108	ug/l #	6
95) Naphthalene	15.13	128	1261	Below Cal	#	79
96) 1,2,3-Trichlorobenzene	15.30	180	136	1.027	ug/l #	57

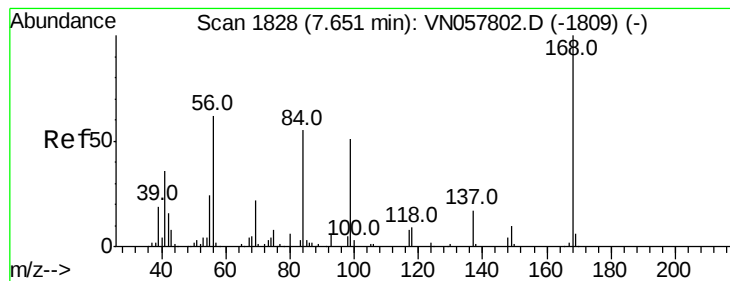
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

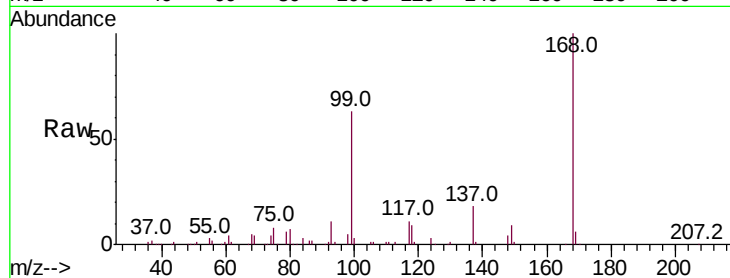
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 289396

Ion Ratio Lower Upper

168 100

99 63.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

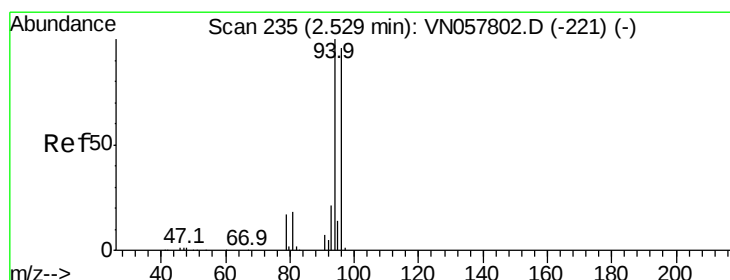
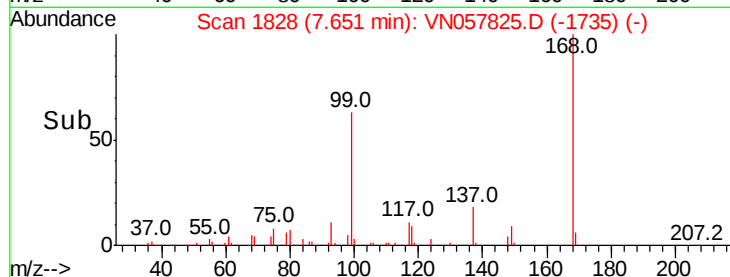
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057825.D

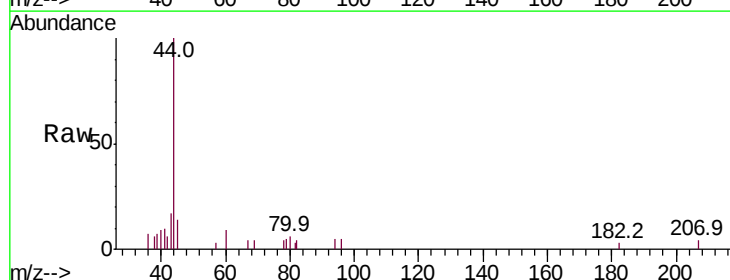
Acq: 10 Sep 2019 00:38

Tgt Ion: 94 Resp: 279

Ion Ratio Lower Upper

94 100

96 21.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

300

250

200

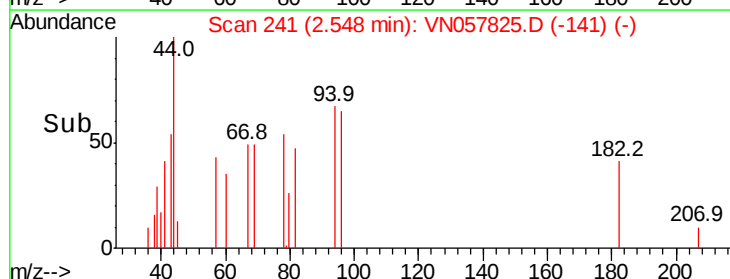
150

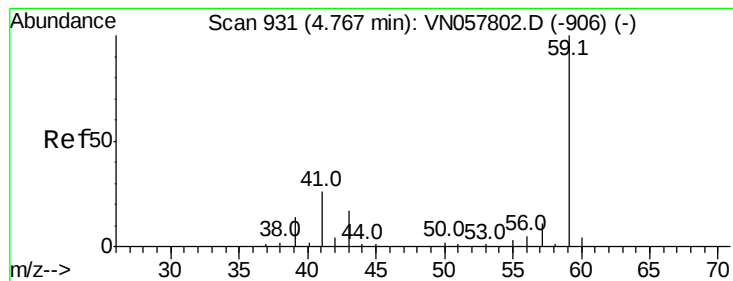
100

50

0

Time-->



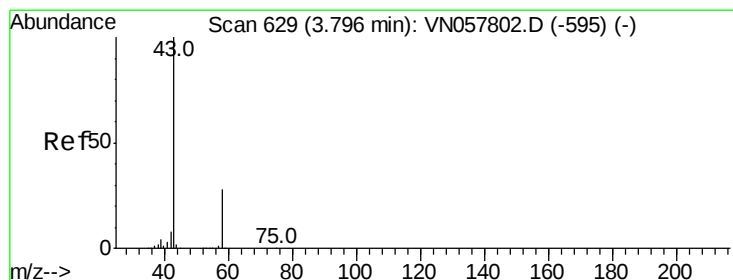
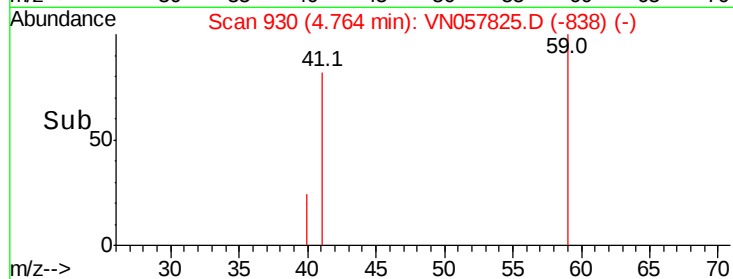
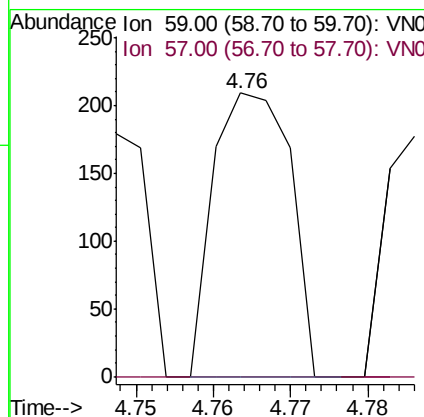
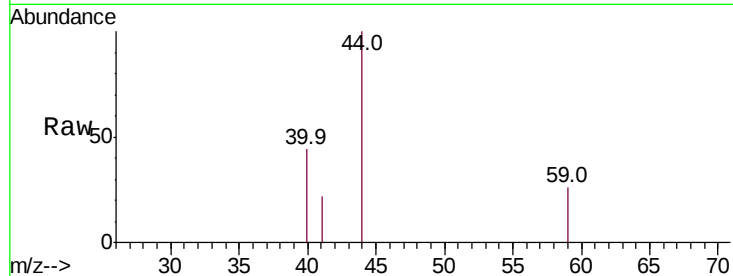


#11

Tert butyl alcohol
 Concen: 0.204 ug/l
 RT: 4.76 min Scan# 930
 Delta R.T. -0.00 min
 Lab File: VN057825.D
 Acq: 10 Sep 2019 00:38

Instrument :
 MSVOA_N
 ClientSampled :

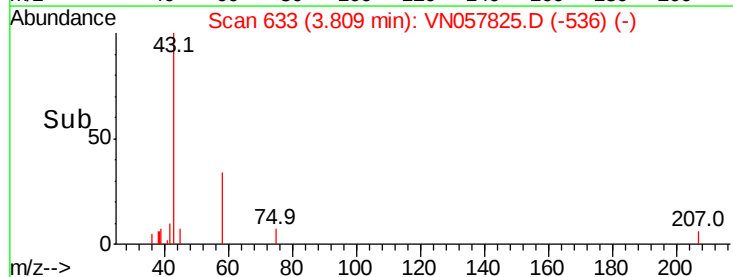
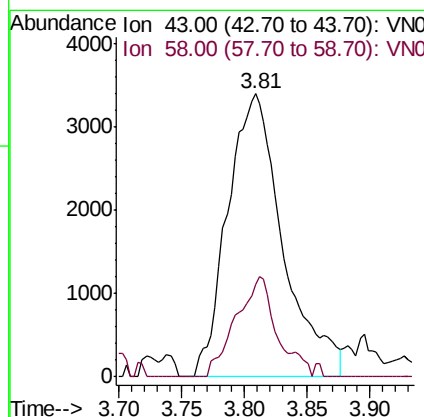
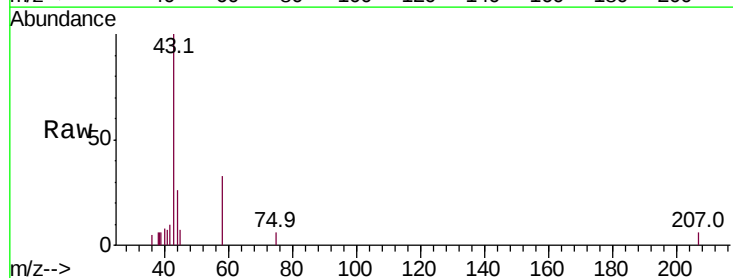
Tot Ion: 59 Resp: 145
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

