

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061819\
 Data File : VD062769.D
 Acq On : 19 Jun 2019 2:50
 Operator : VA/AP
 Sample : K3163-11
 Misc : 7.18g/5ml/MSVOA D/SOIL
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 07:05:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 00:02:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	658097	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	905738	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	686146	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	294971	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.45	65	361742	38.09	ug/l	0.00
Spiked Amount			Recovery	=	76.18%	
35) Dibromofluoromethane	6.93	113	358237	37.50	ug/l	0.01
Spiked Amount			Recovery	=	75.00%	
50) Toluene-d8	10.42	98	726628	36.16	ug/l	0.00
Spiked Amount			Recovery	=	72.32%	
62) 4-Bromofluorobenzene	13.56	95	298638	31.86	ug/l	0.00
Spiked Amount			Recovery	=	63.72%	

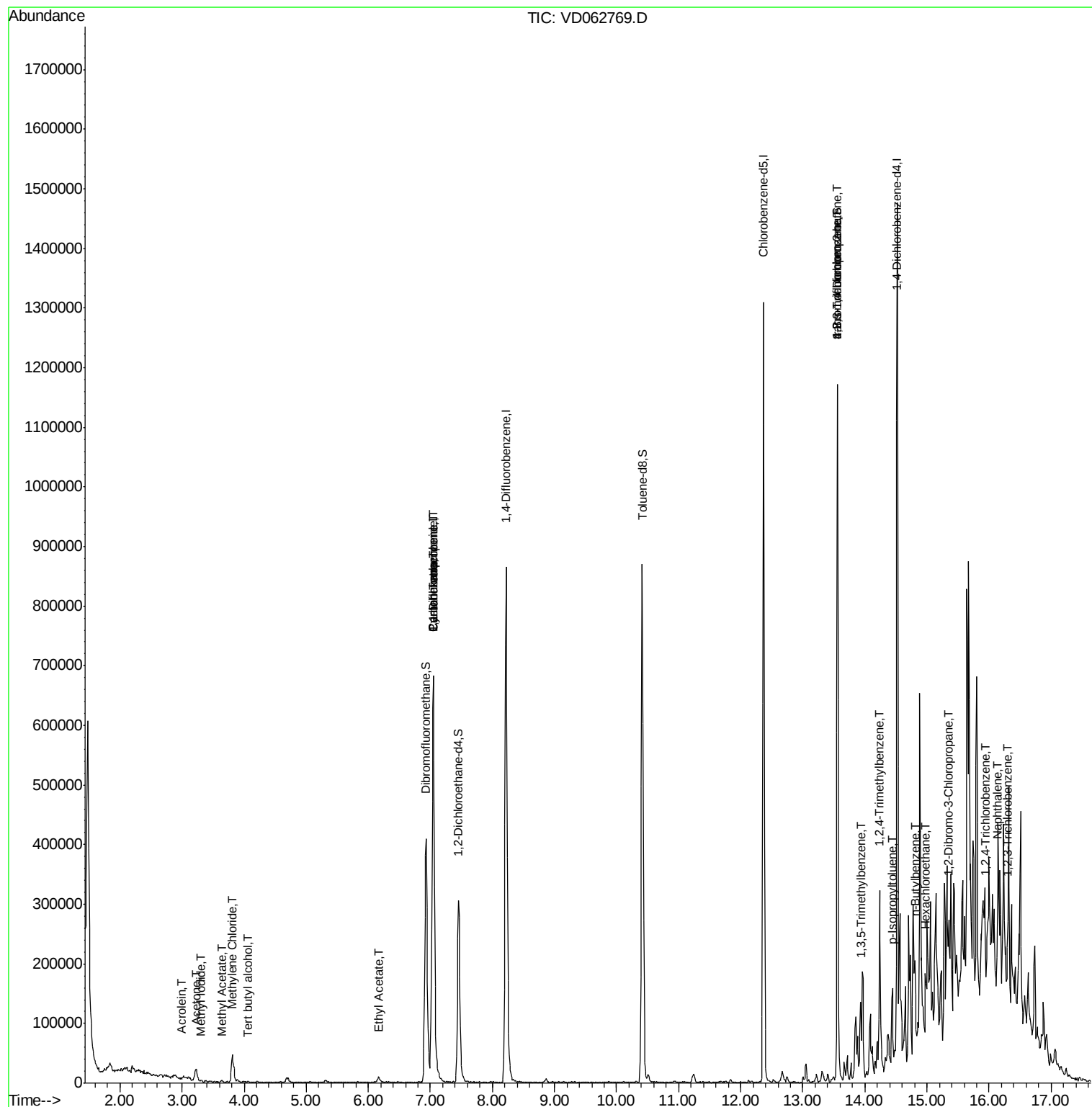
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.58	85	202	Below Cal	#	42
10) Methyl Iodide	3.31	142	1426	4.120	ug/l #	73
11) Tert butyl alcohol	4.07	59	513	1.314	ug/l #	61
13) Acrolein	2.98	56	203	1.617	ug/l #	40
16) Acetone	3.23	43	44177	25.405	ug/l	98
18) Methyl Acetate	3.65	43	3987	1.395	ug/l #	64
20) Methylene Chloride	3.81	84	24914	3.380	ug/l #	68
31) Cyclohexane	7.04	56	16735	2.233	ug/l #	15
36) 1,1-Dichloropropene	7.05	75	57278	5.525	ug/l #	56
37) Ethyl Acetate	6.15	43	858	1.390	ug/l #	74
38) Carbon Tetrachloride	7.05	117	71526	4.365	ug/l #	17
76) 1,2,3-Trichloropropane	13.56	75	99236	24.812	ug/l #	44
80) 1,3,5-Trimethylbenzene	13.93	105	37924	2.064	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.56	75	139646	112.461	ug/l #	1
84) 1,2,4-Trimethylbenzene	14.24	105	134451	7.390	ug/l	95
86) p-Isopropyltoluene	14.44	119	22532	1.089	ug/l	91
89) n-Butylbenzene	14.80	91	48243	2.592	ug/l	89
90) Hexachloroethane	14.98	117	6388	1.169	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	15.35	75	1048	1.379	ug/l #	17
93) 1,2,4-Trichlorobenzene	15.95	180	1185	3.713	ug/l #	1
95) Naphthalene	16.13	128	19315	5.130	ug/l #	94
96) 1,2,3-Trichlorobenzene	16.29	180	6583	1.277	ug/l #	1

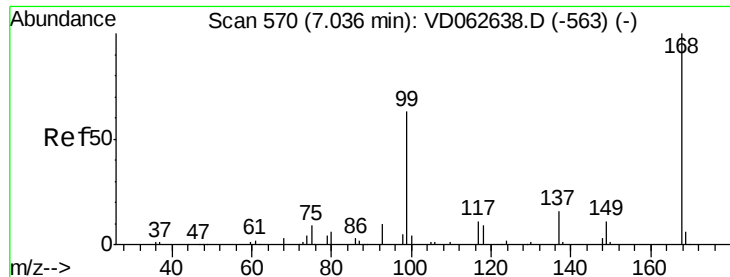
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VD062769.D
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Sample : K3163-11
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Quant Time: Jun 19 07:05:01 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D060719S.M
Quant Title : SW846 8260
QLast Update : Sat Jun 08 00:02:21 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

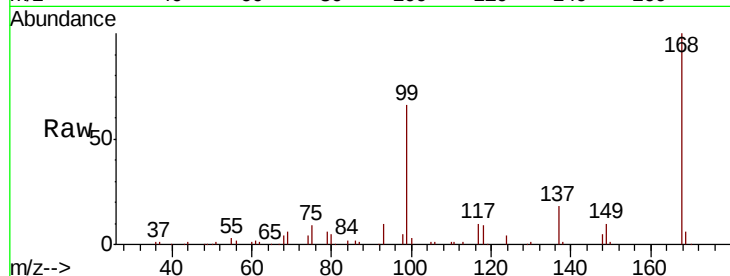
ClientSampleId :

Tot Ion:168 Resp: 658097

Ion Ratio Lower Upper

168 100

99 66.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

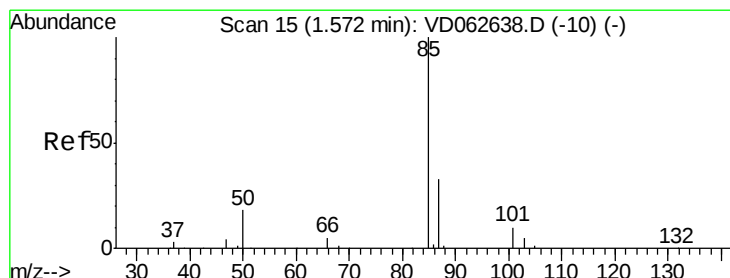
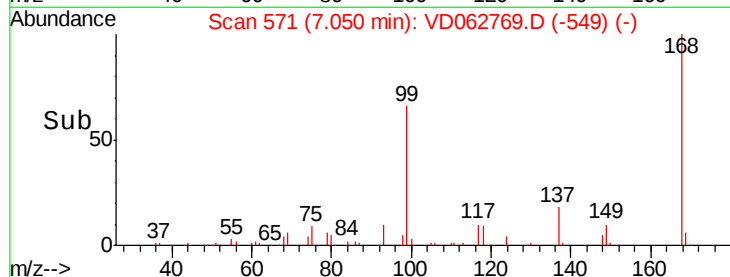
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.58 min Scan# 15

