

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092520\
 Data File : VD066899.D
 Acq On : 26 Sep 2020 04:28
 Operator : VA/SY
 Sample : L4154-09
 Misc : 5.08G/5.00ml/MSVOA D/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-5(11-13)

Quant Time: Sep 26 06:40:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092220S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 23 01:34:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	466032	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	793439	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	790936	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	364270	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	226163	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
35) Dibromofluoromethane	7.91	113	185877	36.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.64%	
50) Toluene-d8	10.34	98	957999	55.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.40%	
62) 4-Bromofluorobenzene	12.63	95	348899	59.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.52%	

Target Compounds

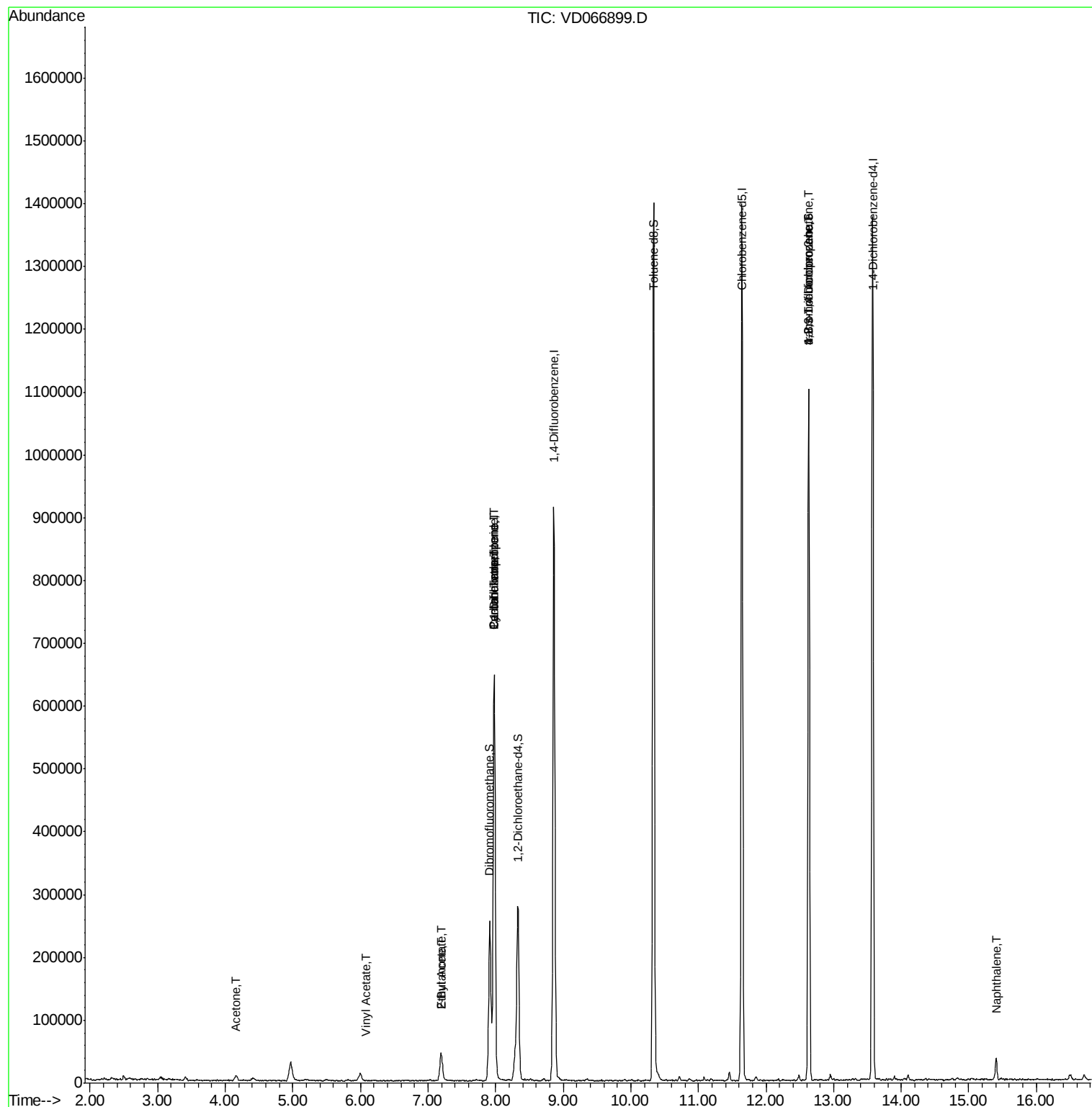
						Qvalue
2) Dichlorodifluoromethane	1.99	85	446	Below Cal	#	46
11) Tert butyl alcohol	5.17	59	1177	Below Cal	#	72
16) Acetone	4.16	43	14589	15.077	ug/l #	82
18) Methyl Acetate	4.89	43	65	Below Cal	#	50
20) Methylene Chloride	4.97	84	20987	Below Cal		96
23) Vinyl Acetate	6.09	43	63	2.680	ug/l #	71
25) 2-Butanone	7.20	43	5061	4.352	ug/l #	82
31) Cyclohexane	7.98	56	11637	1.403	ug/l #	4
36) 1,1-Dichloropropene	7.98	75	38175	4.850	ug/l #	50
37) Ethyl Acetate	7.20	43	5061	1.779	ug/l #	31
38) Carbon Tetrachloride	7.98	117	47482	5.517	ug/l #	18
49) 1,4-Dioxane	9.44	88	57	Below Cal	#	9
76) 1,2,3-Trichloropropane	12.63	75	179108	59.331	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	179108	148.441	ug/l #	10
95) Naphthalene	15.40	128	31603	2.843	ug/l	98

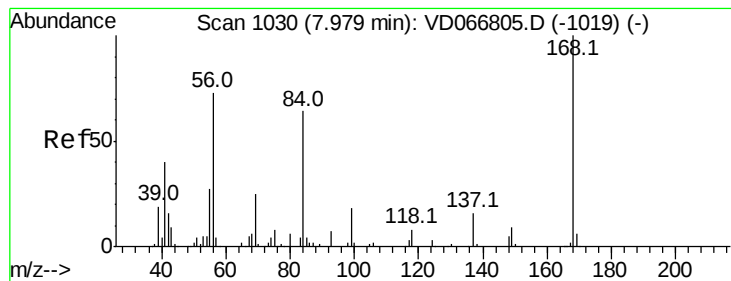
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

Instrument :

MSVOA_D

ClientSampleId :

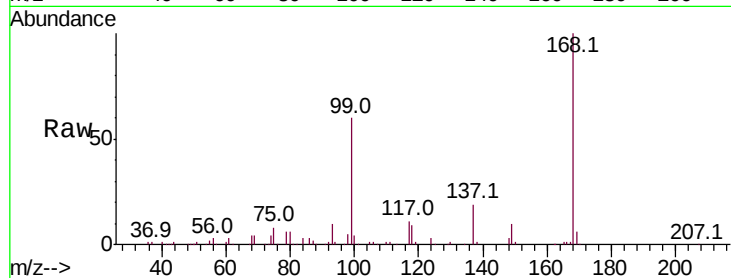
B-5(11-13)

Tot Ion:168 Resp: 466032

Ion Ratio Lower Upper

168 100

99 59.8 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

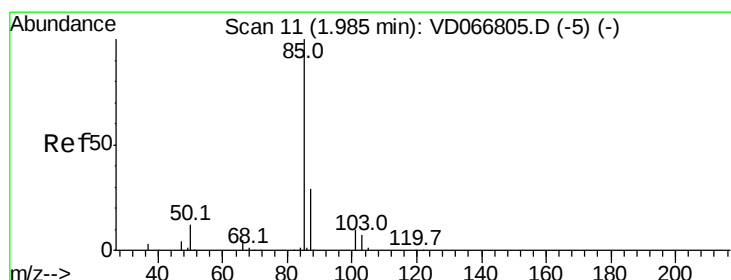
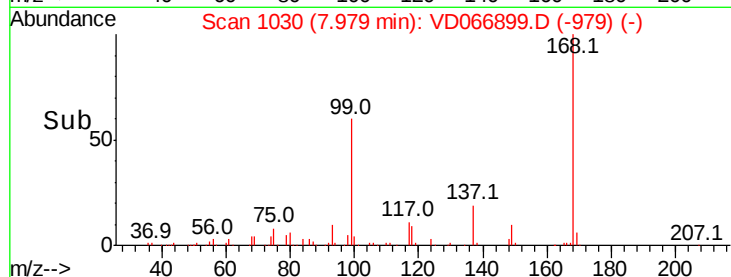
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD066899.D