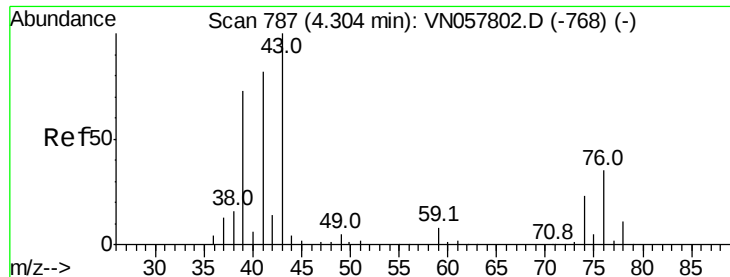


#16

Acetone
 Concen: 5.433 ug/l
 RT: 3.81 min Scan# 633
 Delta R.T. 0.01 min
 Lab File: VN057825.D
 Acq: 10 Sep 2019 00:38

Tgt Ion: 43 Resp: 10440
 Ion Ratio Lower Upper
 43 100
 58 32.7 22.2 33.2

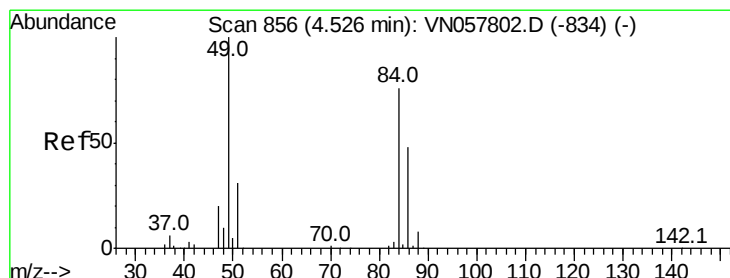
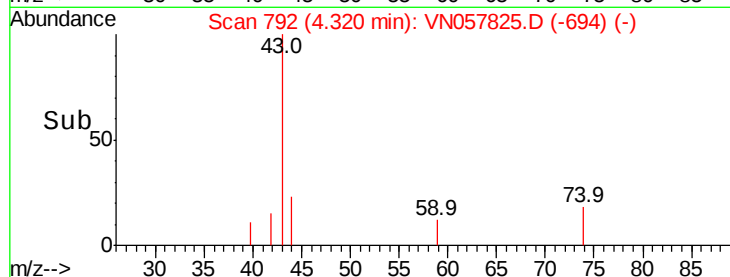
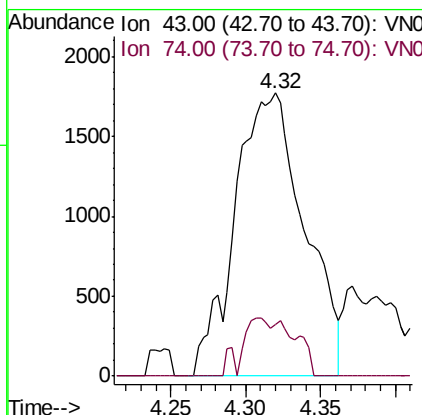
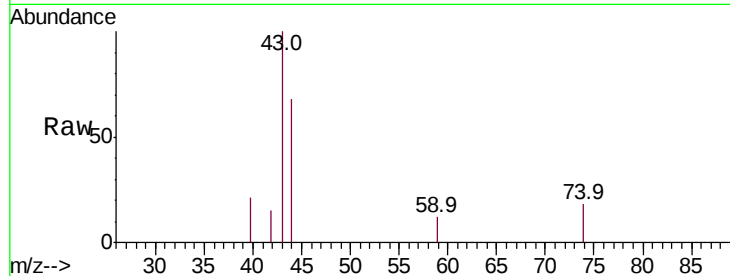




#18
Methyl Acetate
Concen: 1.116 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057825.D
Acq: 10 Sep 2019 00:38

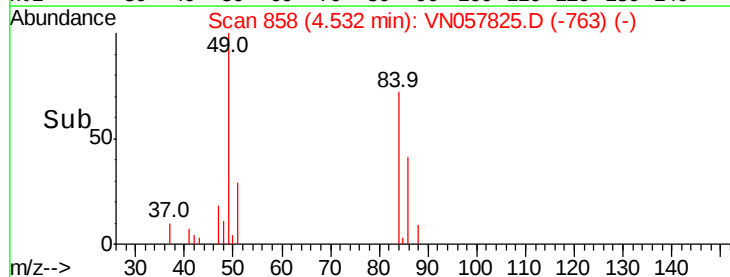
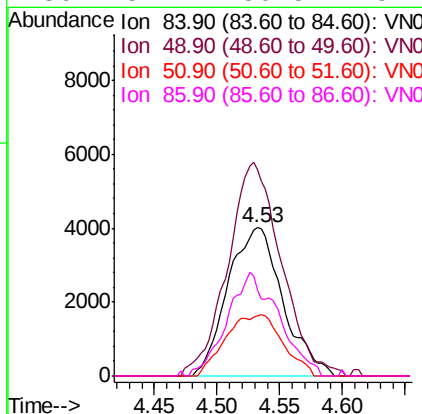
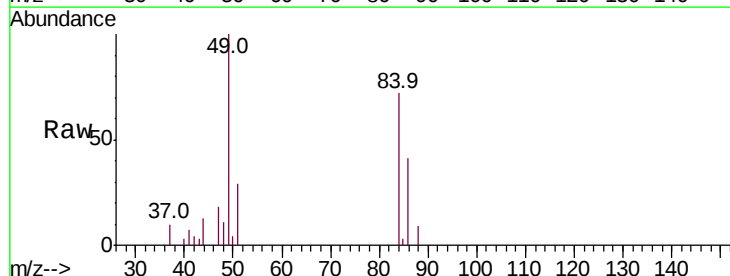
Instrument :
MSVOA_N
ClientSampled :

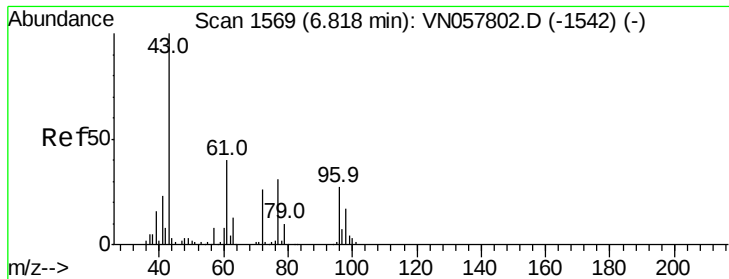
Tot Ion: 43 Resp: 5717
Ion Ratio Lower Upper
43 100
74 7.3 17.9 26.9#



#20
Methylene Chloride
Concen: 2.170 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057825.D
Acq: 10 Sep 2019 00:38

Tgt Ion: 84 Resp: 12244
Ion Ratio Lower Upper
84 100
49 134.3 104.8 157.2
51 40.7 33.0 49.4
86 57.7 50.5 75.7

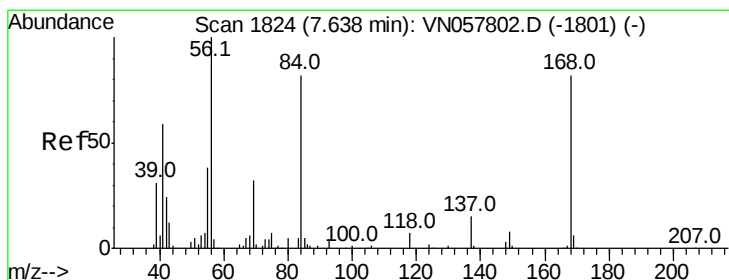
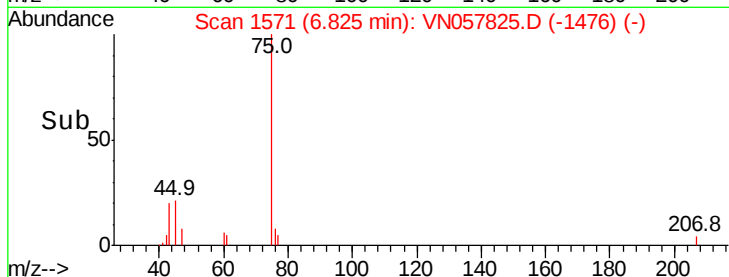
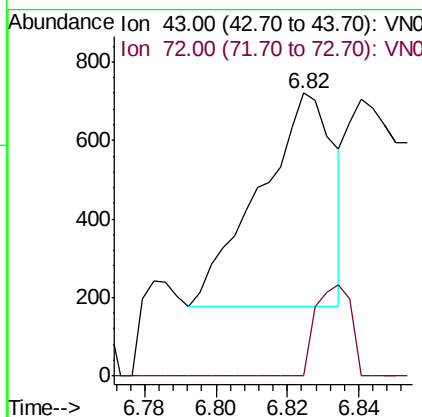
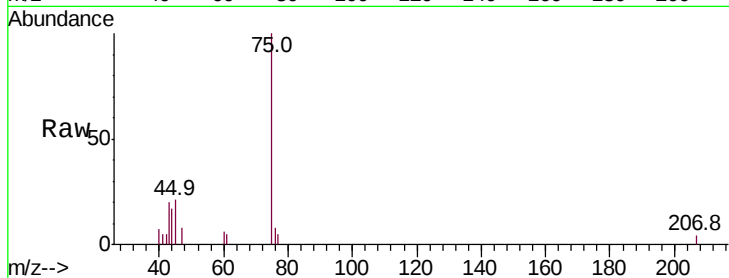




#25
2-Butanone
Concen: 0.280 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN057825.D
Acq: 10 Sep 2019 00:38