Delta R.T. 0.01 min

Lab File: VD062769.D

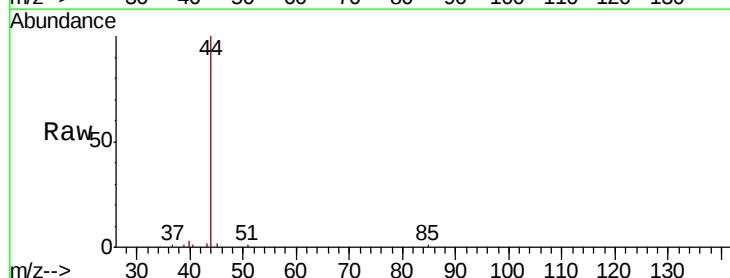
Acq: 19 Jun 2019 2:50

Tgt Ion: 85 Resp: 202

Ion Ratio Lower Upper

85 100

87 0.0 16.6 49.7#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.58

400

300

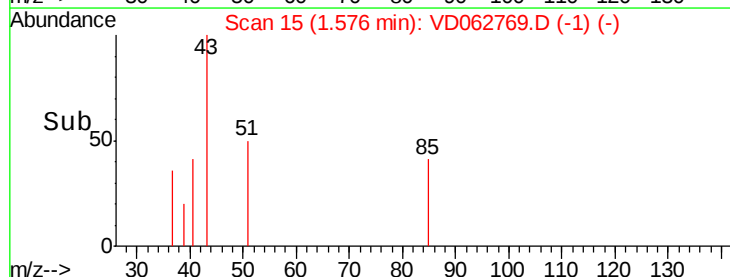
200

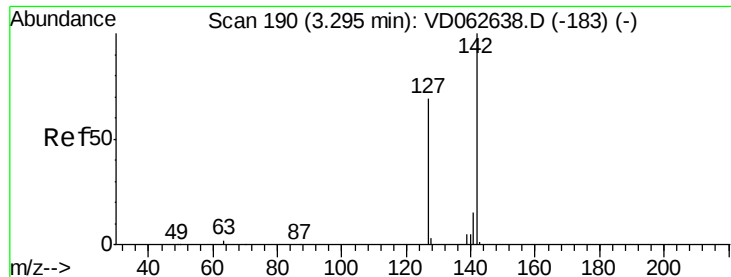
100

0

1.54 1.56 1.58 1.60

Time-->

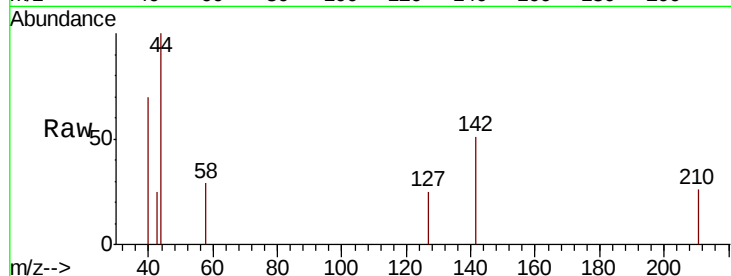




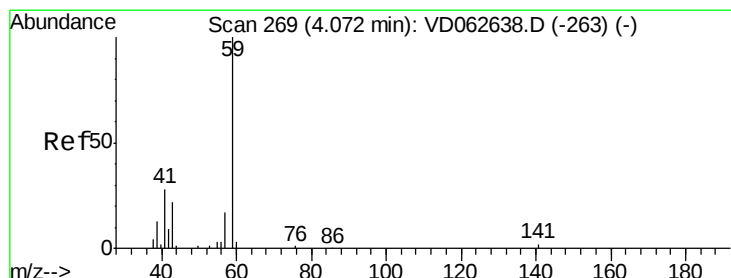
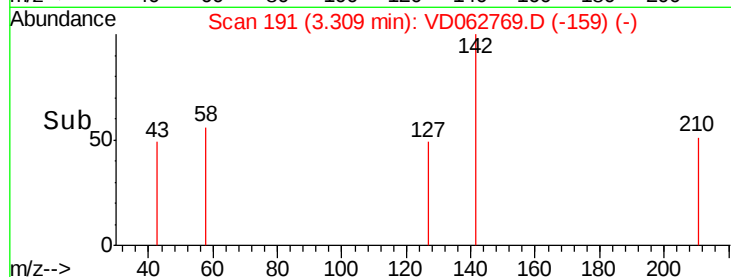
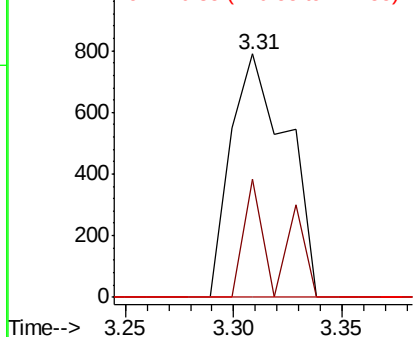
#10
Methyl Iodide
Concen: 4.120 ug/l
RT: 3.31 min Scan# 191
Delta R.T. 0.01 min
Lab File: VD062769.D
Acq: 19 Jun 2019 2:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 142 Resp: 1426
Ion Ratio Lower Upper
142 100
127 48.7 55.2 82.8#
141 0.0 12.1 18.1#

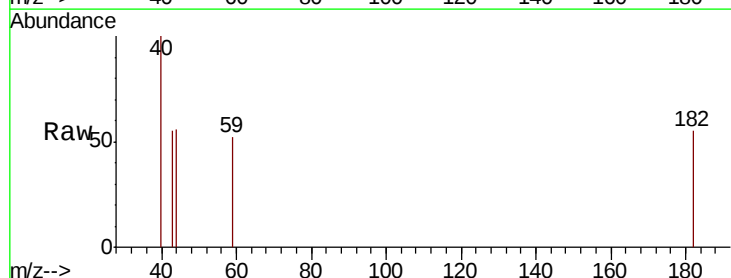


Abundance Ion 141.85 (141.55 to 142.55): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.85 (140.55 to 141.55): V

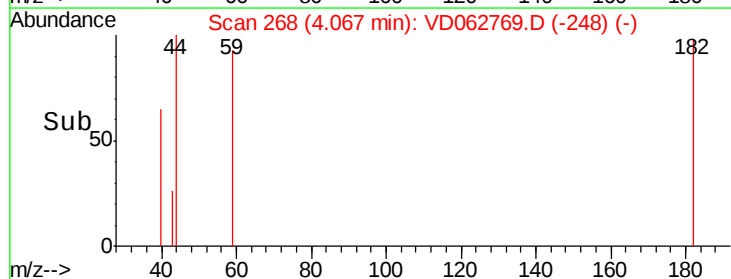
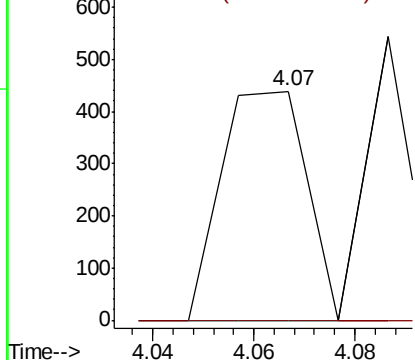


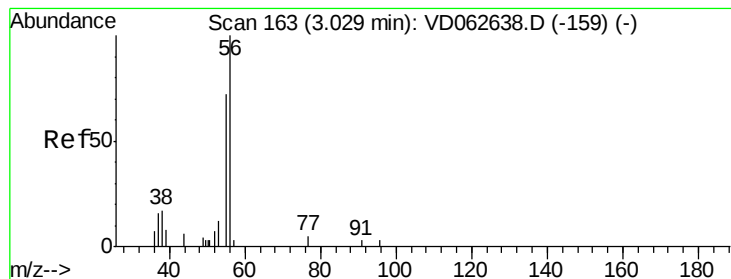
#11
Tert butyl alcohol
Concen: 1.314 ug/l
RT: 4.07 min Scan# 268
Delta R.T. -0.01 min
Lab File: VD062769.D
Acq: 19 Jun 2019 2:50

Tgt Ion: 59 Resp: 513
Ion Ratio Lower Upper
59 100
57 0.0 13.7 20.5#



Abundance Ion 58.95 (58.65 to 59.65): V
Ion 56.95 (56.65 to 57.65): V





#13

Acrolein

Concen: 1.617 ug/l

RT: 2.98 min Scan# 158

Delta R.T. -0.05 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

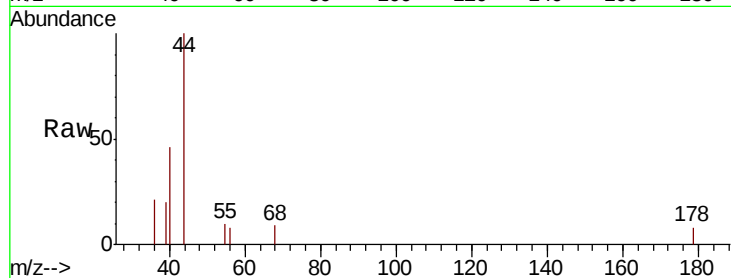
ClientSampleId :

Tot Ion: 56 Resp: 203

Ion Ratio Lower Upper

56 100

55 125.0 59.4 89.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

600

400

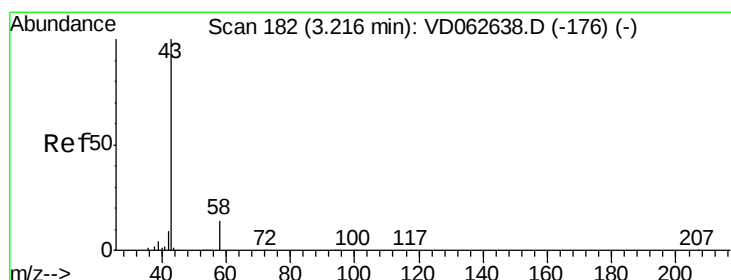
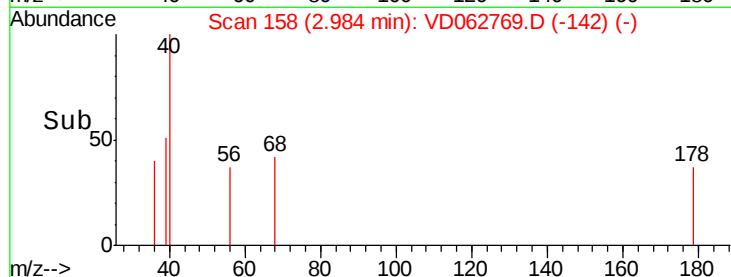
200