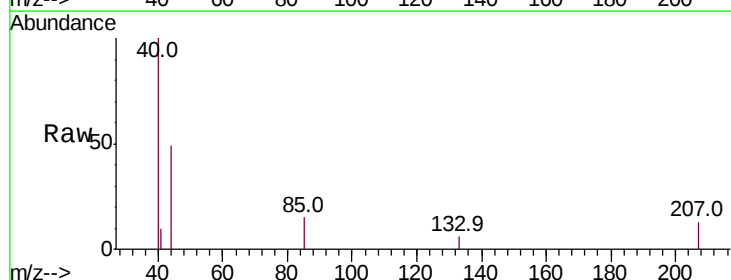
Acq: 26 Sep 2020 04:28

Tgt Ion: 85 Resp: 446

Ion Ratio Lower Upper

85 100

87 0.0 14.5 43.5#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

400

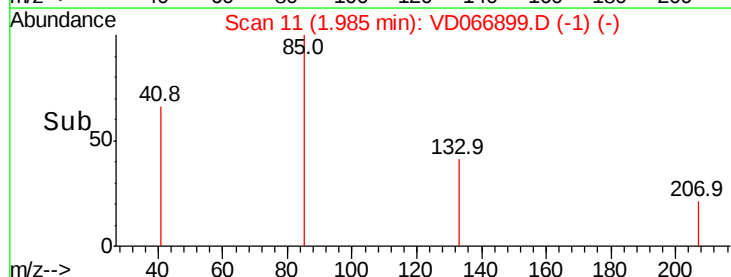
300

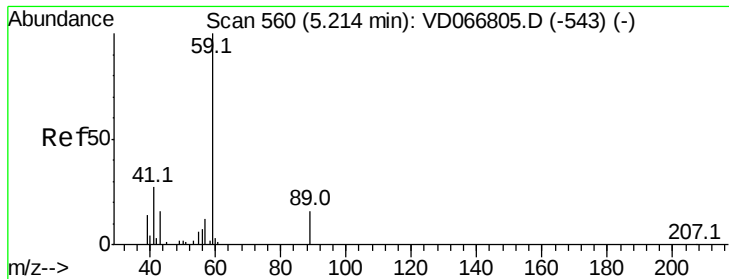
200

100

0

Time-->



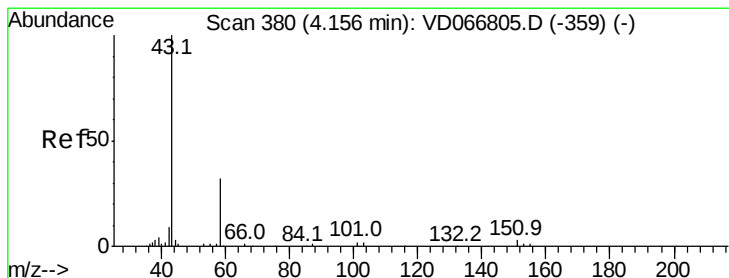
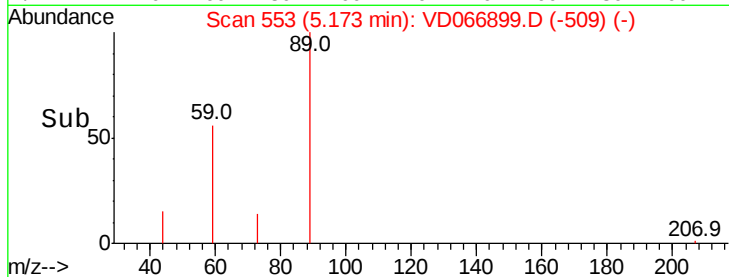
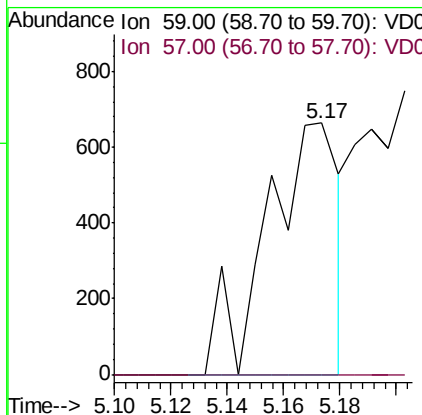
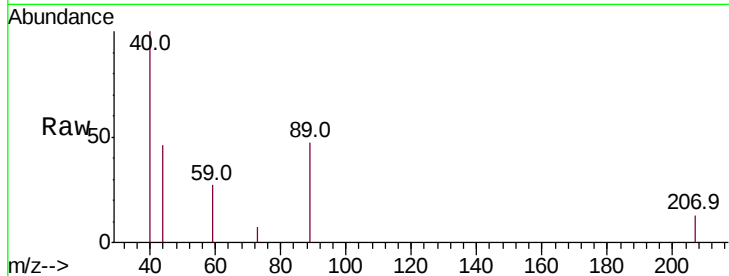


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.17 min Scan# 553
 Delta R.T. -0.04 min
 Lab File: VD066899.D
 Acq: 26 Sep 2020 04:28

Instrument :
 MSVOA_D
 ClientSampleId :
 B-5(11-13)

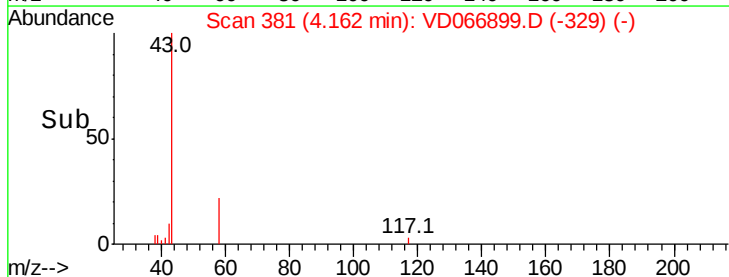
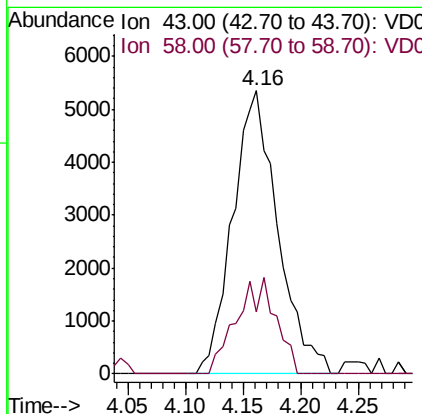
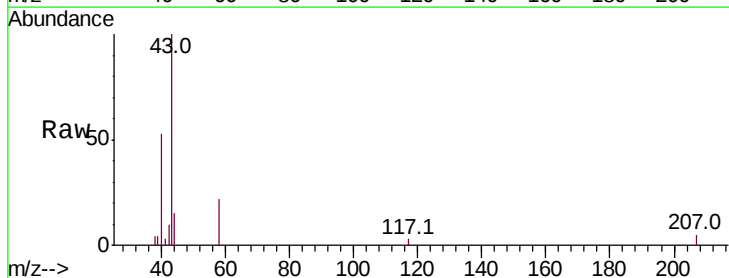
Tot Ion: 59 Resp: 1177
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

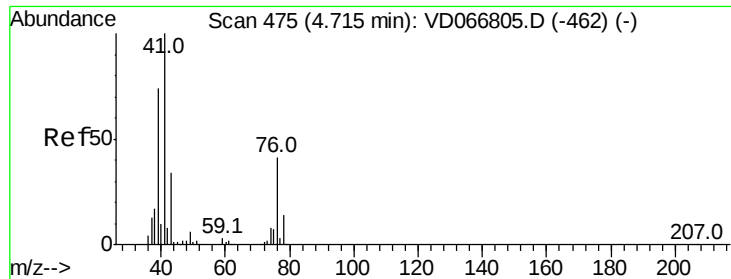


#16

Acetone
 Concen: 15.077 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VD066899.D
 Acq: 26 Sep 2020 04:28