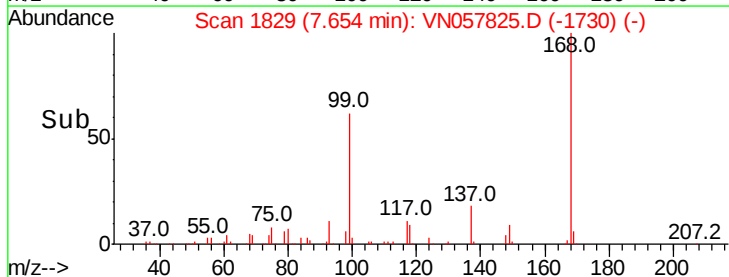
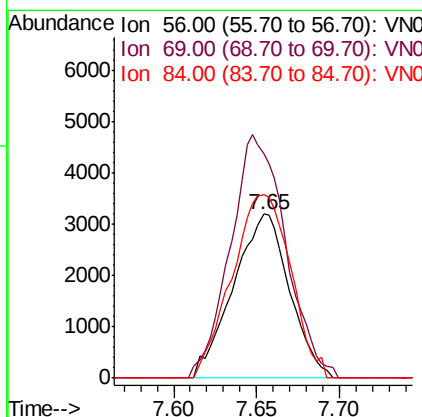
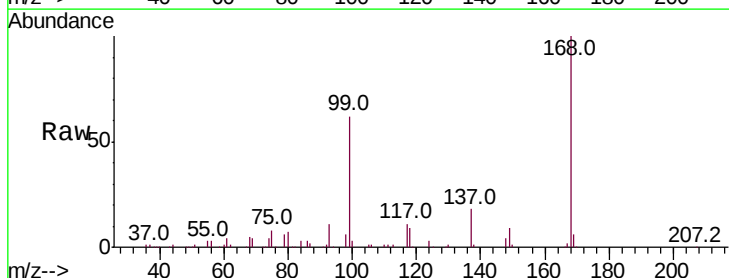
Instrument :
MSVOA_N
ClientSampled :

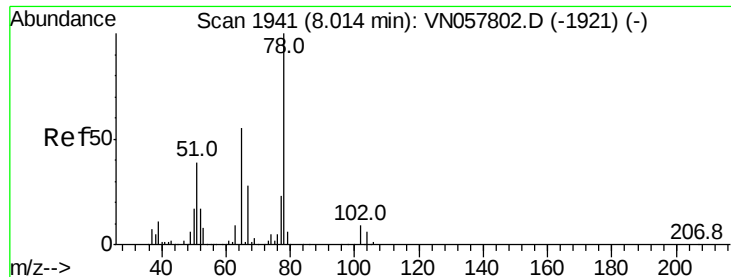
Tot Ion: 43 Resp: 779
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057825.D
Acq: 10 Sep 2019 00:38

Tgt Ion: 56 Resp: 7548
Ion Ratio Lower Upper
56 100
69 137.0 25.9 38.9#
84 112.4 65.6 98.4#





#33

1,2-Dichloroethane-d4

Concen: 56.977 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :

MSVOA_N

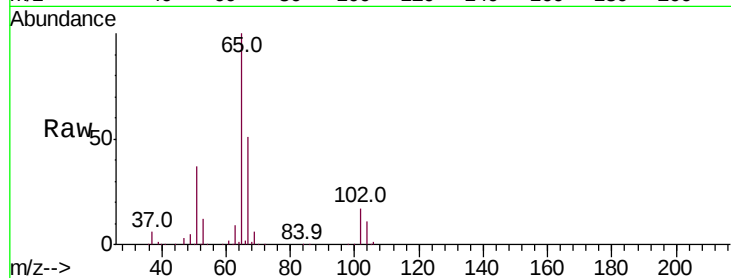
ClientSampleId :

Tot Ion: 65 Resp: 333968

Ion Ratio Lower Upper

65 100

67 50.7 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN057802.D (-1921) (-)

Ion 66.90 (66.60 to 67.60): VN057802.D (-1921) (-)

8.01

150000

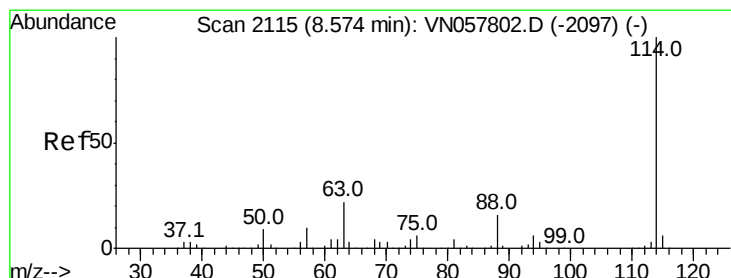
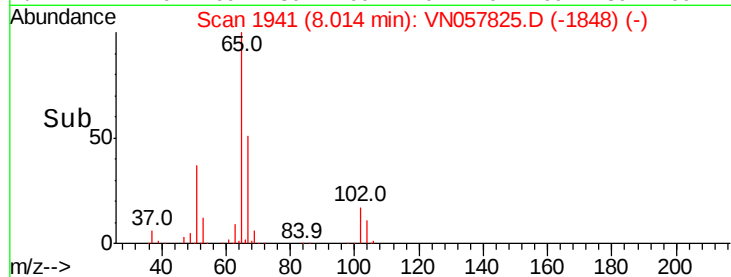
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

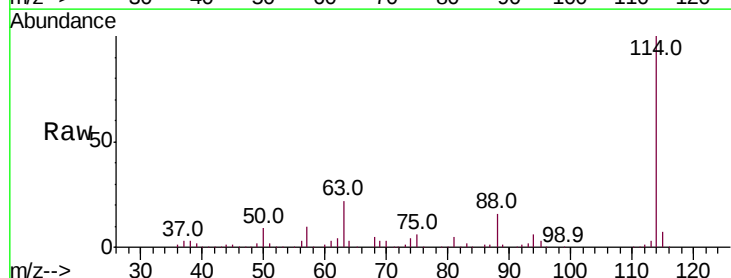
Tgt Ion: 114 Resp: 494724

Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.0

88 16.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN057802.D (-2097) (-)

Ion 63.00 (62.70 to 63.70): VN057802.D (-2097) (-)

Ion 87.90 (87.60 to 88.60): VN057802.D (-2097) (-)

8.58

300000

250000

200000

150000

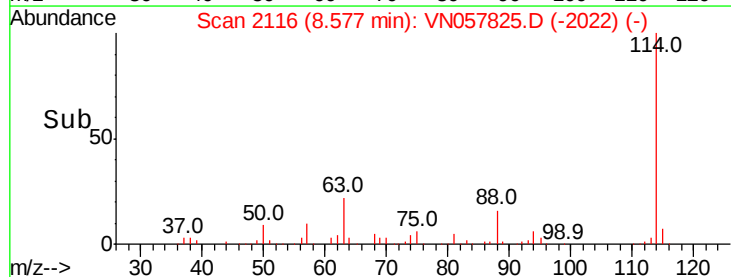
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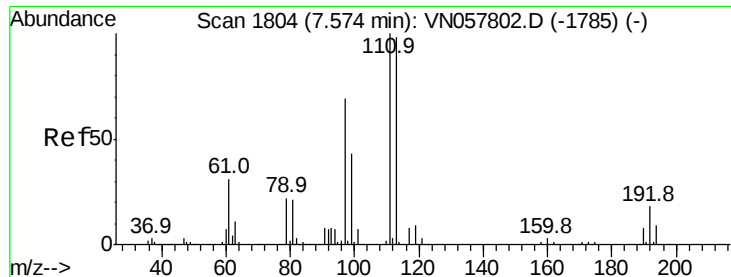
50000

0

8.50 8.60 8.70

Time-->

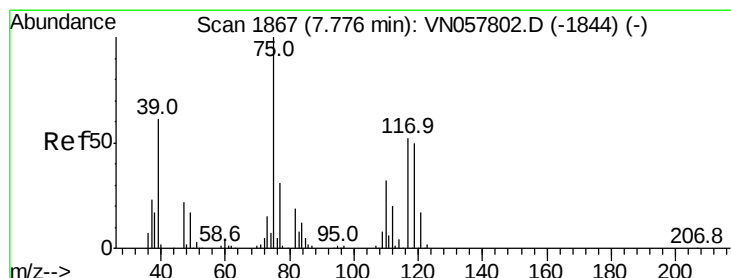
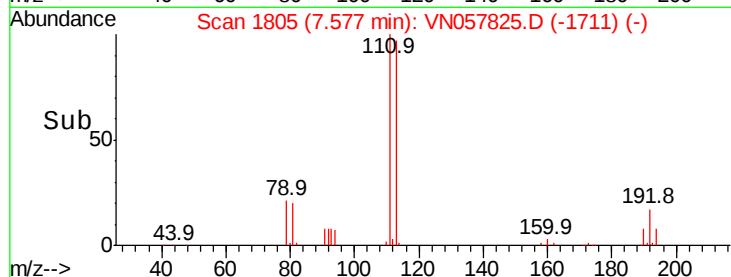
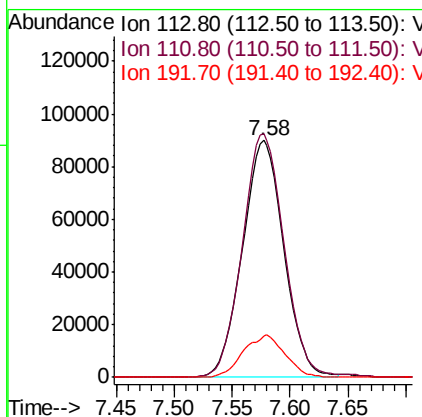
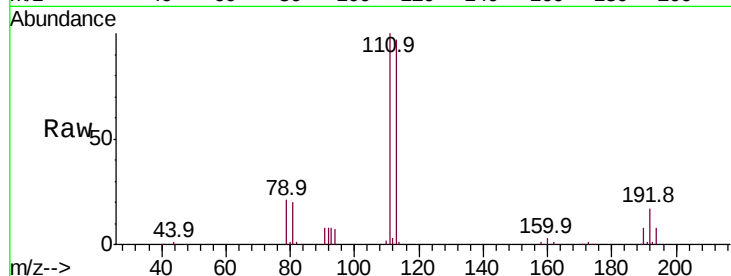