0

2.96 2.98 3.00

2.98

Time-->



#16

Acetone

Concen: 25.405 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD062769.D

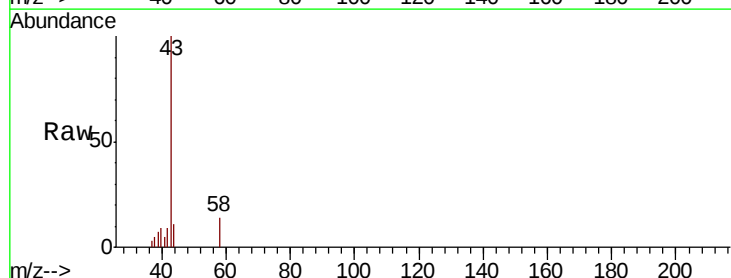
Acq: 19 Jun 2019 2:50

Tgt Ion: 43 Resp: 44177

Ion Ratio Lower Upper

43 100

58 14.2 10.8 16.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

15000

10000

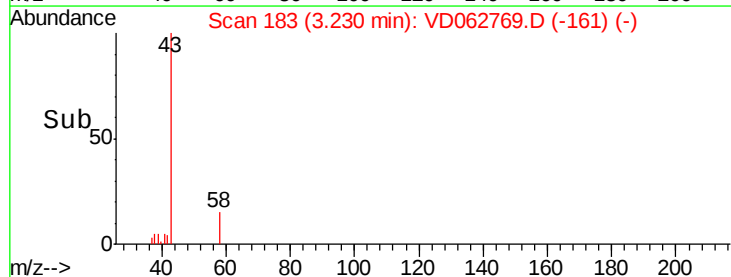
5000

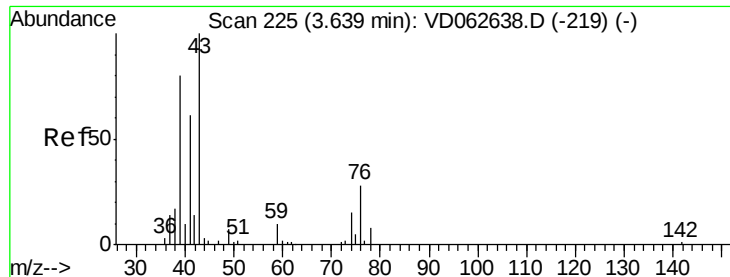
0

3.10 3.20 3.30

3.23

Time-->

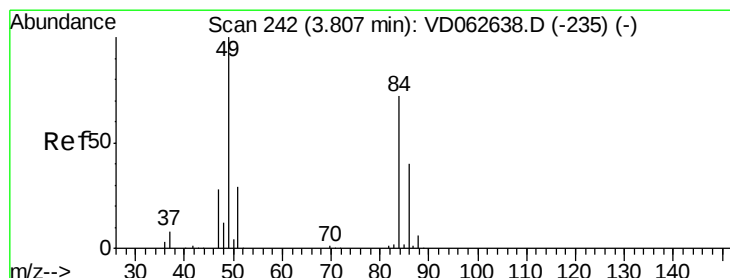
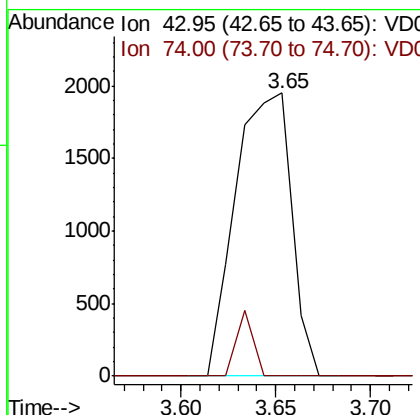
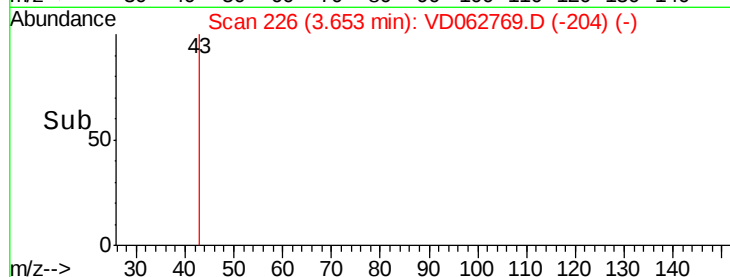
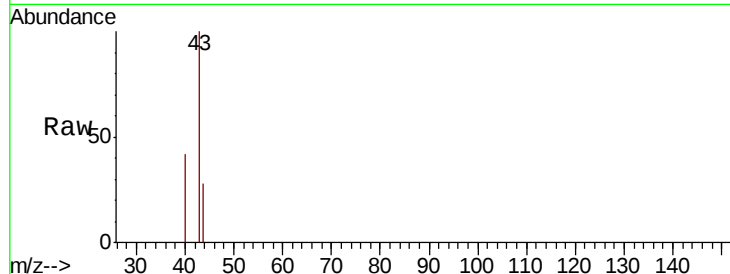




#18
Methvl Acetate
Concen: 1.395 ug/l
RT: 3.65 min Scan# 226
Delta R.T. 0.01 min
Lab File: VD062769.D
Acq: 19 Jun 2019 2:50

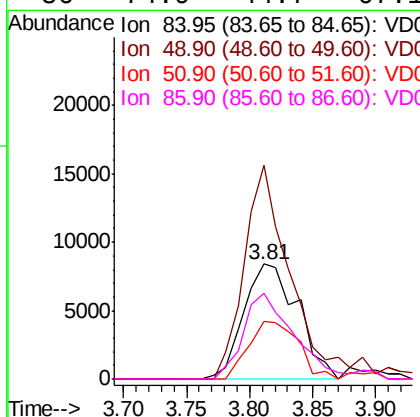
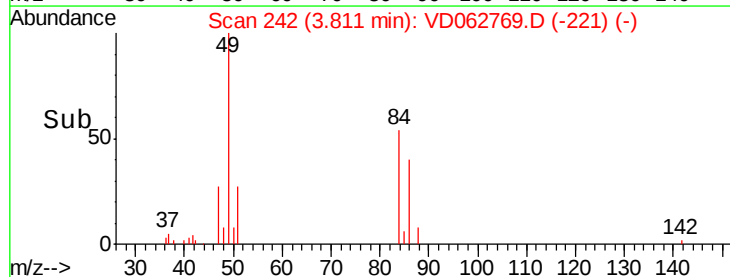
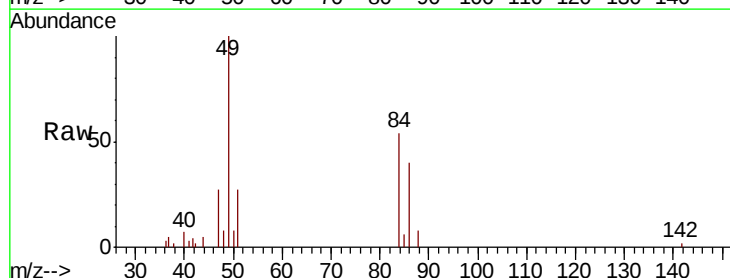
Instrument :
MSVOA_D
ClientSampleId :

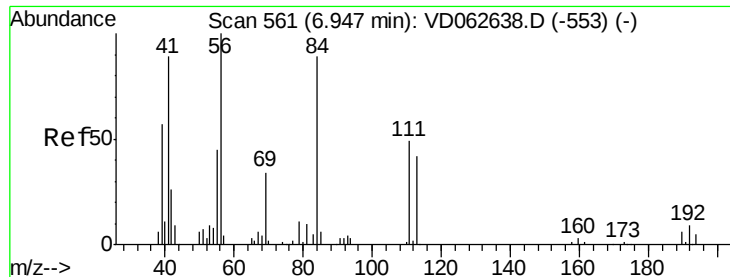
Tot Ion: 43 Resp: 3987
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#20
Methylene Chloride
Concen: 3.380 ug/l
RT: 3.81 min Scan# 242
Delta R.T. 0.00 min
Lab File: VD062769.D
Acq: 19 Jun 2019 2:50

Tgt Ion: 84 Resp: 24914
Ion Ratio Lower Upper
84 100
49 185.7 111.2 166.8#
51 50.0 31.9 47.9#
86 74.9 44.7 67.1#

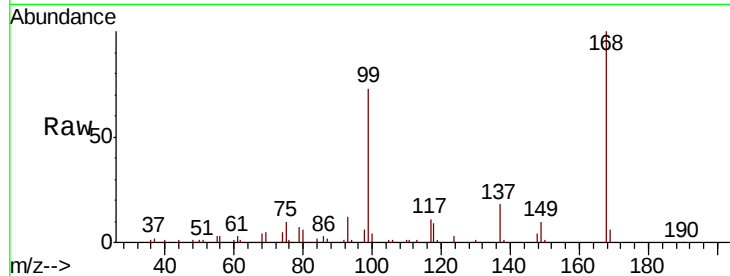




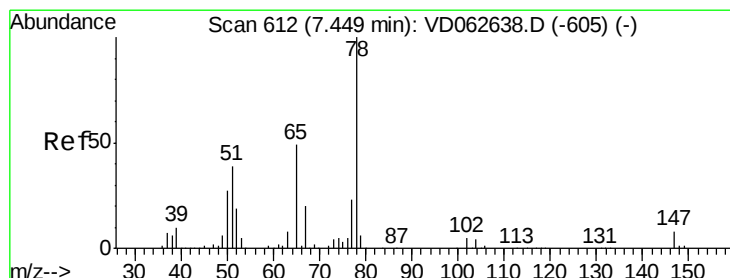
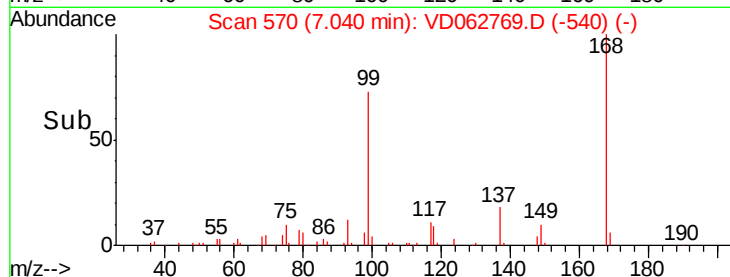
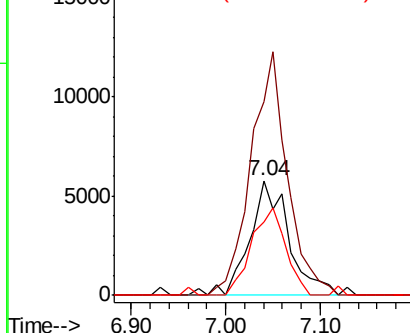
#31
Cyclohexane
Concen: 2.233 ug/l
RT: 7.04 min Scan# 570
Delta R.T. 0.09 min
Lab File: VD062769.D
Acq: 19 Jun 2019 2:50

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 16735
Ion Ratio Lower Upper
56 100
69 168.4 26.8 40.2#
84 64.3 73.9 110.9#

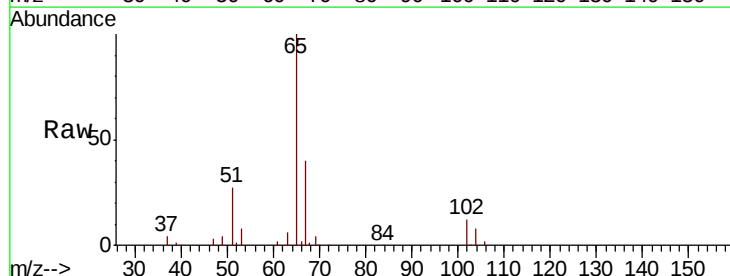


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

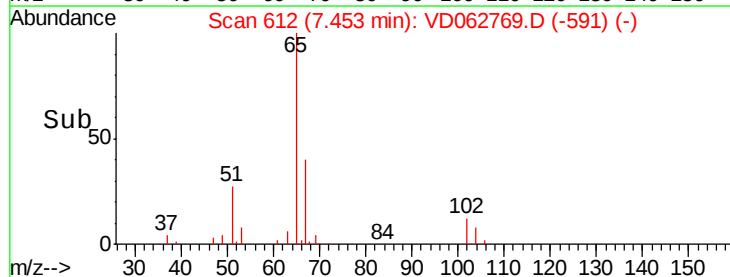
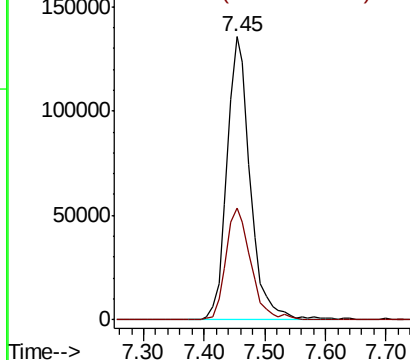