Tgt Ion: 43 Resp: 14589
 Ion Ratio Lower Upper
 43 100
 58 21.8 25.6 38.4#

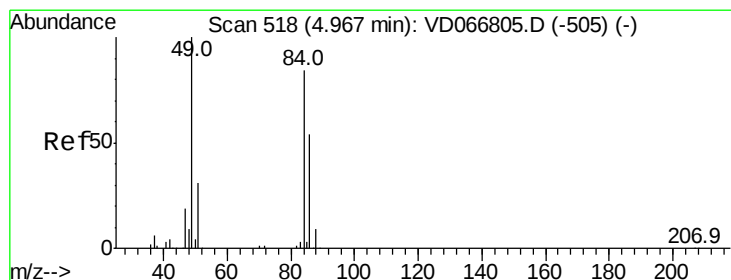
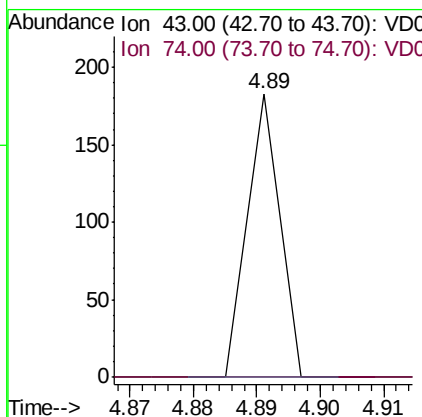
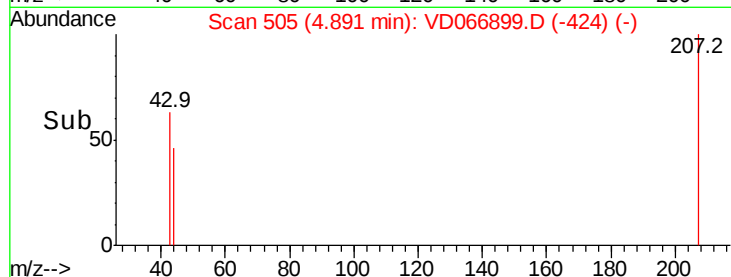
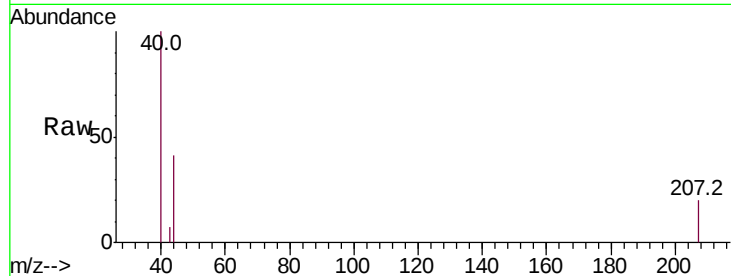




#18
Methyl Acetate
Concen: Below Cal
RT: 4.89 min Scan# 505
Delta R.T. 0.18 min
Lab File: VD066899.D
Acq: 26 Sep 2020 04:28

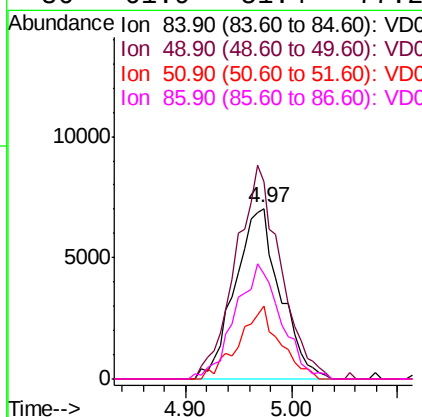
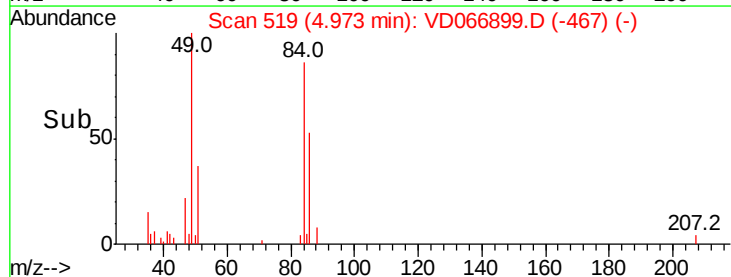
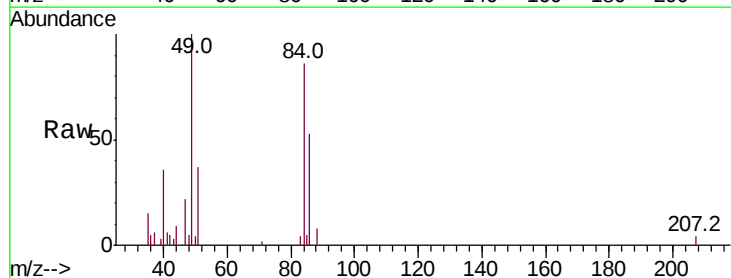
Instrument :
MSVOA_D
ClientSampleId :
B-5(11-13)

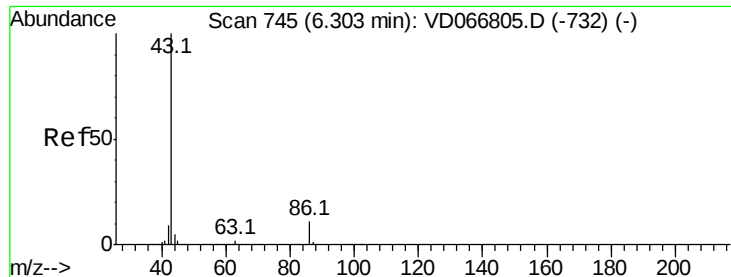
Tot Ion: 43 Resp: 65
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD066899.D
Acq: 26 Sep 2020 04:28

Tgt Ion: 84 Resp: 20987
Ion Ratio Lower Upper
84 100
49 115.9 95.4 143.2
51 42.7 29.7 44.5
86 61.9 51.4 77.2





#23

Vinyl Acetate

Concen: 2.680 ug/l

RT: 6.09 min Scan# 708

Delta R.T. -0.22 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

Instrument :

MSVOA_D

ClientSampleId :

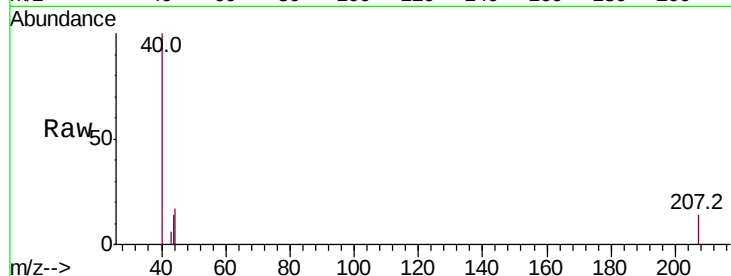
B-5(11-13)

Tot Ion: 43 Resp: 63

Ion Ratio Lower Upper

43 100

86 0.0 8.9 13.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.09

200

150

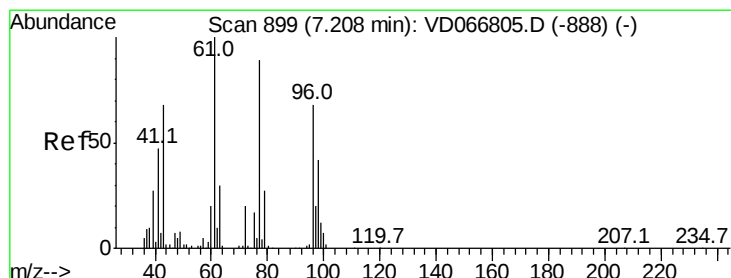
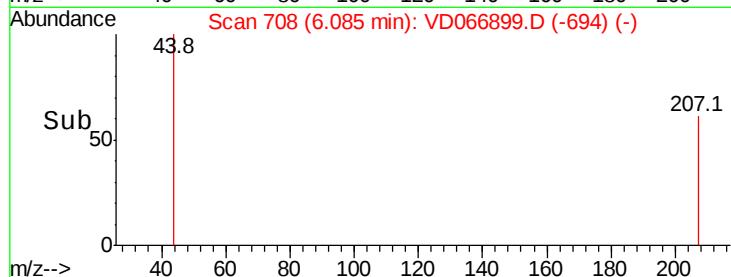
100