#35
 Dibromofluoromethane
 Concen: 48.869 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057825.D
 Acq: 10 Sep 2019 00:38

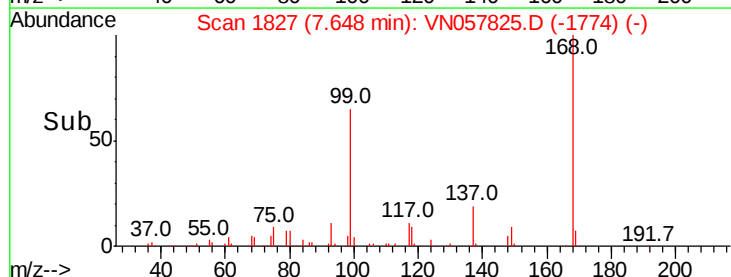
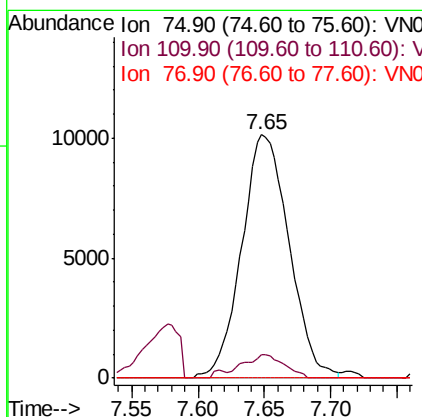
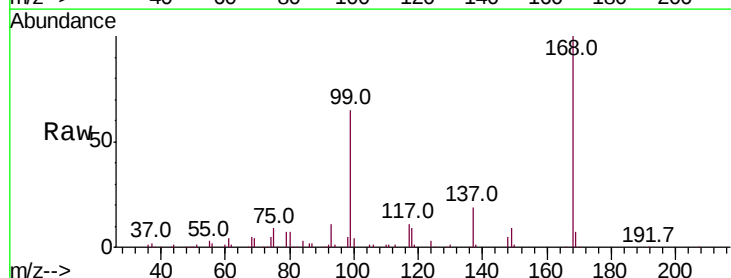
Instrument :
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 ClientSampleId :

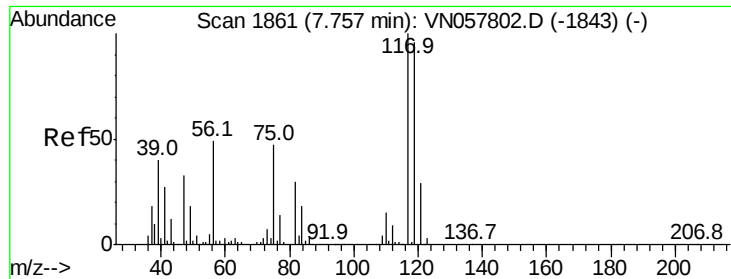
Tot Ion:113 Resp: 223140
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.3 121.9
 192 18.1 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.412 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057825.D
 Acq: 10 Sep 2019 00:38

Tgt Ion: 75 Resp: 25313
 Ion Ratio Lower Upper
 75 100
 110 8.1 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.737 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :

MSVOA_N

ClientSampleId :

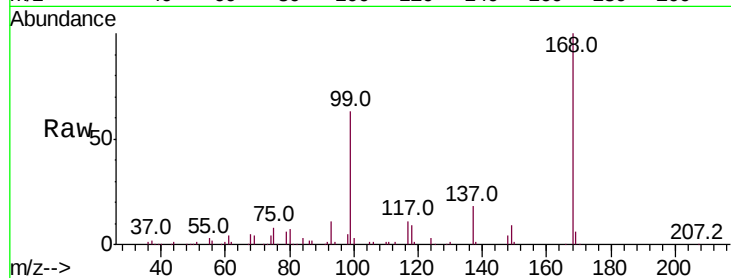
Tot Ion:117 Resp: 30054

Ion Ratio Lower Upper

117 100

119 4.9 76.9 115.3#

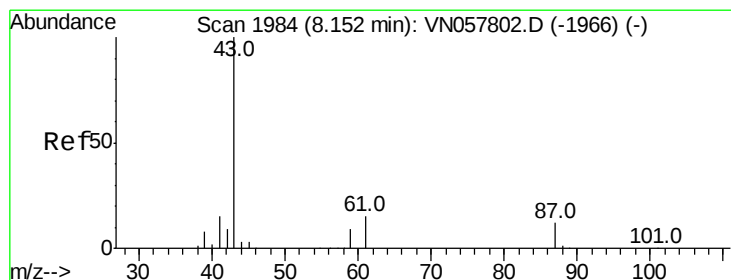
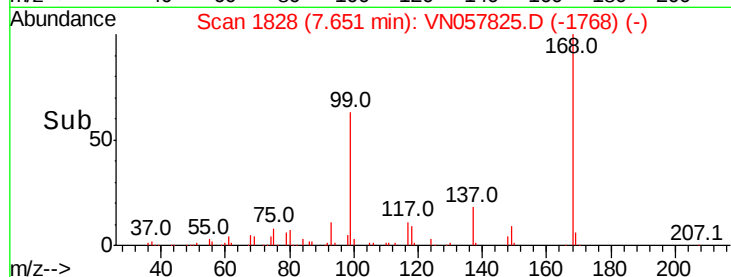
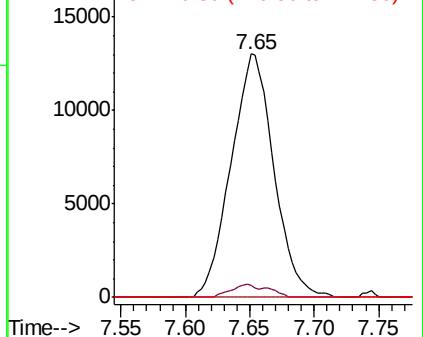
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 8.368 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

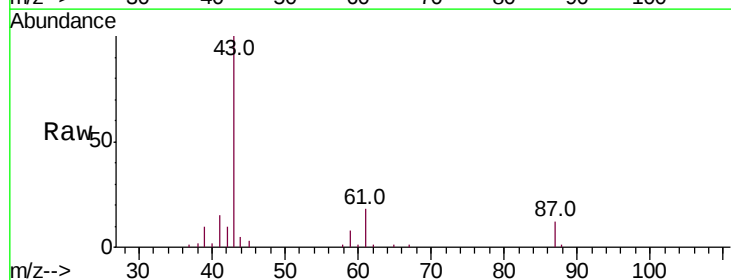
Tgt Ion: 43 Resp: 83422

Ion Ratio Lower Upper

43 100

61 18.3 20.1 30.1#

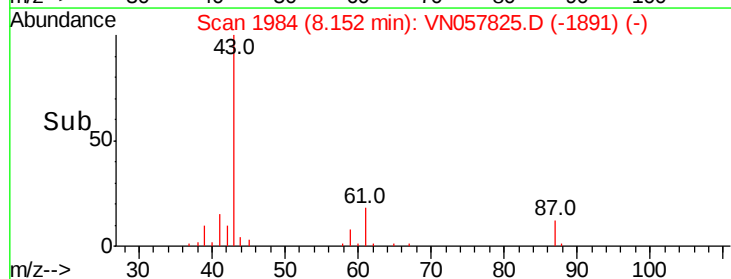
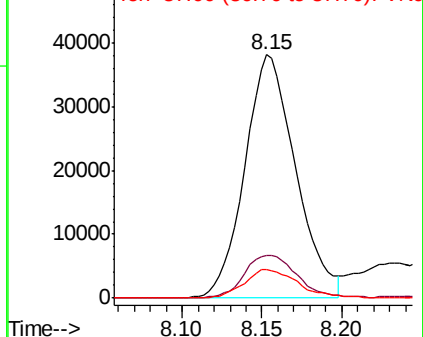
87 12.4 9.5 14.3

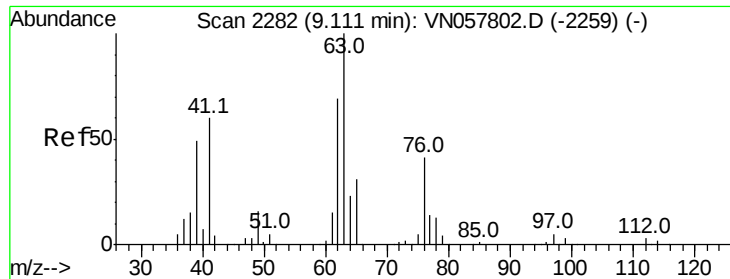


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.318 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :

MSVOA_N

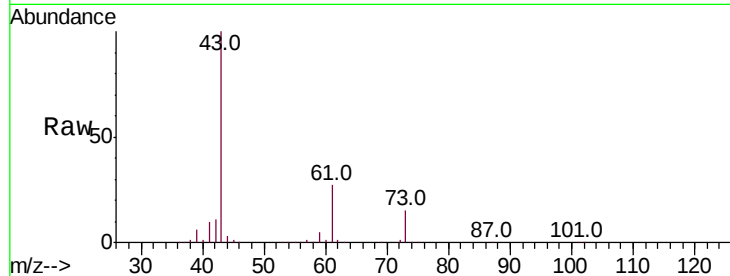
ClientSampled :