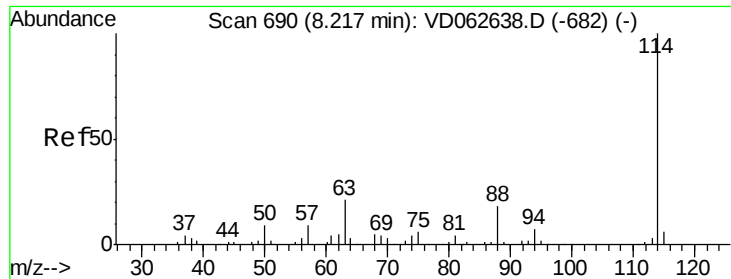
#33
1,2-Dichloroethane-d4
Concen: 38.093 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.00 min
Lab File: VD062769.D
Acq: 19 Jun 2019 2:50

Tgt Ion: 65 Resp: 361742
Ion Ratio Lower Upper
65 100
67 39.5 0.0 81.8



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. 0.00 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

ClientSampleId :

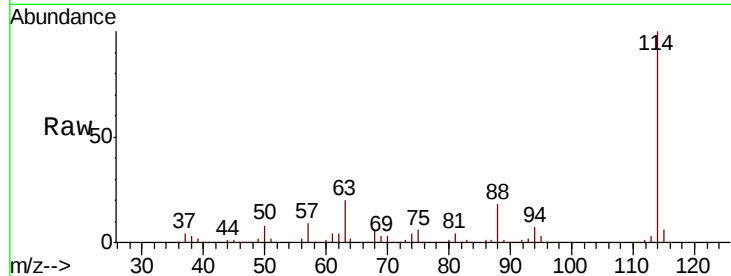
Tot Ion:114 Resp: 905738

Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.4

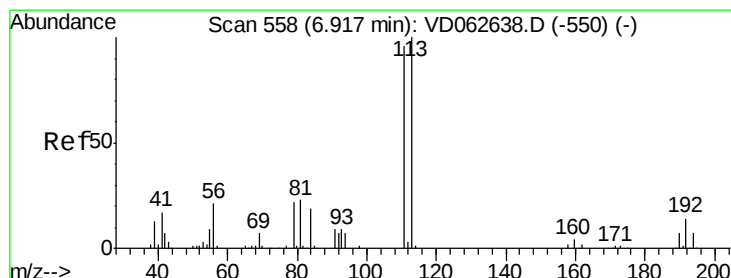
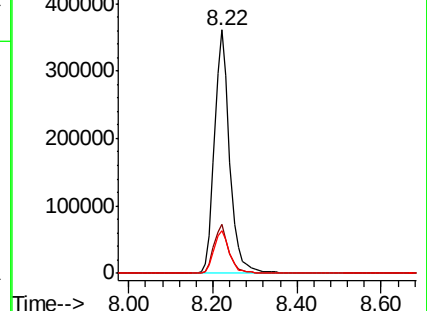
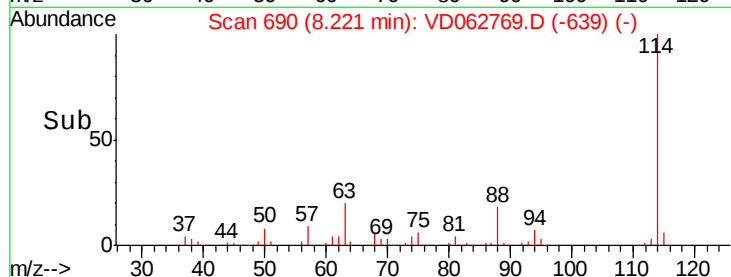
88 17.7 0.0 36.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 37.503 ug/l

RT: 6.93 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

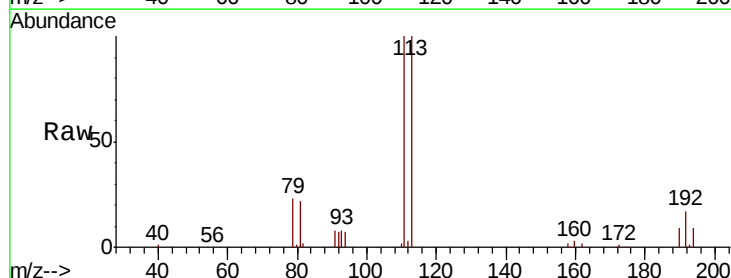
Tgt Ion:113 Resp: 358237

Ion Ratio Lower Upper

113 100

111 99.7 76.4 114.6

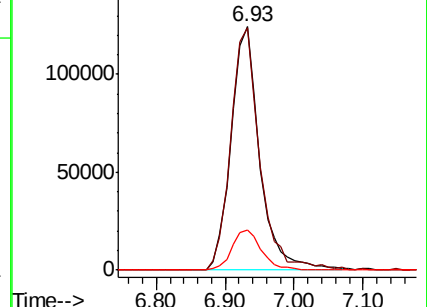
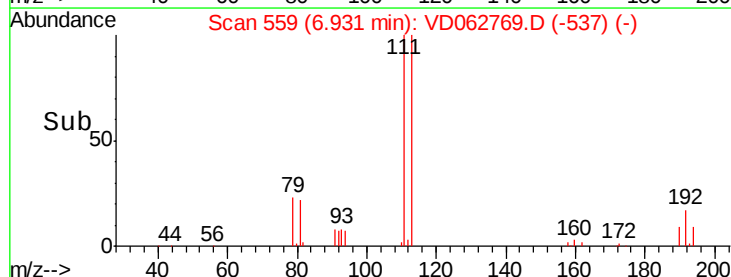
192 16.6 11.4 17.0

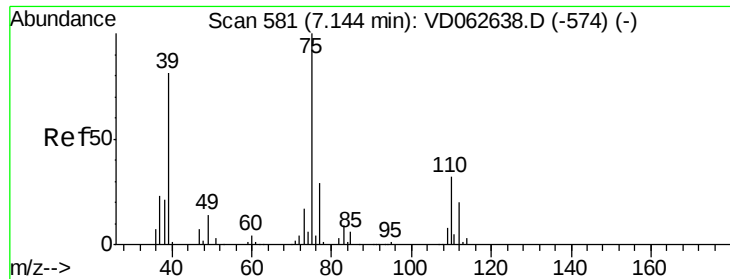


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.525 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.09 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

ClientSampled :

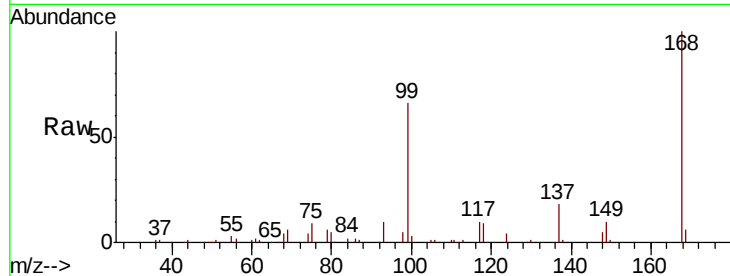
Tot Ion: 75 Resp: 57278

Ion Ratio Lower Upper

75 100

110 12.4 15.9 47.7#

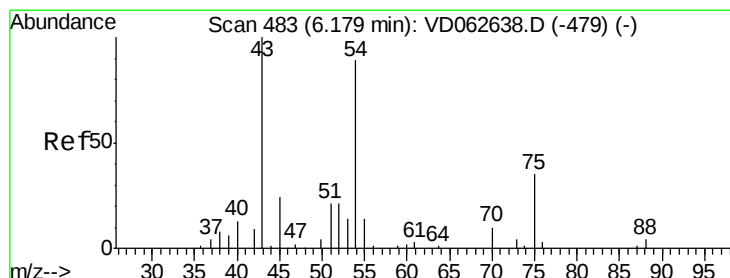
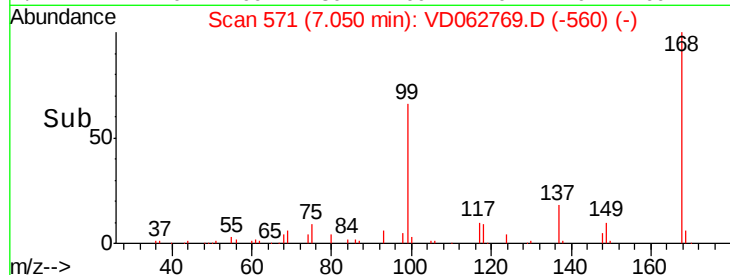
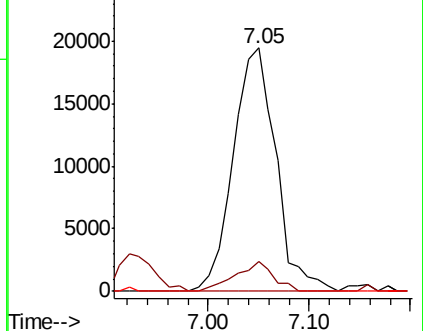
77 0.0 23.3 34.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.390 ug/l

RT: 6.15 min Scan# 480

Delta R.T. -0.03 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

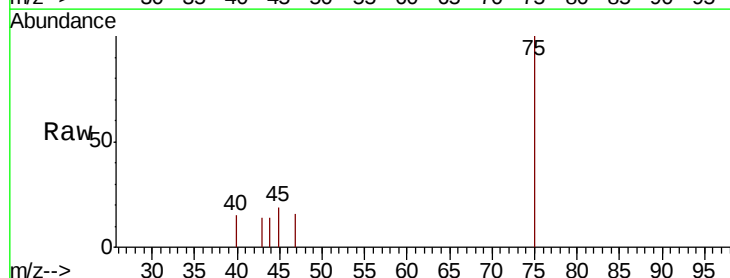
Tgt Ion: 43 Resp: 858

Ion Ratio Lower Upper

43 100

61 0.0 8.7 13.1#

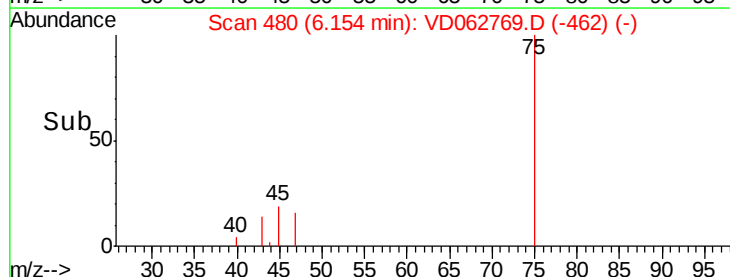
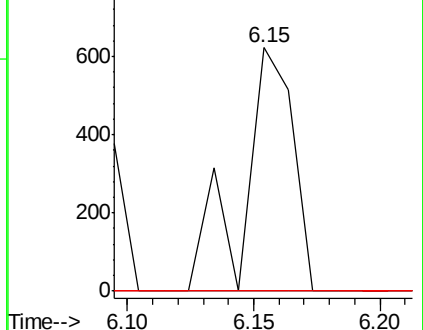
70 0.0 6.5 9.7#