50

0

6.07 6.08 6.09 6.10

Time-->



#25

2-Butanone

Concen: 4.352 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD066899.D

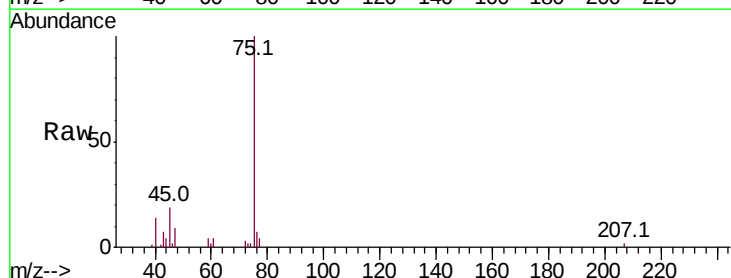
Acq: 26 Sep 2020 04:28

Tgt Ion: 43 Resp: 5061

Ion Ratio Lower Upper

43 100

72 38.2 22.9 34.3#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.20

1500

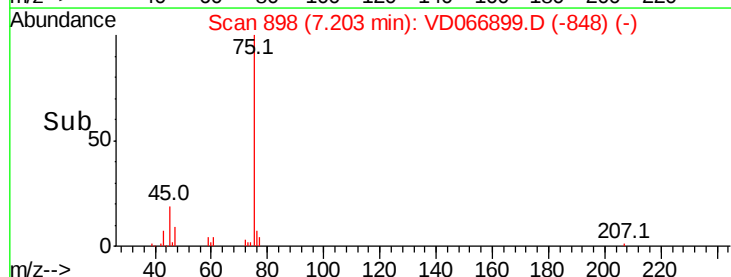
1000

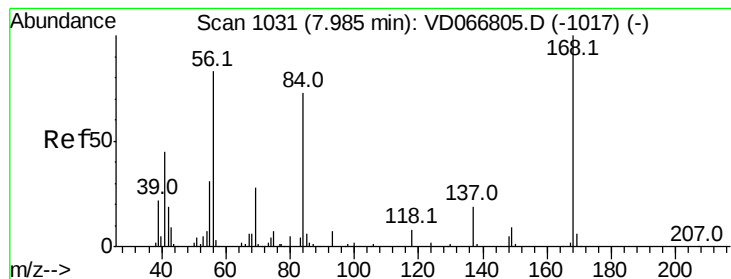
500

0

7.10 7.15 7.20 7.25 7.30

Time-->





#31

Cyclohexane

Concen: 1.403 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

Instrument :

MSVOA_D

ClientSampleId :

B-5(11-13)

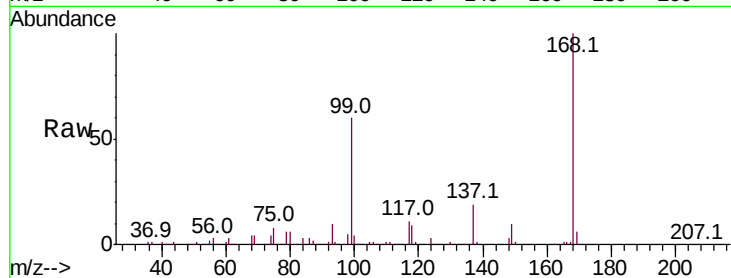
Tot Ion: 56 Resp: 11637

Ion Ratio Lower Upper

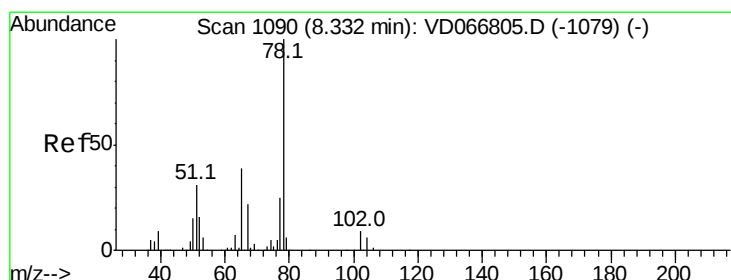
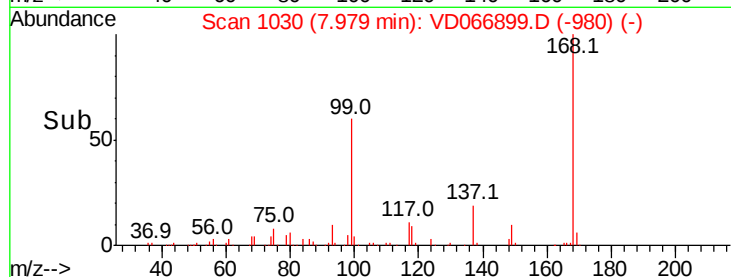
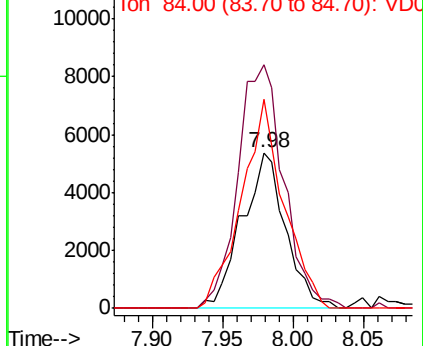
56 100

69 156.7 27.0 40.4#

84 134.5 70.2 105.4#



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



#33

1,2-Dichloroethane-d4

Concen: 49.583 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VD066899.D

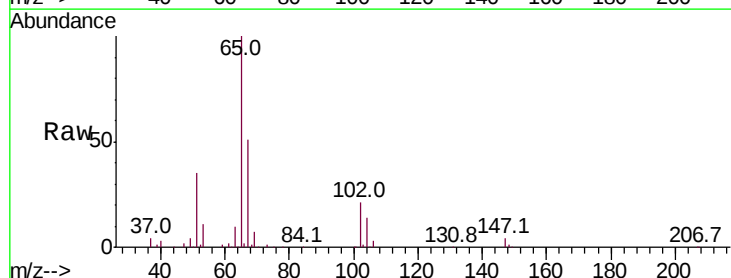
Acq: 26 Sep 2020 04:28

Tgt Ion: 65 Resp: 226163

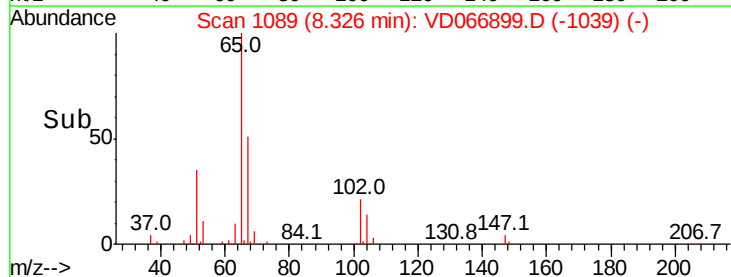
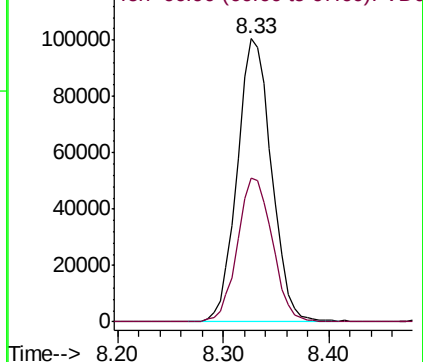
Ion Ratio Lower Upper

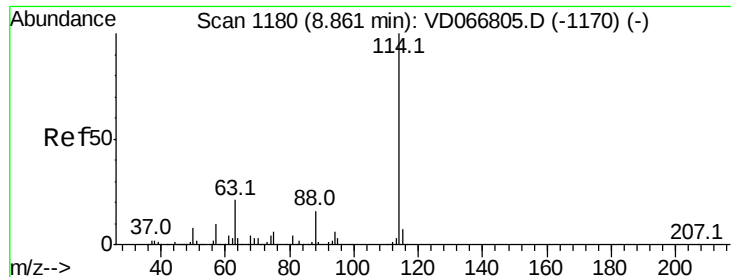
65 100

67 51.8 0.0 107.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

Instrument :