Tot Ion: 63 Resp: 1597

Ion Ratio Lower Upper

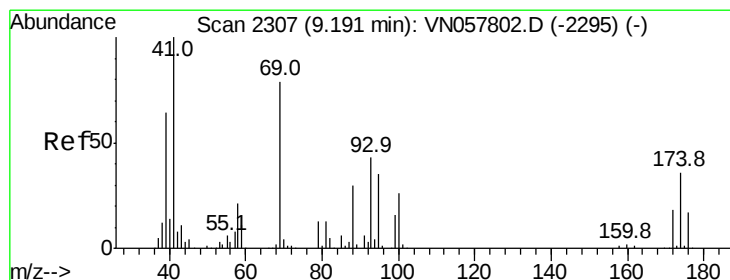
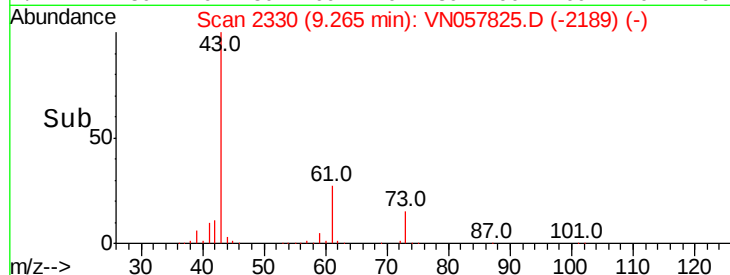
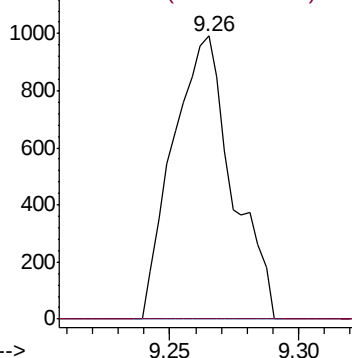
63 100

65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 0.898 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

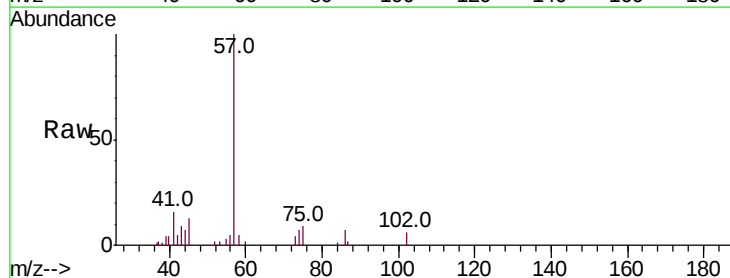
Tgt Ion: 41 Resp: 4539

Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

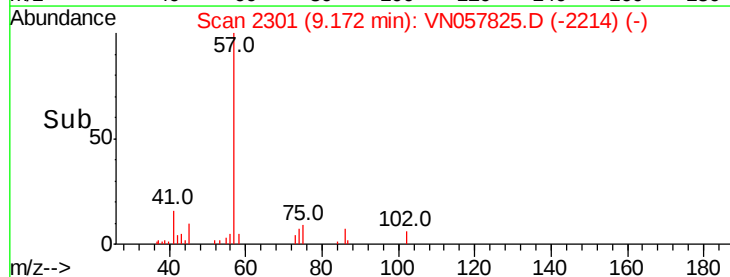
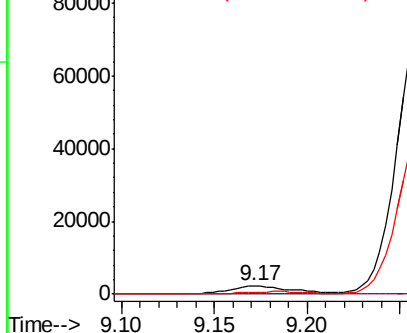
39 0.0 52.7 79.1#

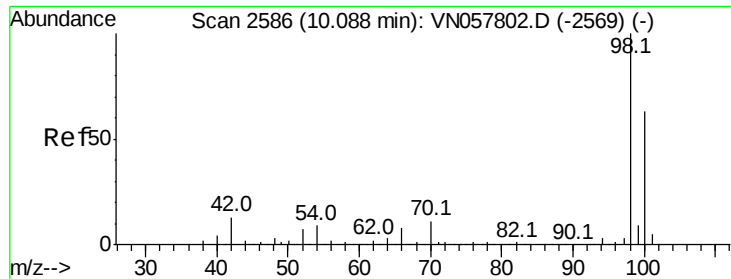


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#50

Toluene-d8

Concen: 50.662 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :

MSVOA_N

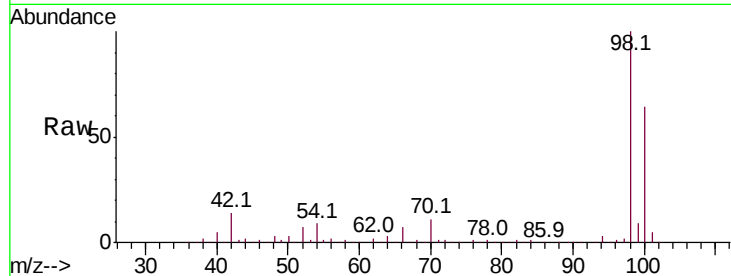
ClientSampled :

Tot Ion: 98 Resp: 898142

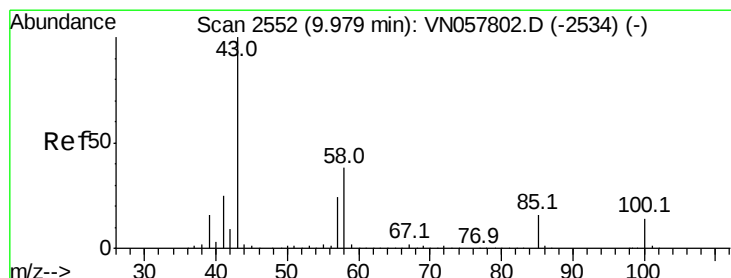
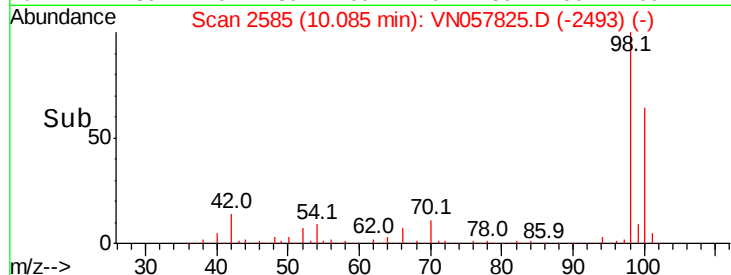
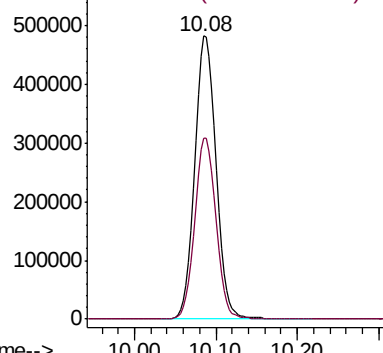
Ion Ratio Lower Upper

98 100

100 63.9 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.828 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057825.D

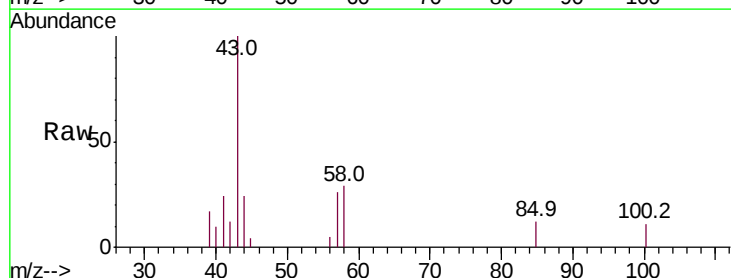
Acq: 10 Sep 2019 00:38

Tgt Ion: 43 Resp: 4882

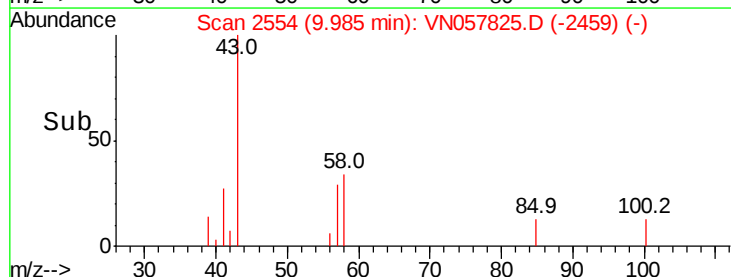
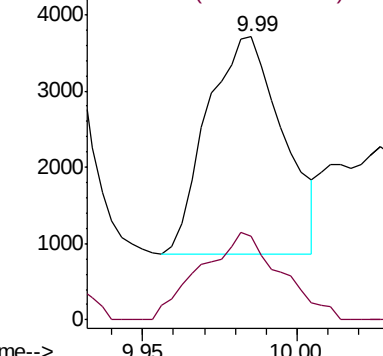
Ion Ratio Lower Upper

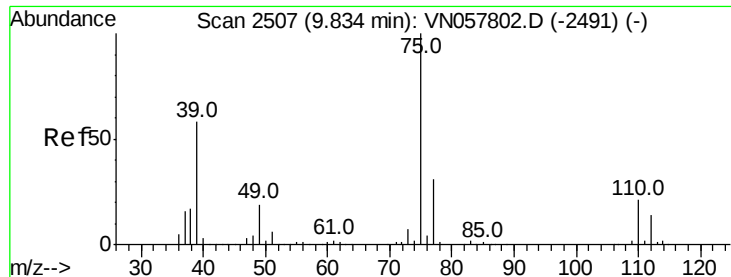
43 100

58 42.3 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.235 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :
MSVOA_N
ClientSampled :