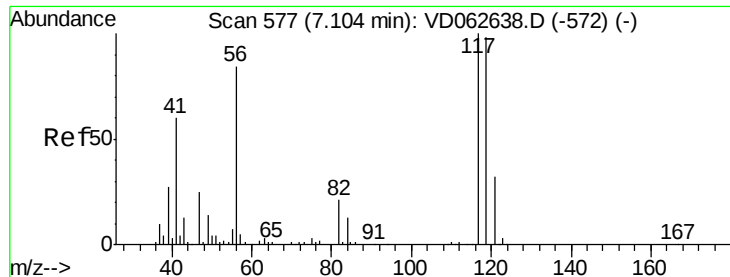


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

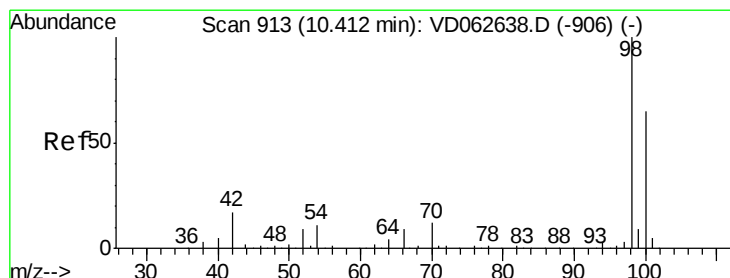
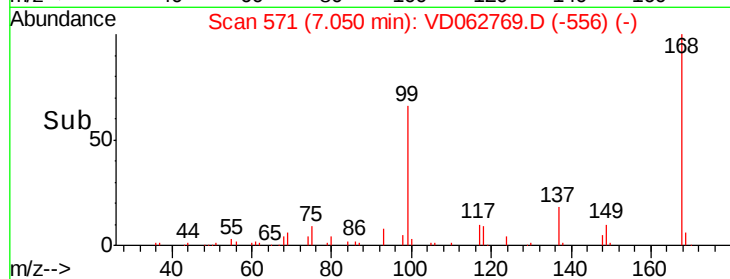
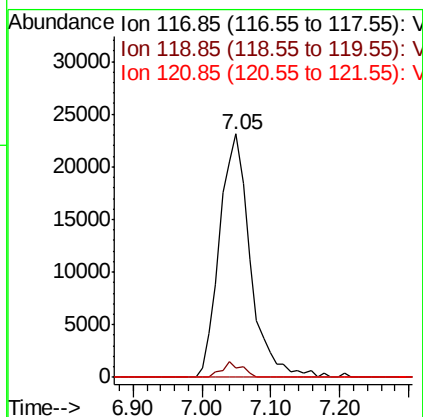
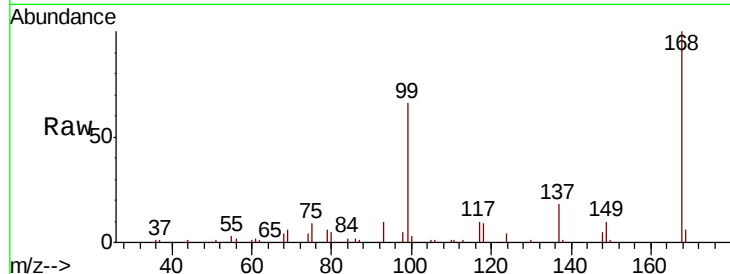




#38
Carbon Tetrachloride
Concen: 4.365 ug/l
RT: 7.05 min Scan# 571
Delta R.T. -0.05 min
Lab File: VD062769.D
Acq: 19 Jun 2019 2:50

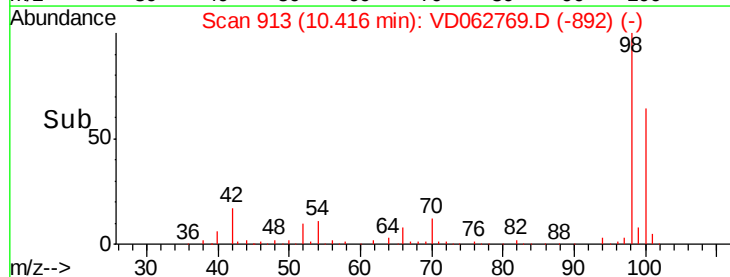
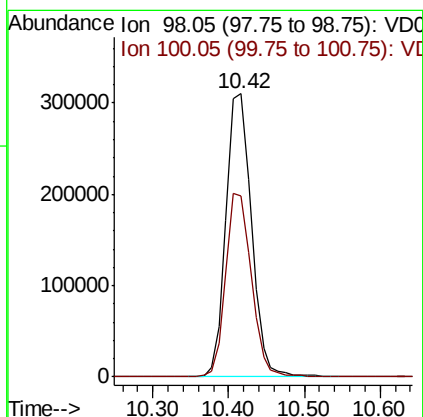
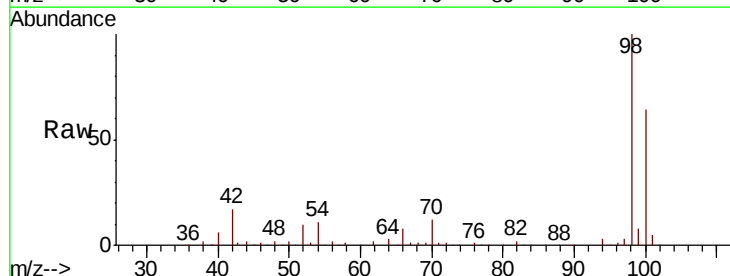
Instrument :
MSVOA_D
ClientSampleId :

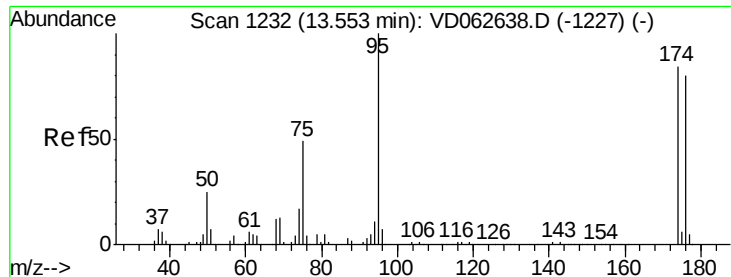
Tot Ion:117 Resp: 71526
Ion Ratio Lower Upper
117 100
119 4.0 73.5 110.3#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 36.161 ug/l
RT: 10.42 min Scan# 913
Delta R.T. 0.00 min
Lab File: VD062769.D
Acq: 19 Jun 2019 2:50

Tgt Ion: 98 Resp: 726628
Ion Ratio Lower Upper
98 100
100 64.0 52.1 78.1





#62

4-Bromofluorobenzene

Concen: 31.855 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

ClientSampleId :

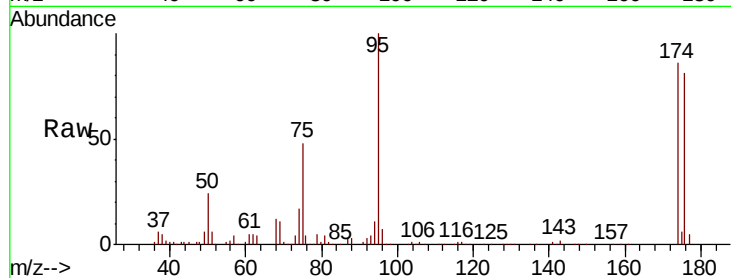
Tot Ion: 95 Resp: 298638

Ion Ratio Lower Upper

95 100

174 85.6 0.0 167.0

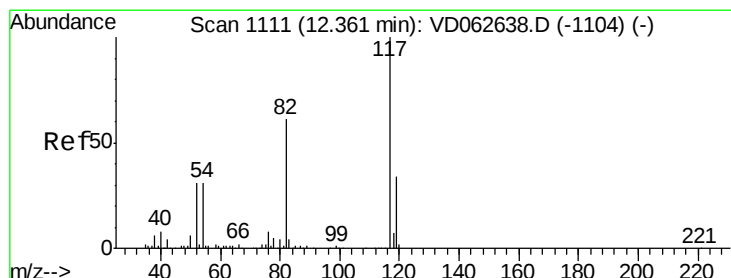
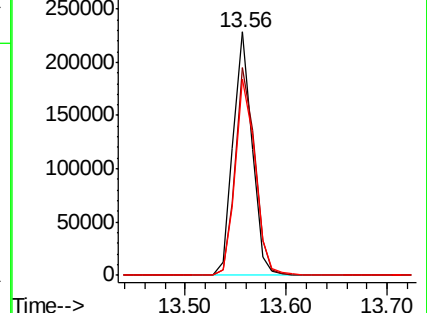
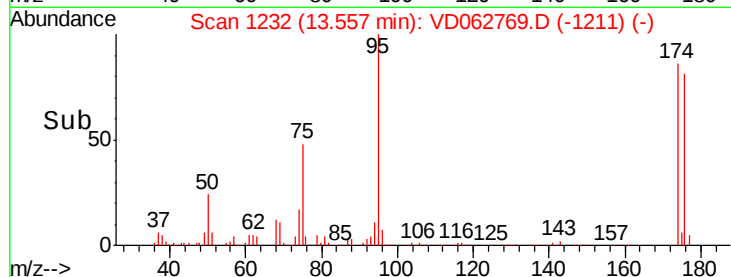
176 80.7 0.0 159.2