MSVOA_D

ClientSampleId :

B-5(11-13)

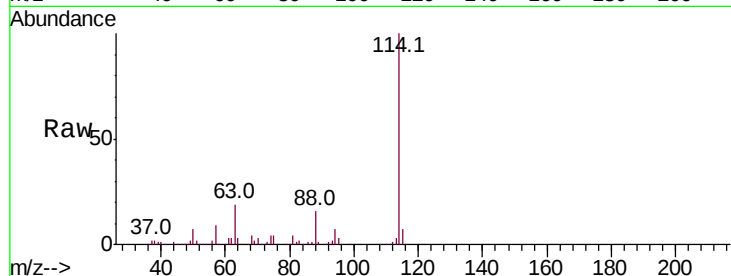
Tot Ion:114 Resp: 793439

Ion Ratio Lower Upper

114 100

63 19.3 0.0 42.6

88 15.9 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V

500000

400000

300000

200000

100000

0

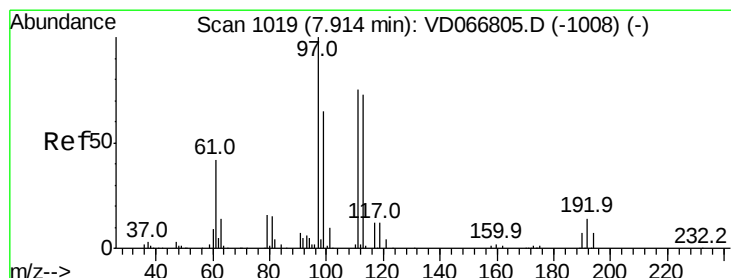
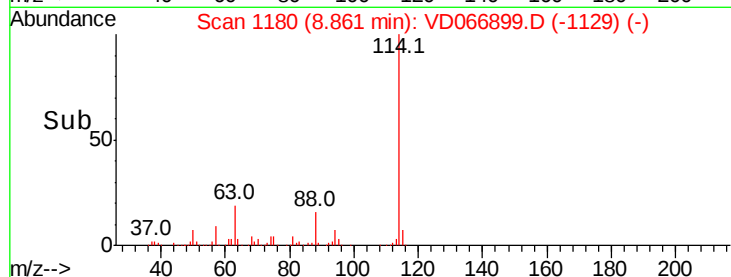
8.86

8.80

8.90

9.00

Time-->



#35

Dibromofluoromethane

Concen: 36.823 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

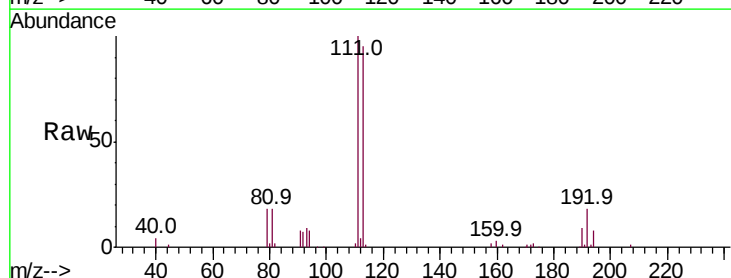
Tgt Ion:113 Resp: 185877

Ion Ratio Lower Upper

113 100

111 99.5 81.8 122.8

192 18.8 14.4 21.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

100000

80000

60000

40000

20000

0

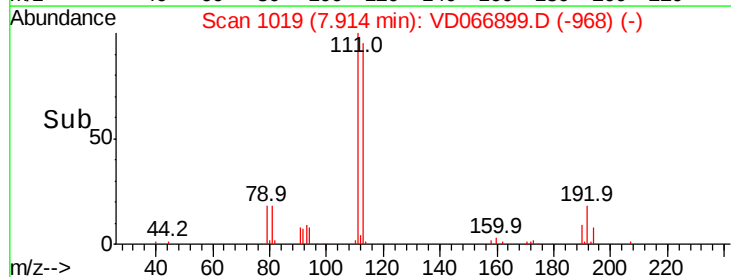
7.91

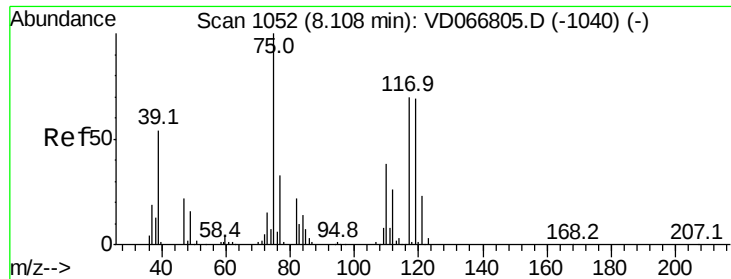
7.80

7.90

8.00

Time-->





#36

1,1-Dichloropropene

Concen: 4.850 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

Instrument :

MSVOA_D

ClientSampleId :

B-5(11-13)

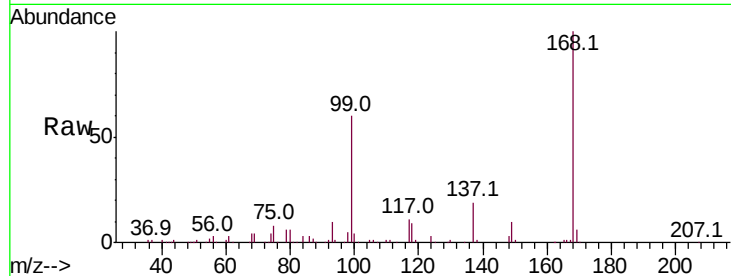
Tot Ion: 75 Resp: 38175

Ion Ratio Lower Upper

75 100

110 9.4 17.9 53.8#

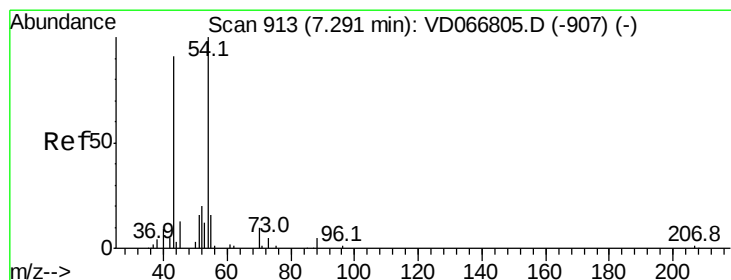
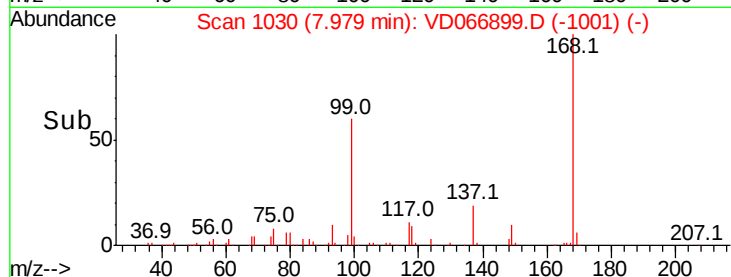
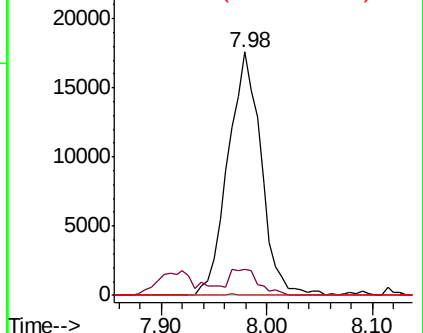
77 0.1 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 1.779 ug/l