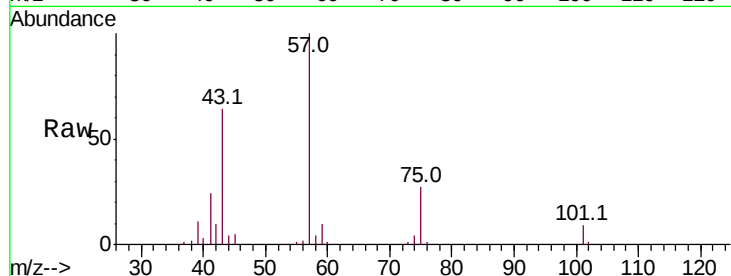
Tot Ion: 75 Resp: 36918

Ion Ratio Lower Upper

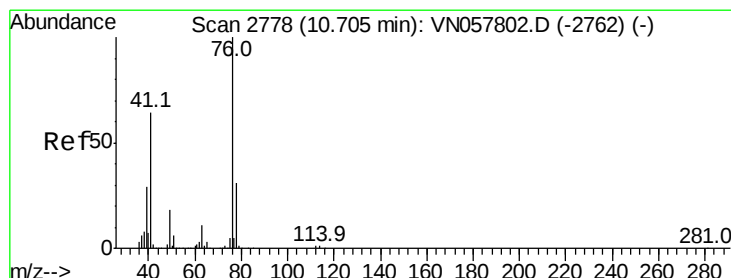
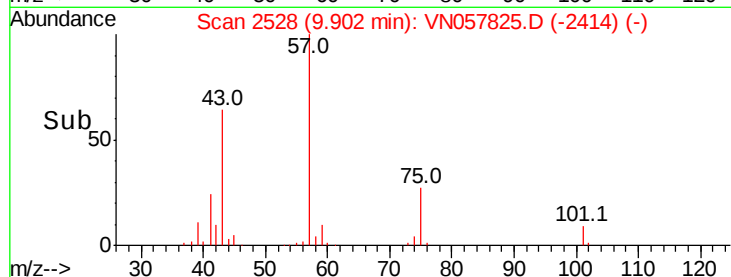
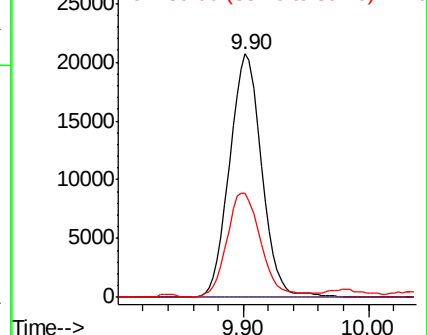
75 100

77 0.0 24.8 37.2#

39 42.7 46.2 69.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.833 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057825.D

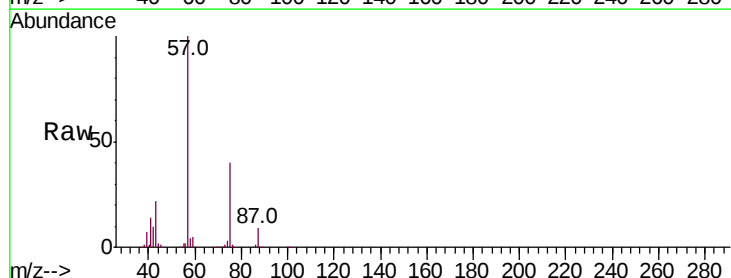
Acq: 10 Sep 2019 00:38

Tgt Ion: 76 Resp: 6614

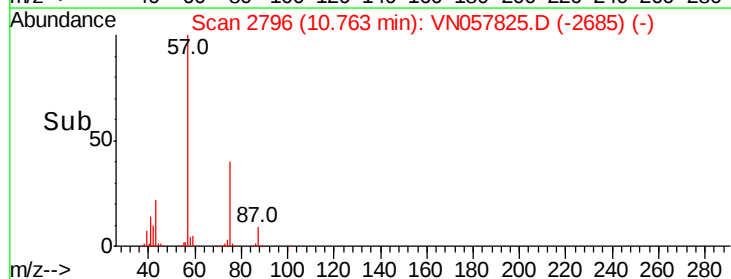
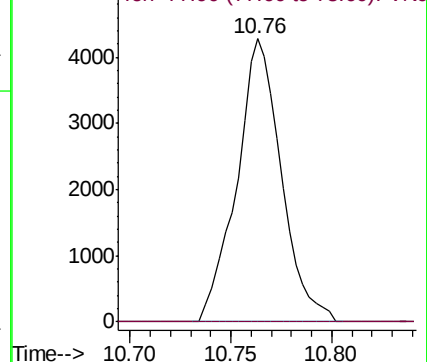
Ion Ratio Lower Upper

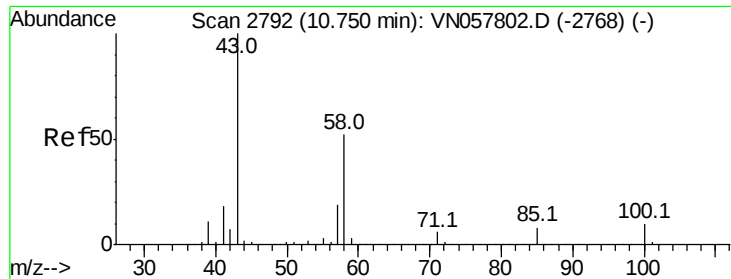
76 100

78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 22.420 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :

MSVOA_N

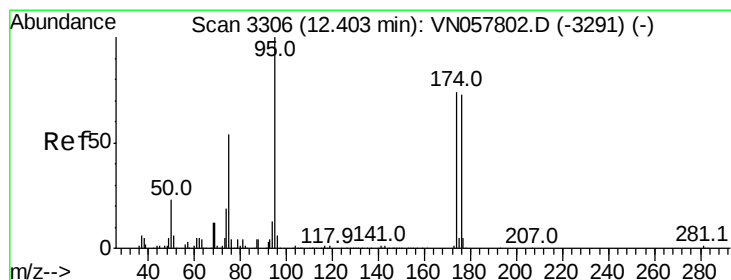
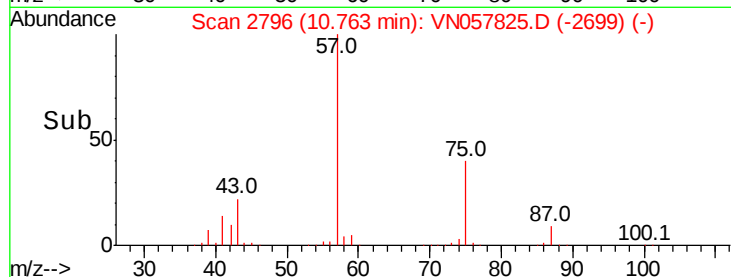
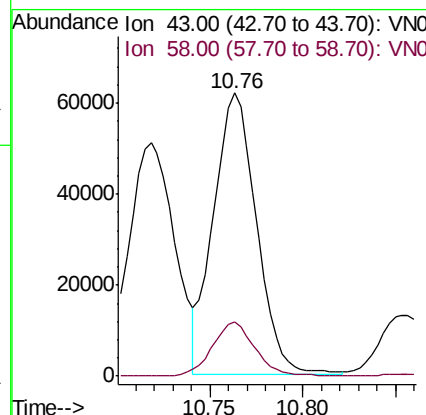
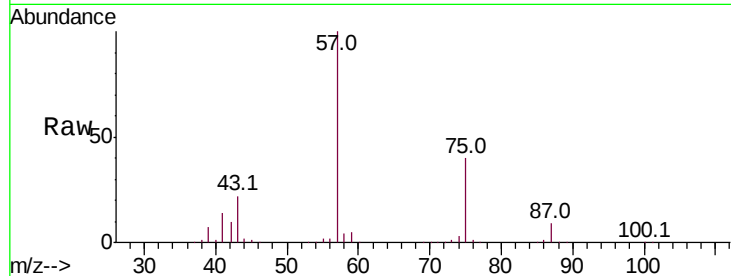
ClientSampled :

Tot Ion: 43 Resp: 99134

Ion Ratio Lower Upper

43 100

58 19.2 25.6 76.8#



#62

4-Bromofluorobenzene

Concen: 43.743 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

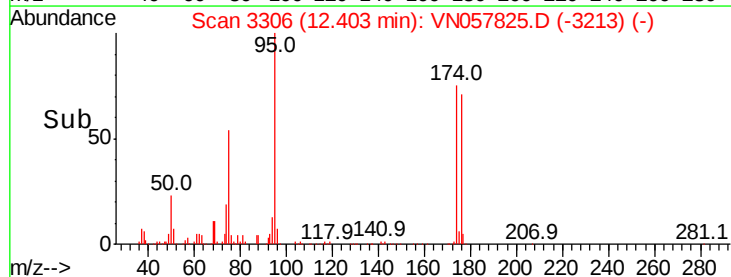
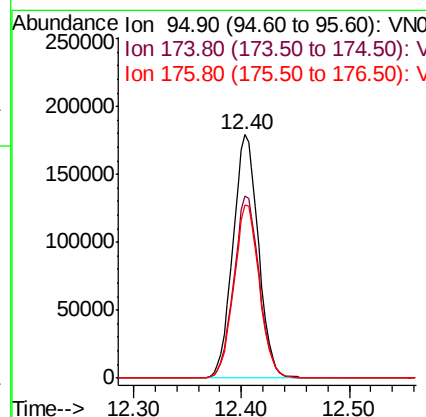
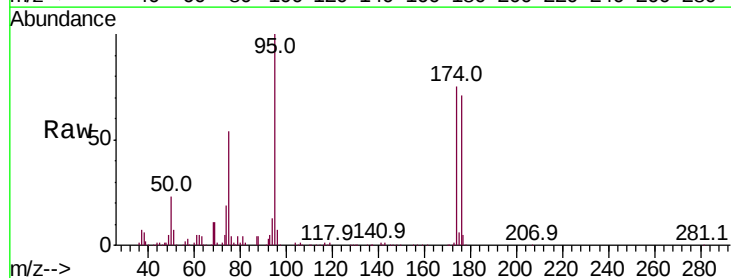
Tgt Ion: 95 Resp: 295528

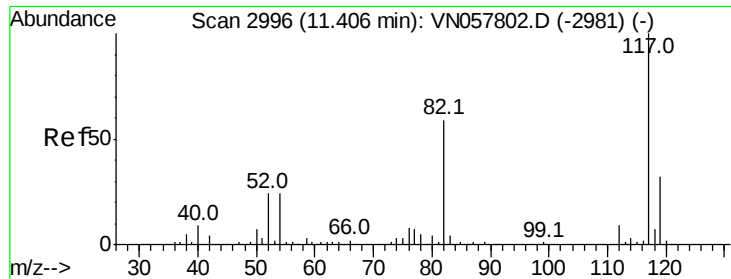
Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.2