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1111

Delta R.T. 0.00 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

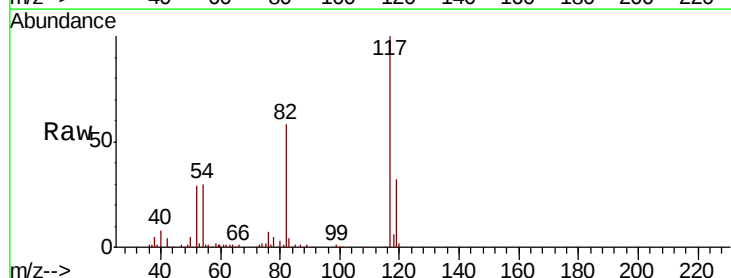
Tgt Ion: 117 Resp: 686146

Ion Ratio Lower Upper

117 100

82 58.3 48.7 73.1

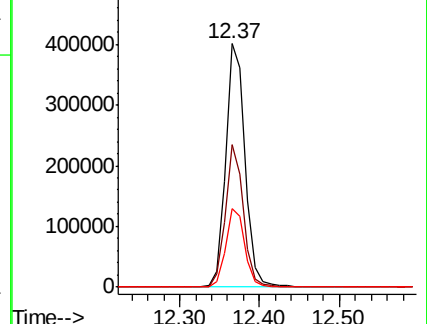
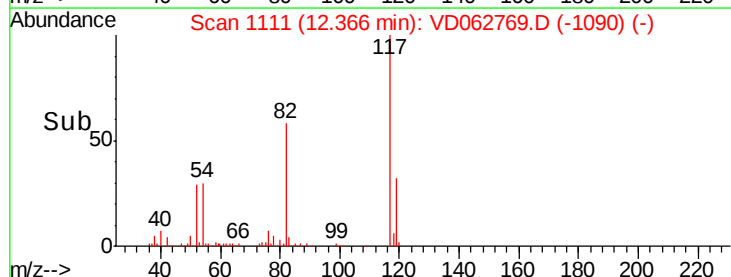
119 32.2 27.0 40.6

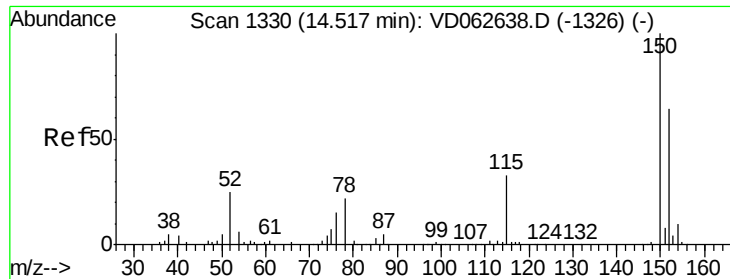


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

ClientSampleId :

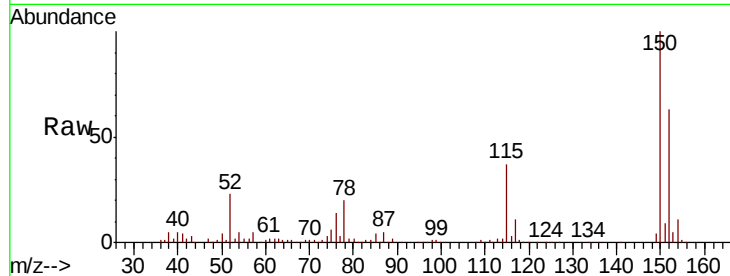
Tot Ion:152 Resp: 294971

Ion Ratio Lower Upper

152 100

115 58.7 30.1 90.5

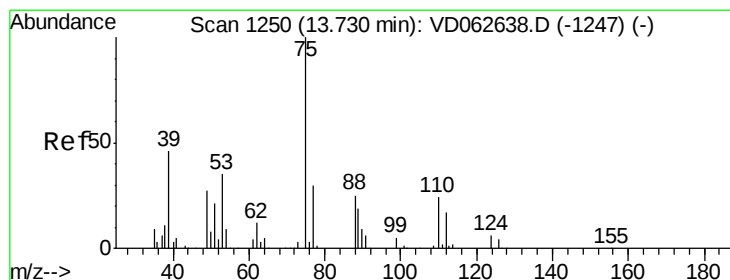
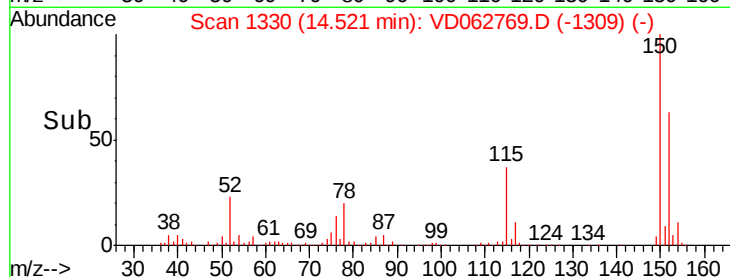
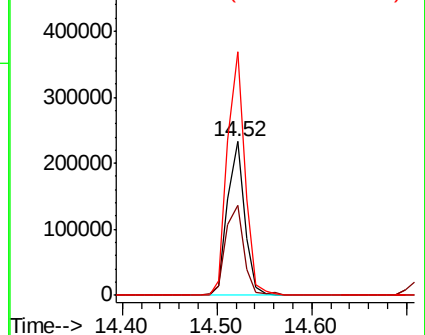
150 158.7 0.0 314.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.812 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. -0.17 min

Lab File: VD062769.D

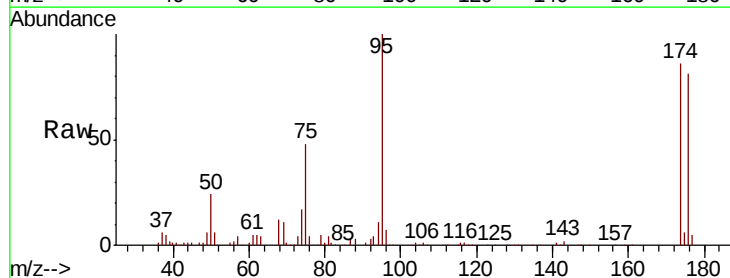
Acq: 19 Jun 2019 2:50

Tgt Ion: 75 Resp: 99236

Ion Ratio Lower Upper

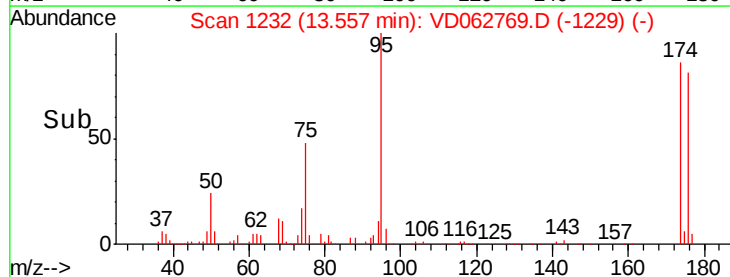
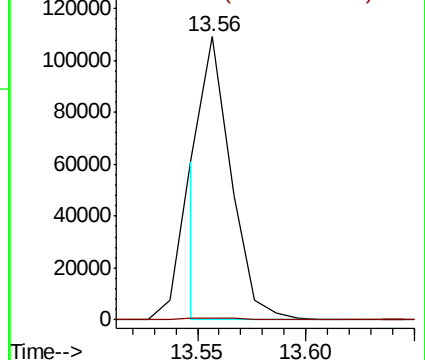
75 100

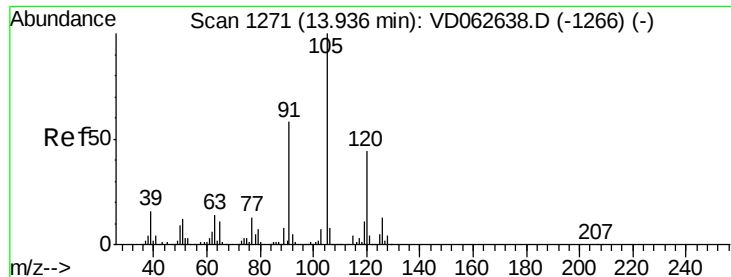
77 0.8 16.2 48.6#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 76.95 (76.65 to 77.65): V





#80

1,3,5-Trimethylbenzene

Concen: 2.064 ug/l

RT: 13.93 min Scan# 1270

Delta R.T. -0.01 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

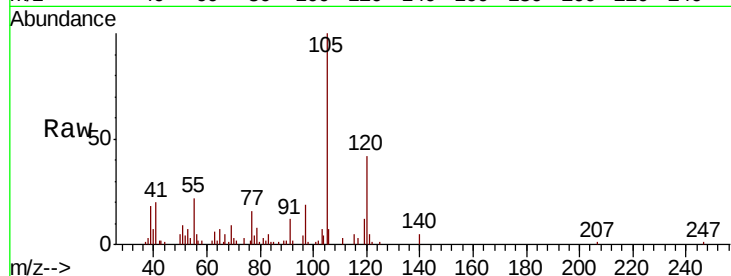
ClientSampleId :

Tot Ion:105 Resp: 37924

Ion Ratio Lower Upper

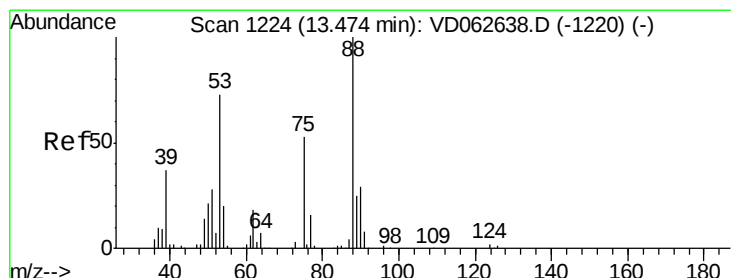
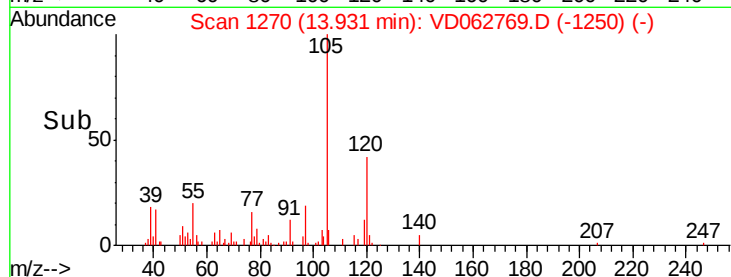
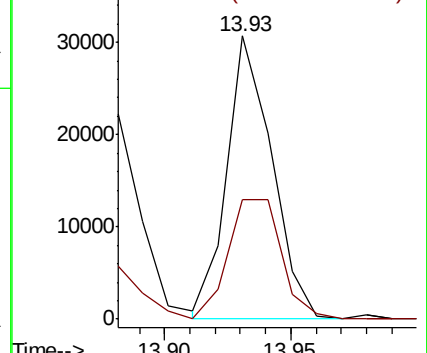
105 100