RT: 7.20 min Scan# 898

Delta R.T. -0.09 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

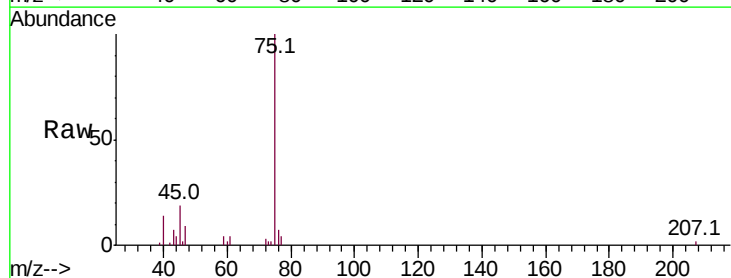
Tgt Ion: 43 Resp: 5061

Ion Ratio Lower Upper

43 100

61 53.4 9.8 14.8#

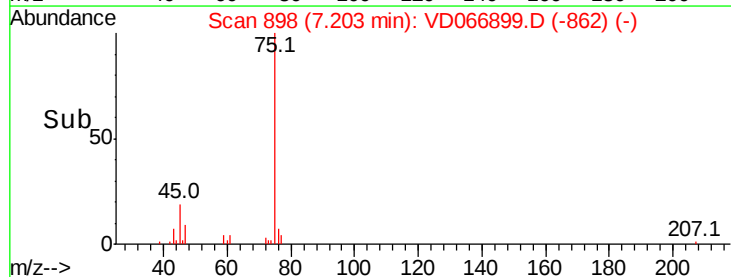
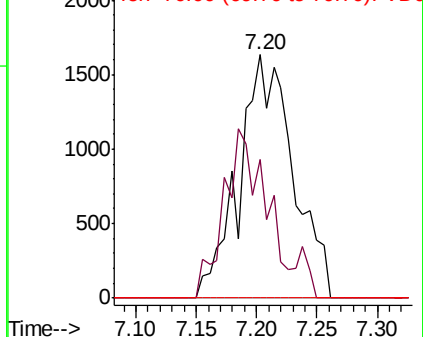
70 0.0 8.5 12.7#

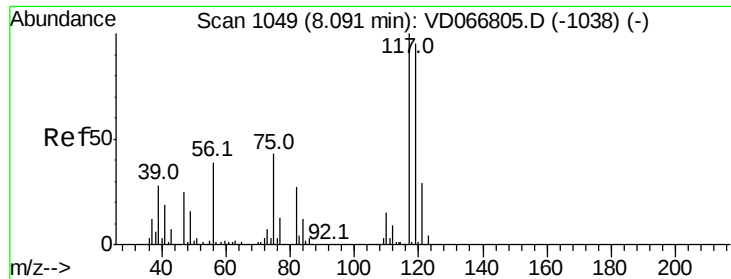


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.517 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.11 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

Instrument :

MSVOA_D

ClientSampleId :

B-5(11-13)

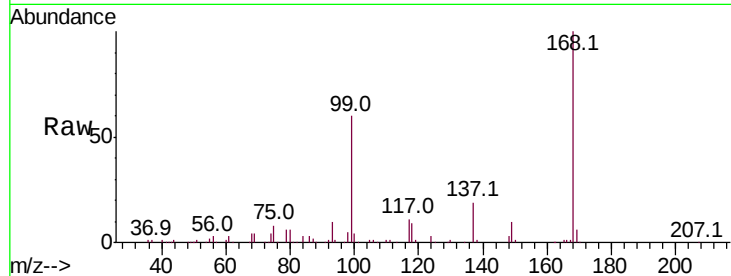
Tot Ion:117 Resp: 47482

Ion Ratio Lower Upper

117 100

119 6.8 75.8 113.8#

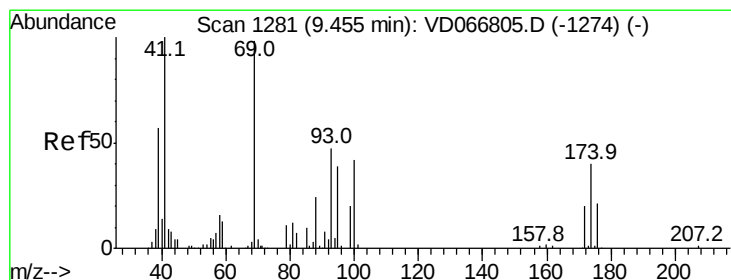
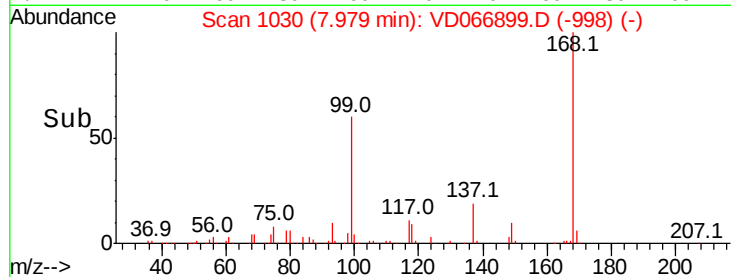
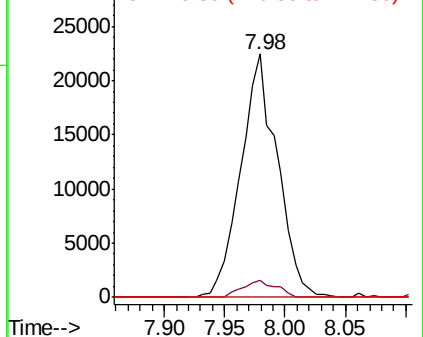
121 0.0 23.4 35.0#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.44 min Scan# 1278

Delta R.T. -0.02 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

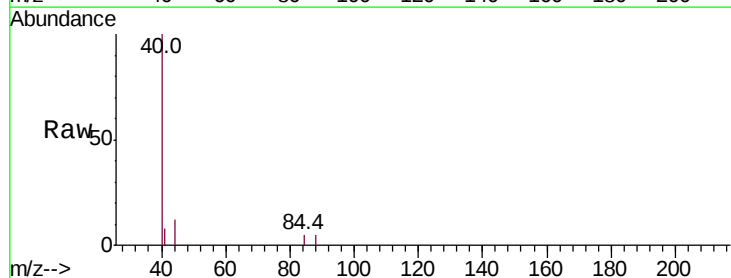
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 94.7 27.7 41.5#

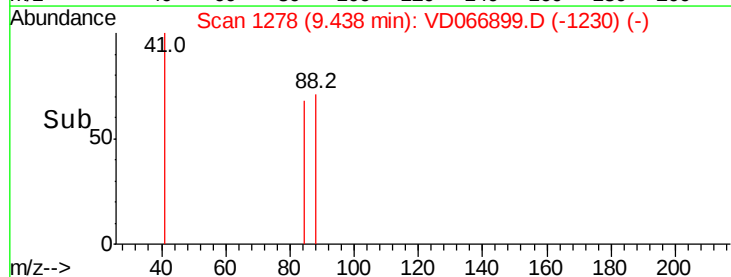
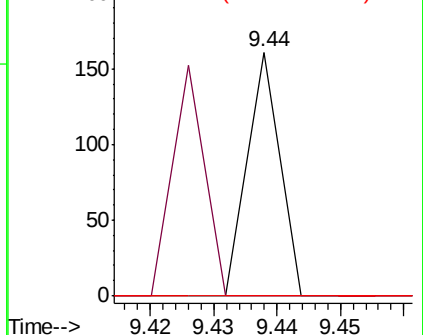
58 0.0 55.5 83.3#