176 71.2 0.0 146.0

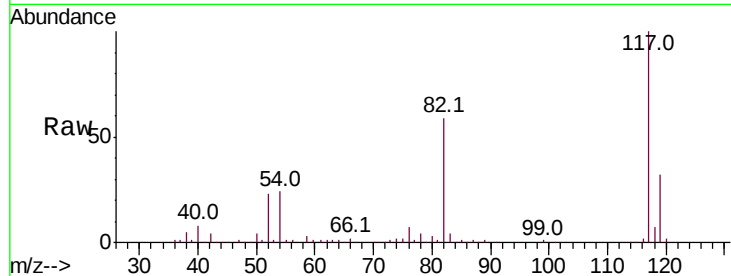




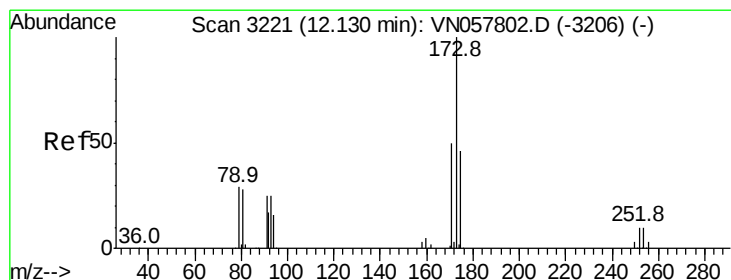
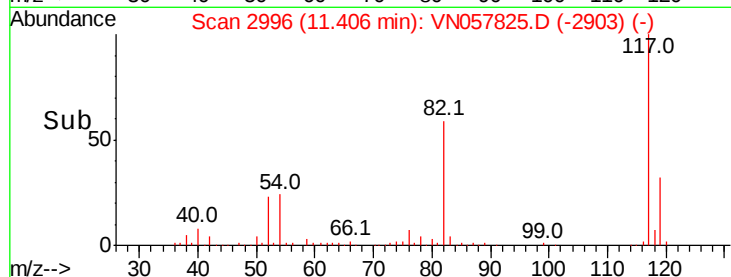
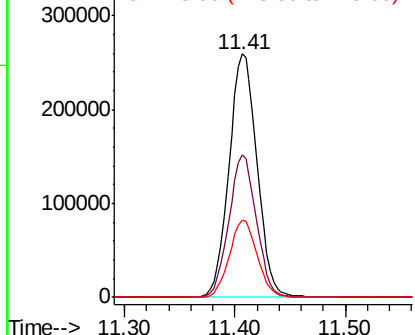
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057825.D
Acq: 10 Sep 2019 00:38

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 457150
Ion Ratio Lower Upper
117 100
82 58.7 47.2 70.8
119 31.6 25.3 37.9

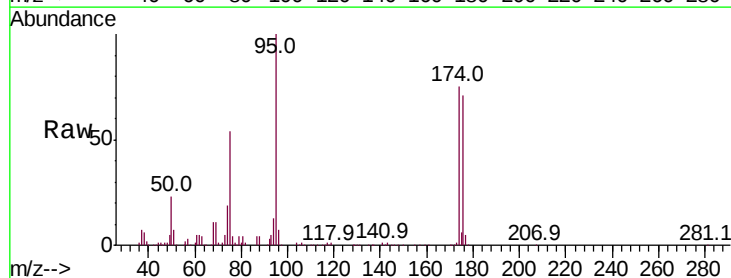


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

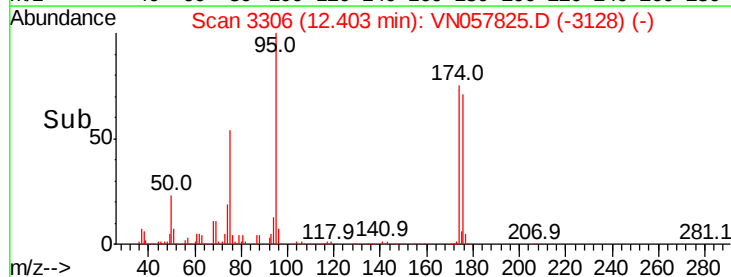
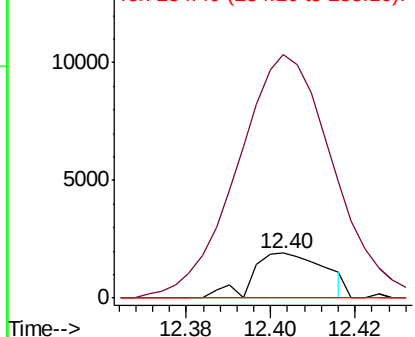


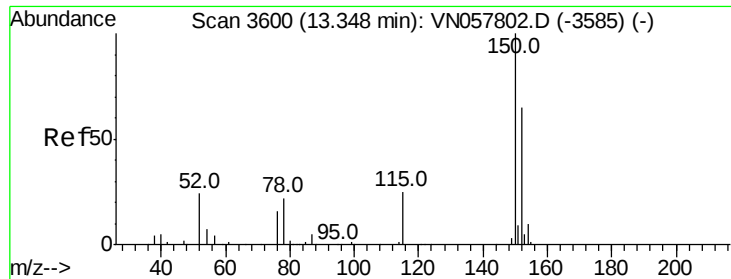
#71
Bromoform
Concen: 0.879 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN057825.D
Acq: 10 Sep 2019 00:38

Tgt Ion:173 Resp: 2275
Ion Ratio Lower Upper
173 100
175 650.5 23.5 70.6#
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# 3600

Delta R.T. 0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :

MSVOA_N

ClientSampleId :

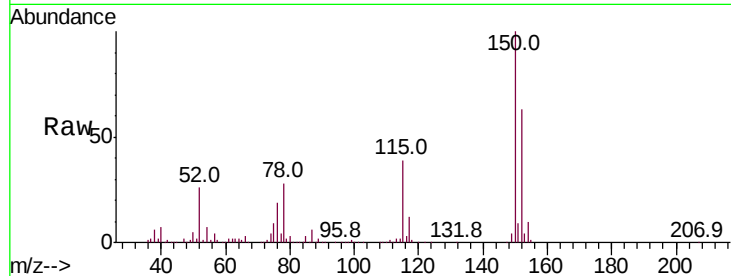
Tot Ion:152 Resp: 227785

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

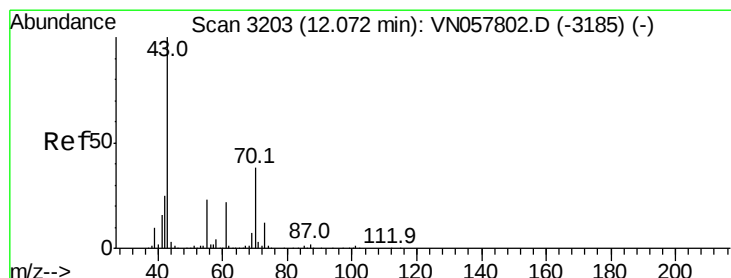
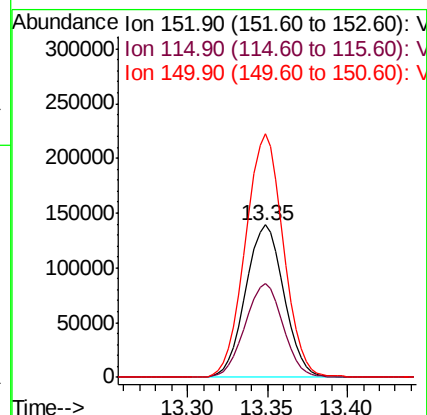
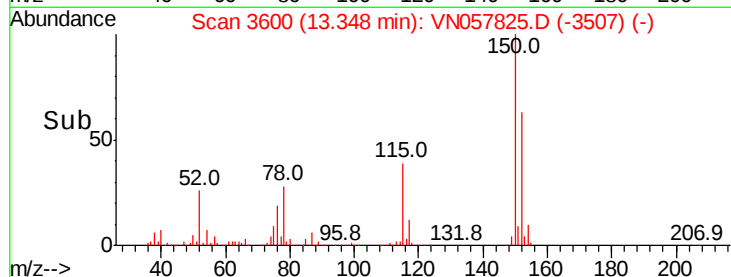
150 158.2 0.0 352.4



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



#74

N-ethyl acetate

Concen: 0.492 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Tgt Ion: 43 Resp: 3785

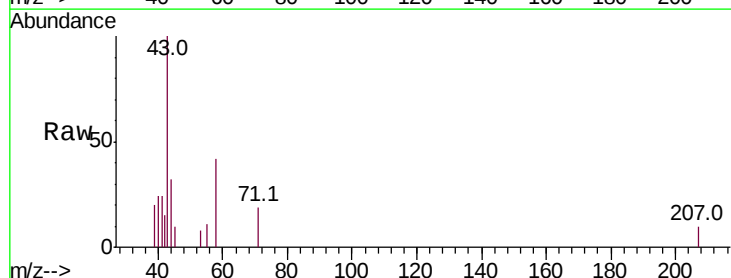
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 9.5 18.6 27.8#

61 0.0 17.4 26.2#

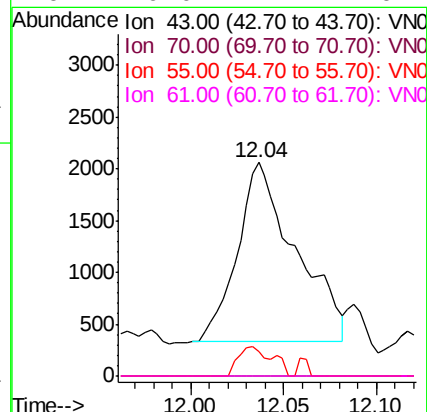
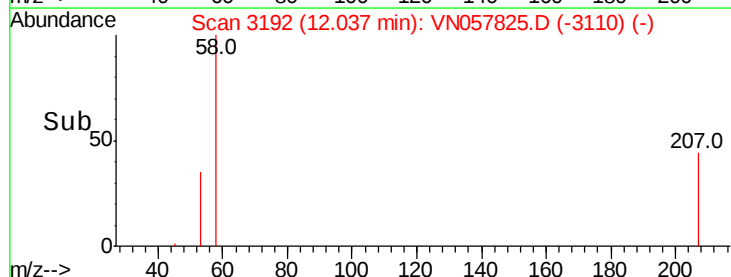