120 42.4 22.1 66.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#81

trans-1,4-Dichloro-2-butene

Concen: 112.461 ug/l

RT: 13.56 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

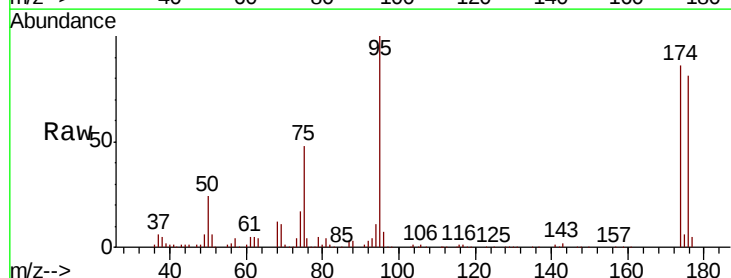
Tgt Ion: 75 Resp: 139646

Ion Ratio Lower Upper

75 100

53 0.0 109.4 164.2#

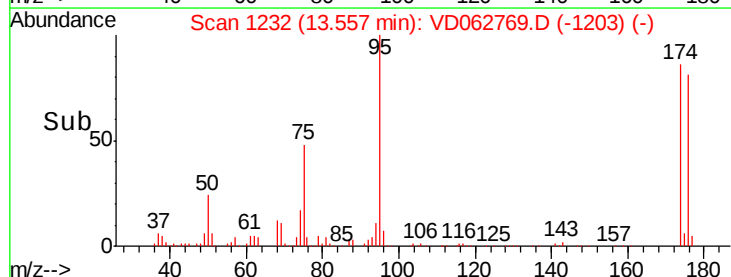
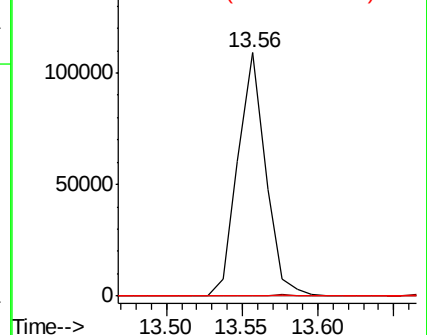
89 0.0 37.0 55.6#

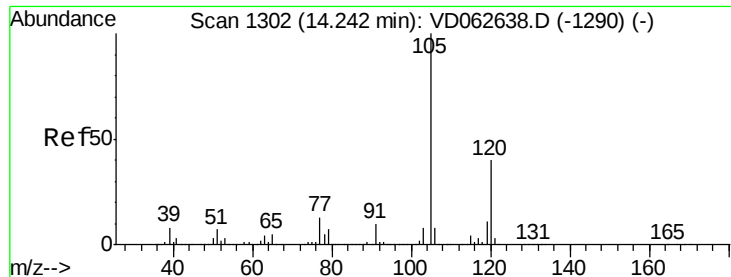


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

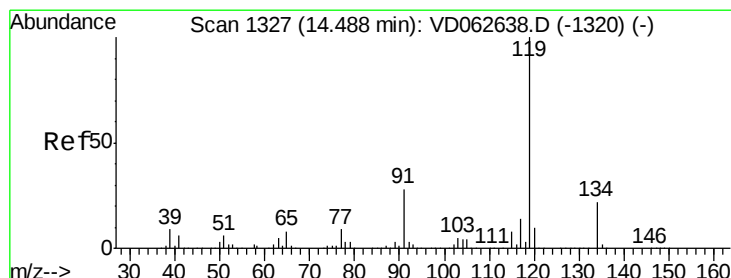
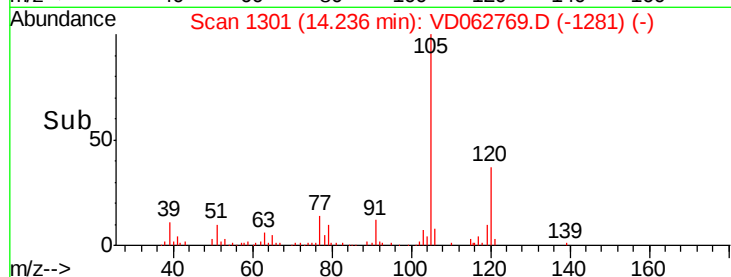
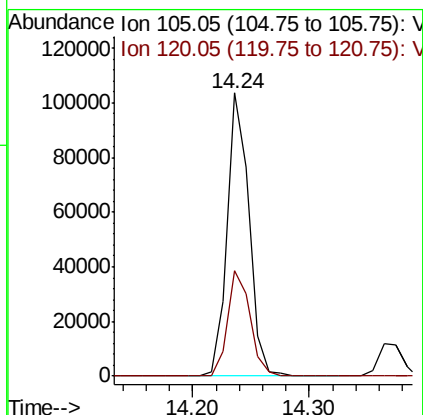
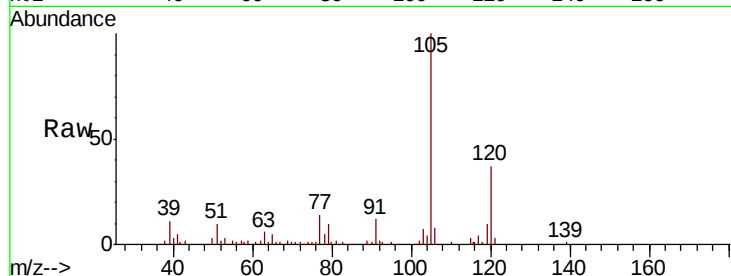




#84
 1,2,4-Trimethylbenzene
 Concen: 7.390 ug/l
 RT: 14.24 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: VD062769.D
 Acq: 19 Jun 2019 2:50

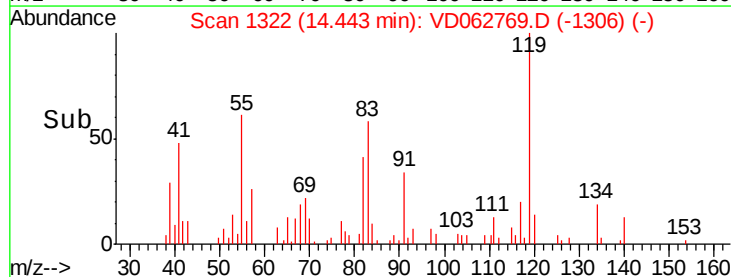
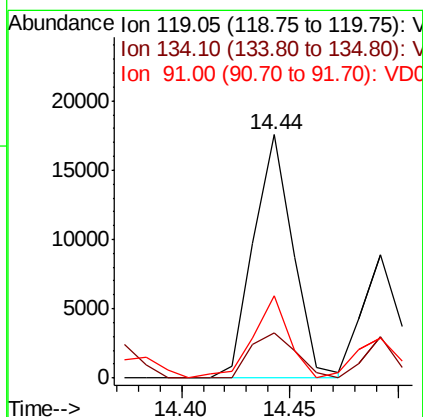
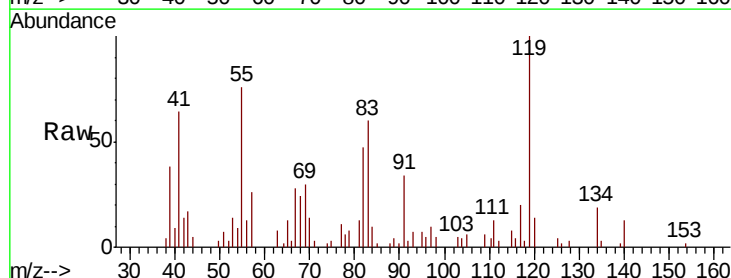
Instrument :
 MSVOA_D
 ClientSampled :

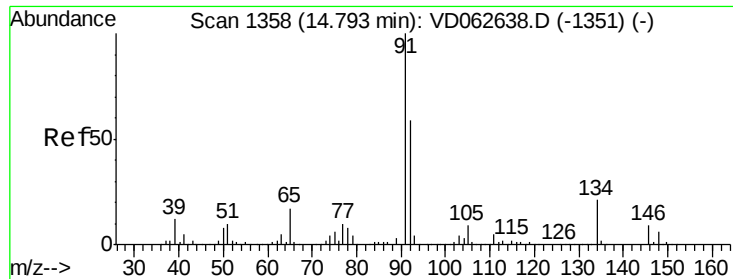
Tot Ion:105 Resp: 134451
 Ion Ratio Lower Upper
 105 100
 120 37.2 20.3 60.8



#86
 p-Isopropyltoluene
 Concen: 1.089 ug/l
 RT: 14.44 min Scan# 1322
 Delta R.T. -0.05 min
 Lab File: VD062769.D
 Acq: 19 Jun 2019 2:50

Tgt Ion:119 Resp: 22532
 Ion Ratio Lower Upper
 119 100
 134 18.8 10.9 32.6
 91 33.6 13.9 41.6





#89

n-Butylbenzene

Concen: 2.592 ug/l

RT: 14.80 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

ClientSampled :

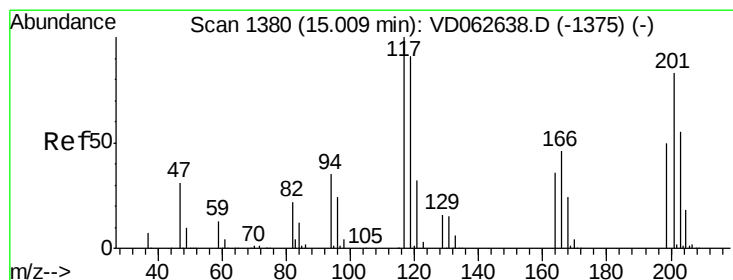
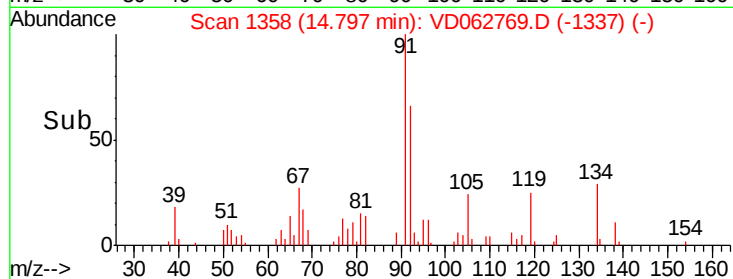
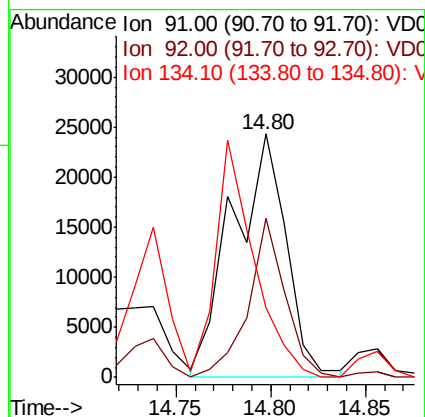
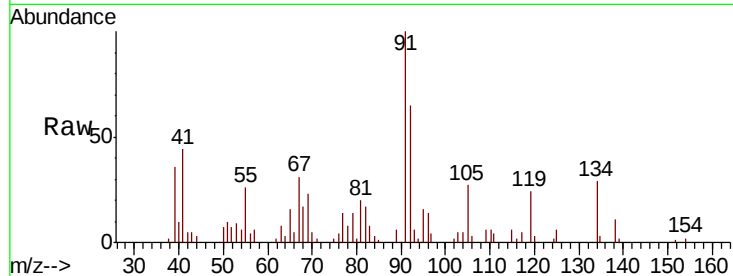
Tot Ion: 91 Resp: 48243