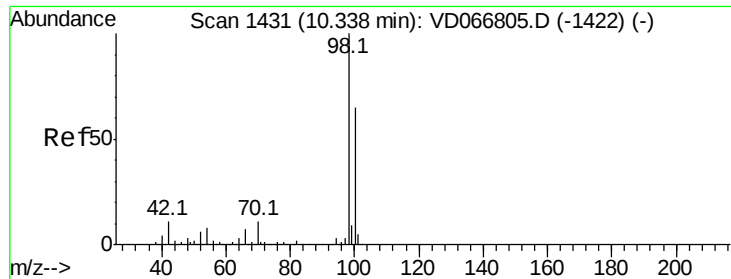


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

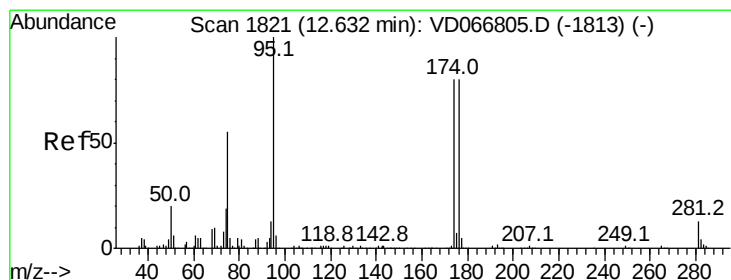
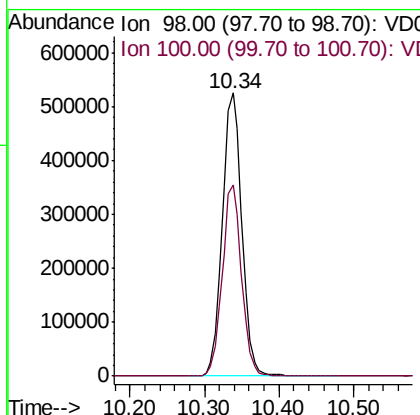
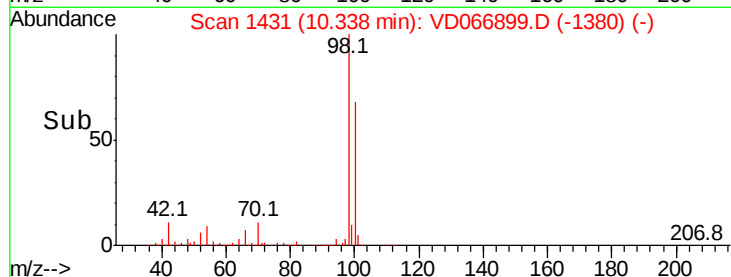
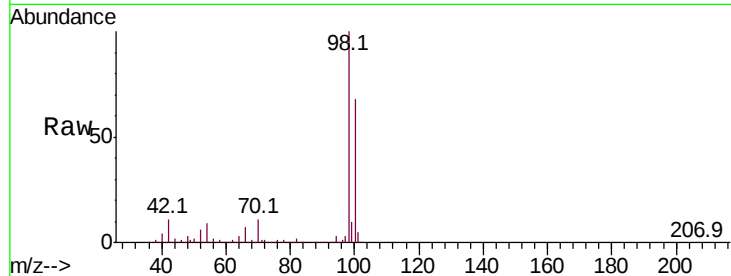




#50
Toluene-d8
Concen: 55.701 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD066899.D
Acq: 26 Sep 2020 04:28

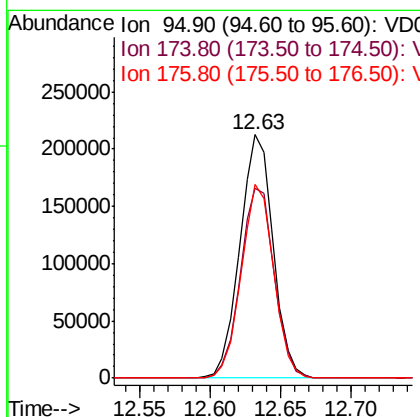
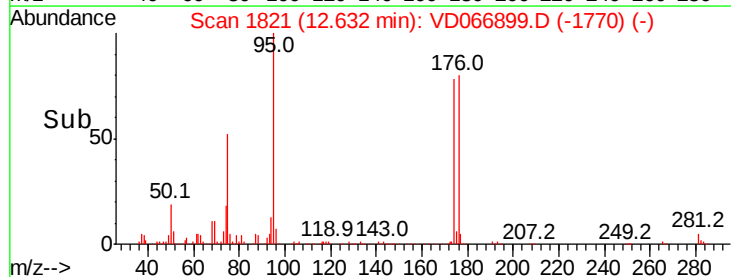
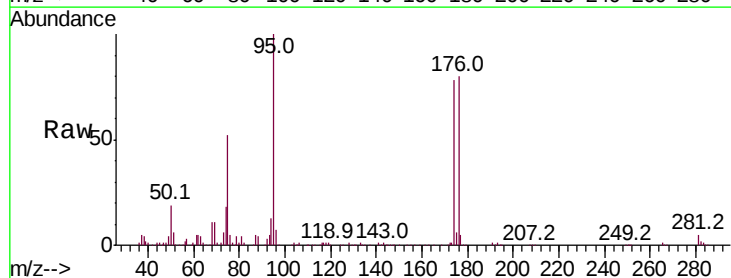
Instrument :
MSVOA_D
ClientSampleId :
B-5(11-13)

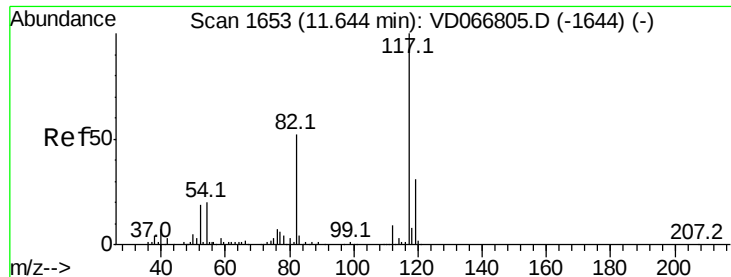
Tot Ion: 98 Resp: 957999
Ion Ratio Lower Upper
98 100
100 66.5 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 59.258 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD066899.D
Acq: 26 Sep 2020 04:28

Tgt Ion: 95 Resp: 348899
Ion Ratio Lower Upper
95 100
174 80.1 0.0 159.8
176 78.2 0.0 154.4

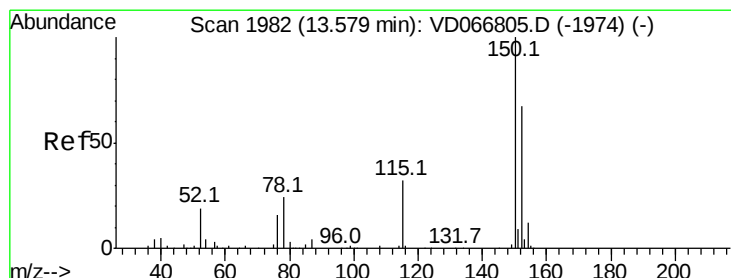
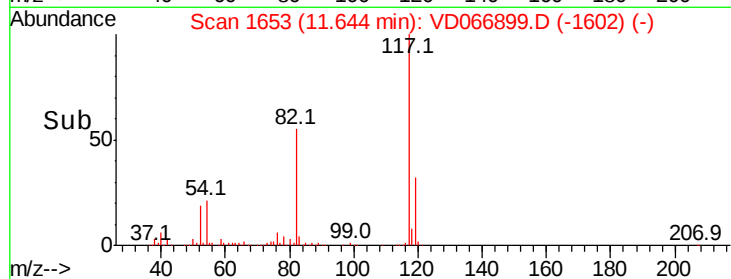
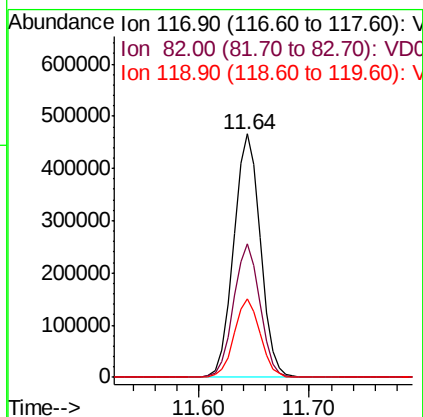
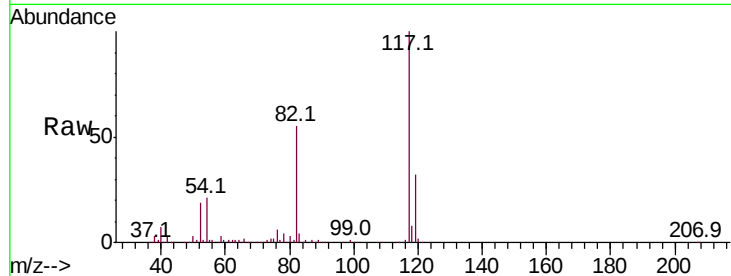




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD066899.D
Acq: 26 Sep 2020 04:28