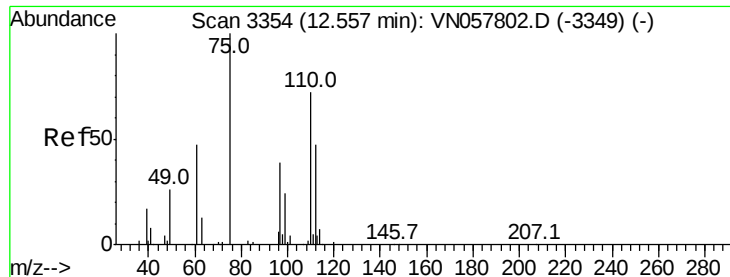
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.289 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :

MSVOA_N

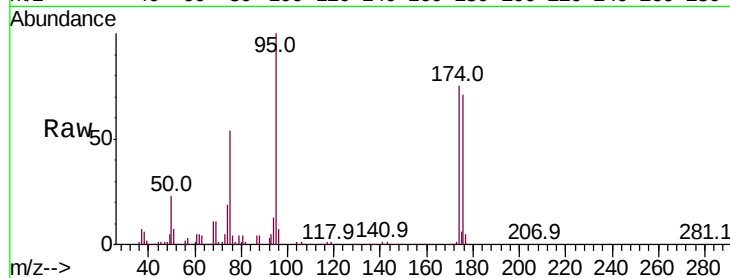
ClientSampled :

Tot Ion: 75 Resp: 161231

Ion Ratio Lower Upper

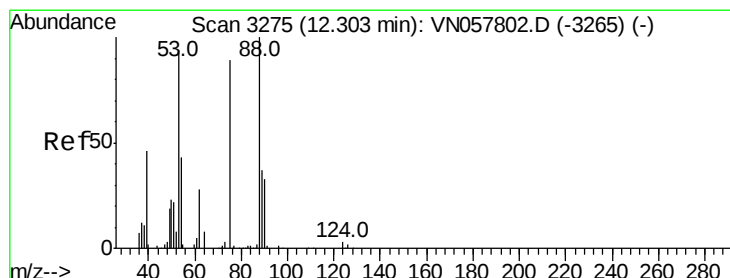
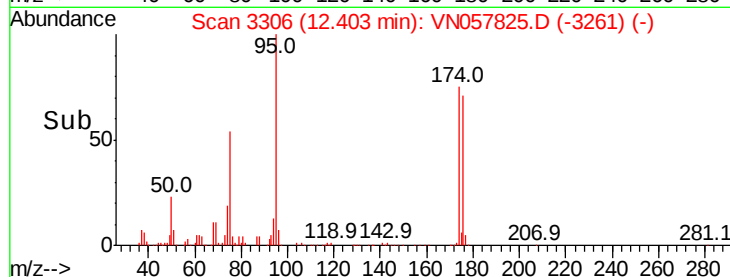
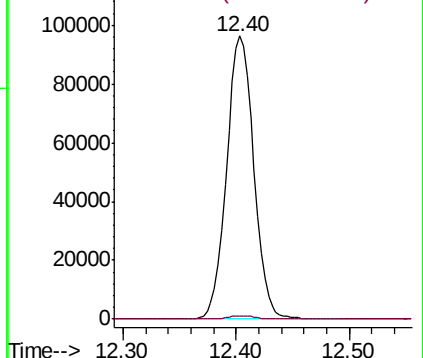
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 110.108 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

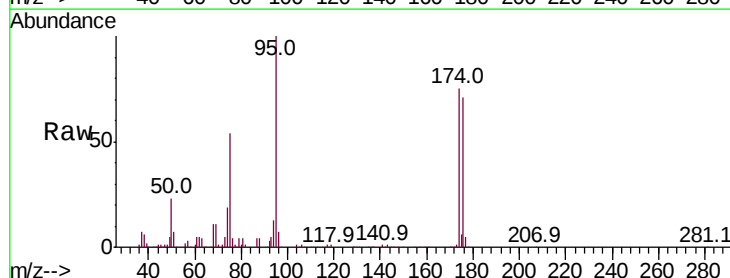
Tgt Ion: 75 Resp: 161231

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

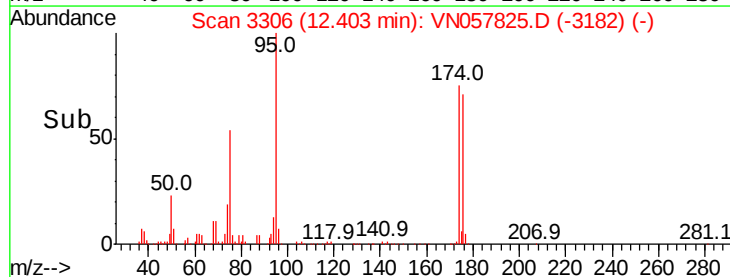
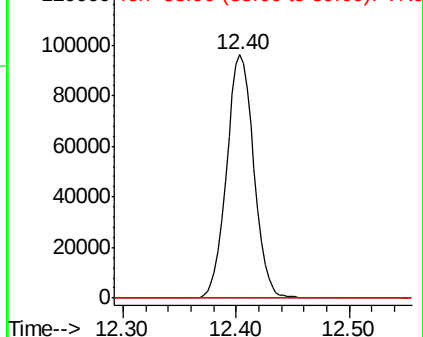
89 0.0 35.3 52.9#

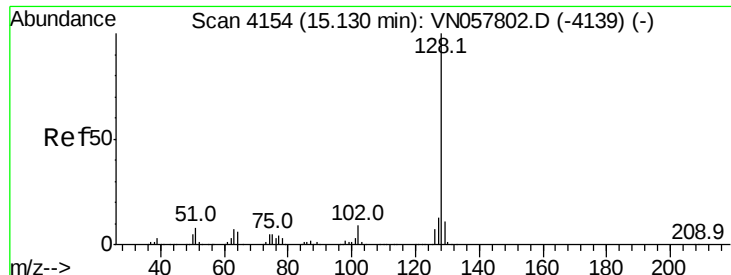


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

Instrument :

MSVOA_N

ClientSampled :

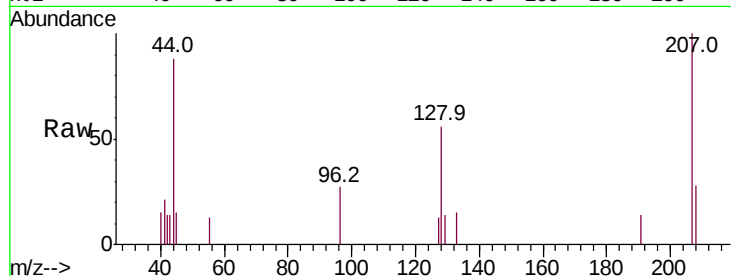
Tot Ion:128 Resp: 1261

Ion Ratio Lower Upper

128 100

127 2.4 10.3 15.5#

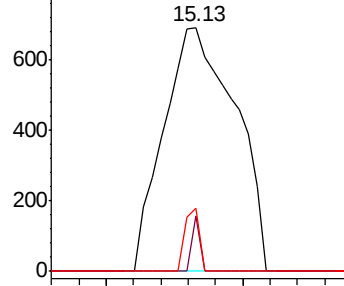
129 5.1 8.6 12.8#



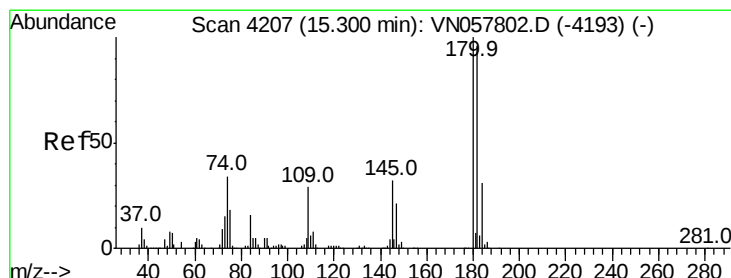
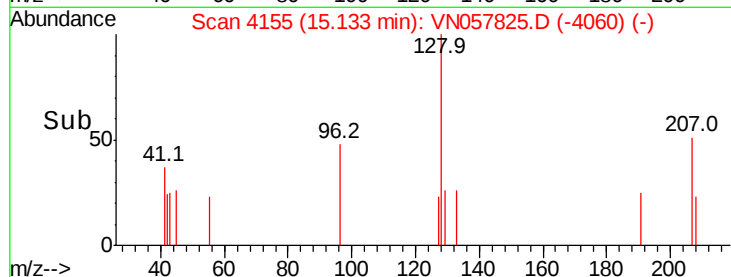
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 1.027 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057825.D

Acq: 10 Sep 2019 00:38

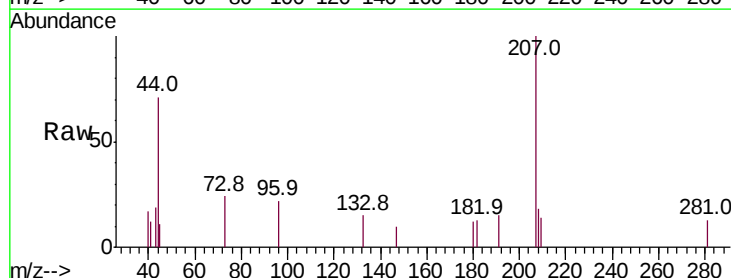
Tgt Ion:180 Resp: 136

Ion Ratio Lower Upper

180 100

182 133.8 48.3 144.8

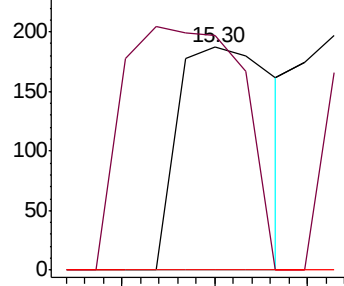
145 0.0 16.3 48.8#



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



Time-->