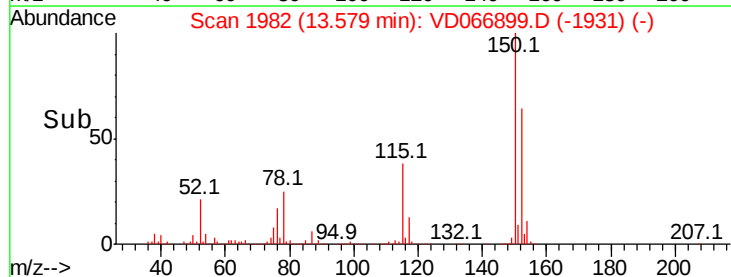
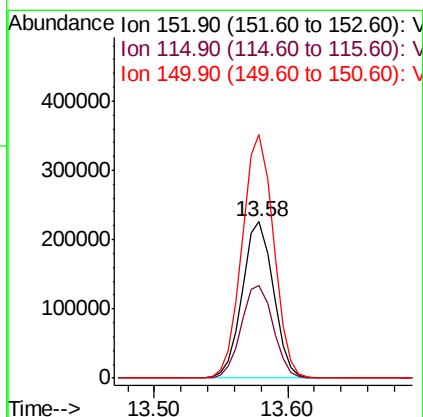
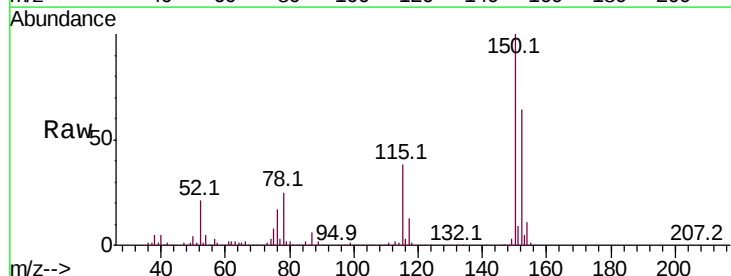
Instrument :
MSVOA_D
ClientSampleId :
B-5(11-13)

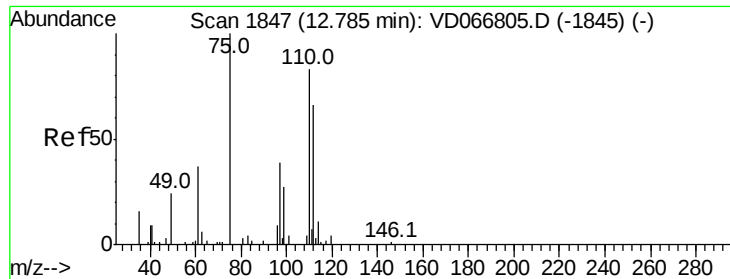
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.7	41.8	62.6
119	32.4	24.6	37.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD066899.D
Acq: 26 Sep 2020 04:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	30.3	91.0
150	157.2	0.0	346.2





#76

1,2,3-Trichloropropane

Concen: 59.331 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

Instrument :

MSVOA_D

ClientSampleId :

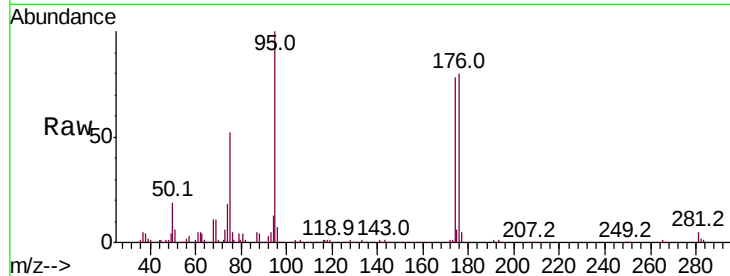
B-5(11-13)

Tot Ion: 75 Resp: 179108

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC

12.63

120000

100000

80000

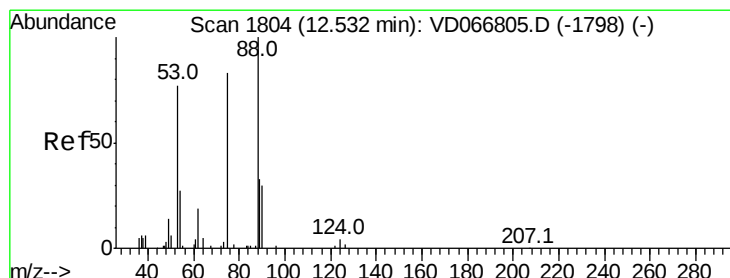
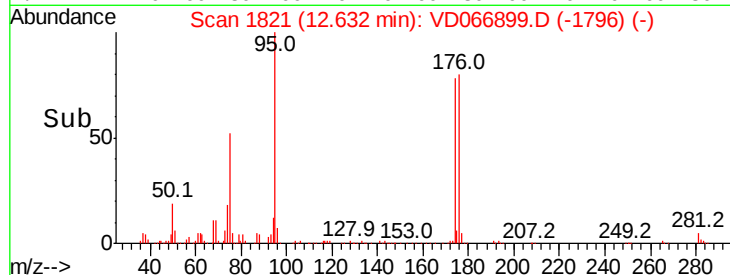
60000

40000

20000

0

Time--> 12.55 12.60 12.65 12.70



#81

trans-1,4-Dichloro-2-butene

Concen: 148.441 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.10 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

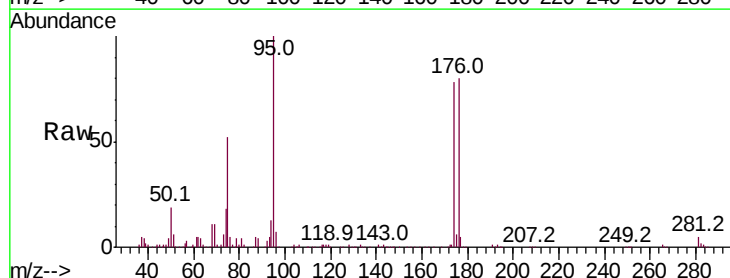
Tgt Ion: 75 Resp: 179108

Ion Ratio Lower Upper

75 100

53 0.2 78.5 117.7#

89 0.1 38.1 57.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

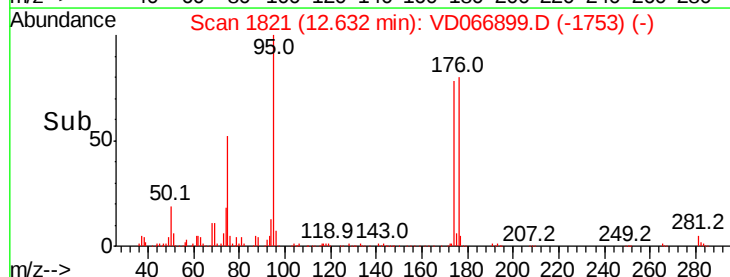
150000

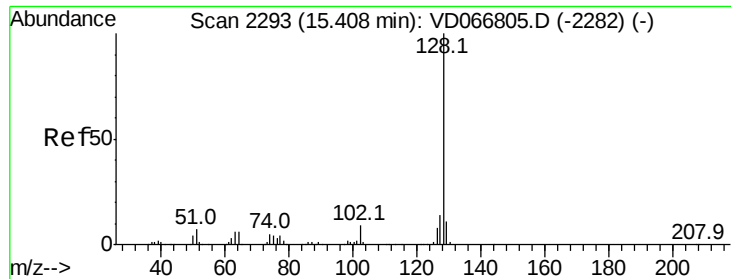
100000

50000

0

Time--> 12.55 12.60 12.65 12.70





#95

Naphthalene

Concen: 2.843 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD066899.D

Acq: 26 Sep 2020 04:28

Instrument :

MSVOA_D

ClientSampleId :

B-5(11-13)

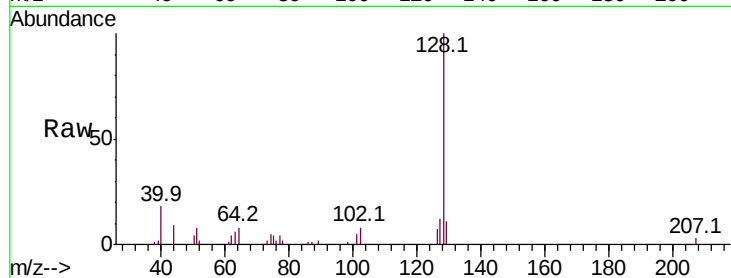
Tot Ion:128 Resp: 31603

Ion Ratio Lower Upper

128 100

127 14.8 10.6 16.0

129 11.4 8.9 13.3



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