Ion Ratio Lower Upper

91 100

92 65.2 29.4 88.3

134 28.7 10.4 31.2



#90

Hexachloroethane

Concen: 1.169 ug/l

RT: 14.98 min Scan# 1377

Delta R.T. -0.03 min

Lab File: VD062769.D

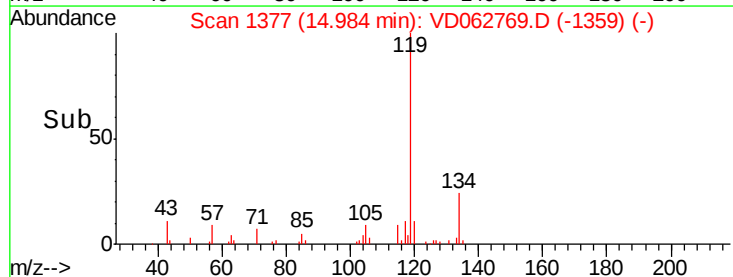
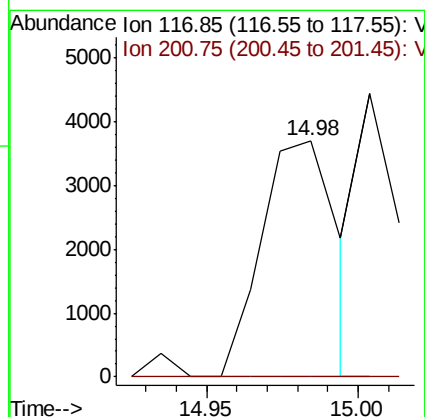
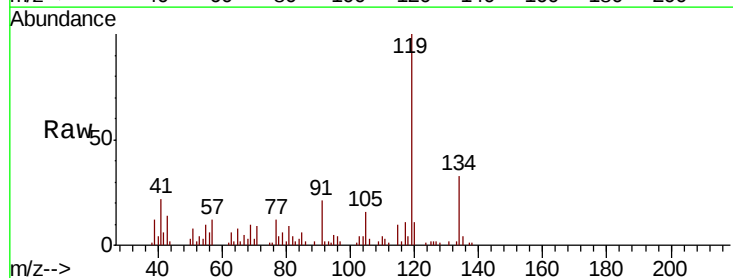
Acq: 19 Jun 2019 2:50

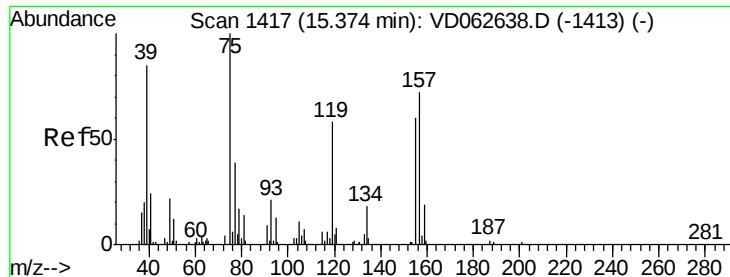
Tgt Ion: 117 Resp: 6388

Ion Ratio Lower Upper

117 100

201 0.0 41.5 124.6#

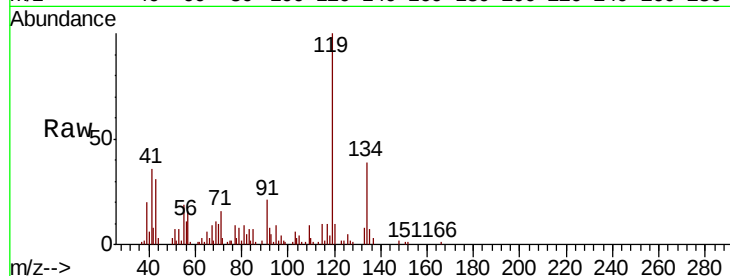




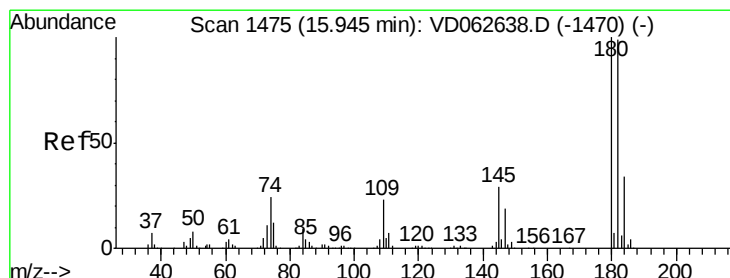
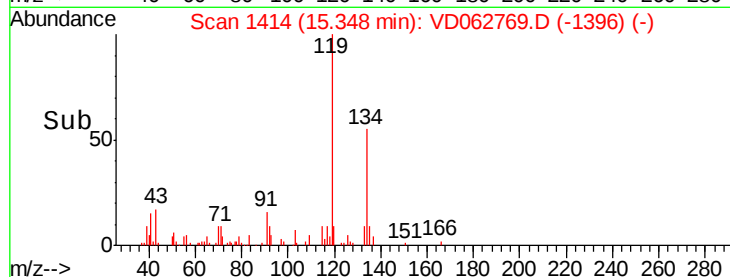
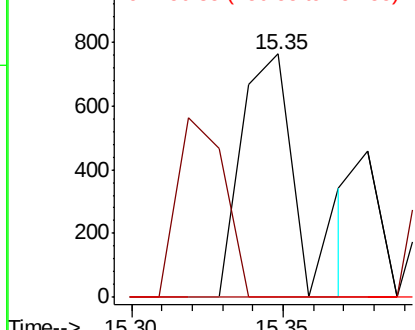
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.379 ug/l
 RT: 15.35 min Scan# 1414
 Delta R.T. -0.03 min
 Lab File: VD062769.D
 Acq: 19 Jun 2019 2:50

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 75 Resp: 1048
 Ion Ratio Lower Upper
 75 100
 155 0.0 30.1 90.5#
 157 0.0 35.9 107.8#

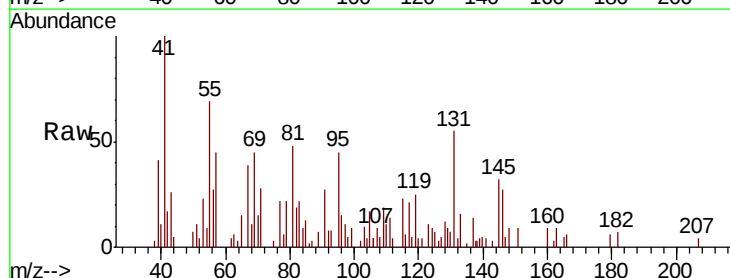


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

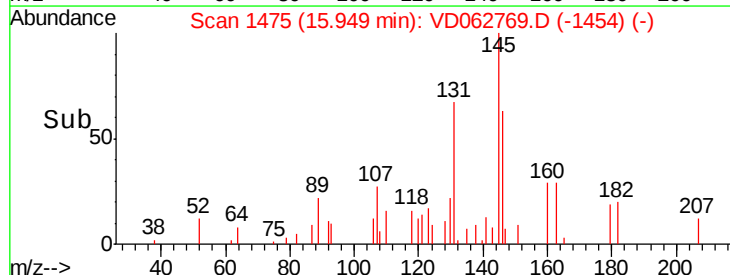
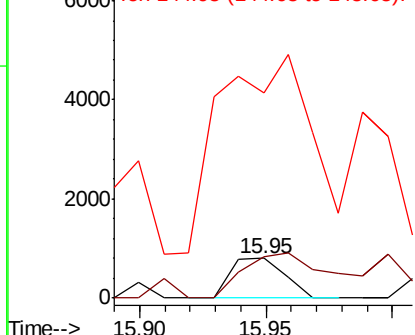


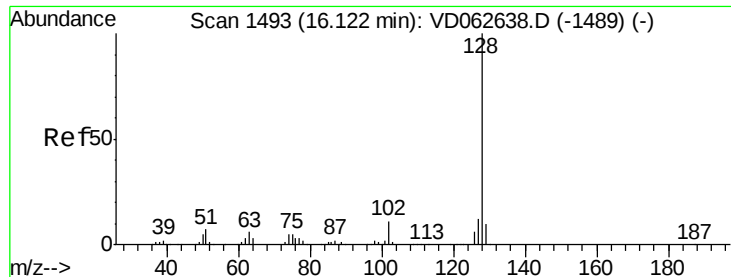
#93
 1,2,4-Trichlorobenzene
 Concen: 3.713 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD062769.D
 Acq: 19 Jun 2019 2:50

Tgt Ion: 180 Resp: 1185
 Ion Ratio Lower Upper
 180 100
 182 105.4 49.4 148.2
 145 518.1 14.5 43.6#



Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V





#95

Naphthalene

Concen: 5.130 ug/l

RT: 16.13 min Scan# 1493

Delta R.T. 0.01 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

Instrument :

MSVOA_D

ClientSampleId :

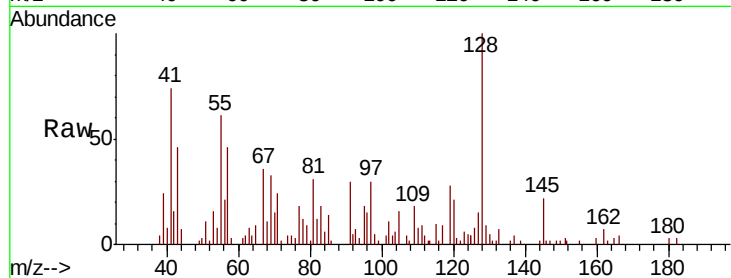
Tot Ion:128 Resp: 19315

Ion Ratio Lower Upper

128 100

127 15.1 9.7 14.5#

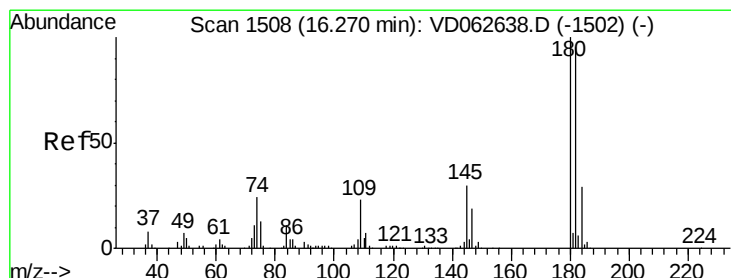
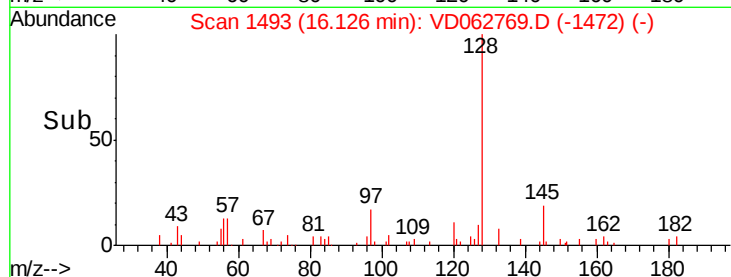
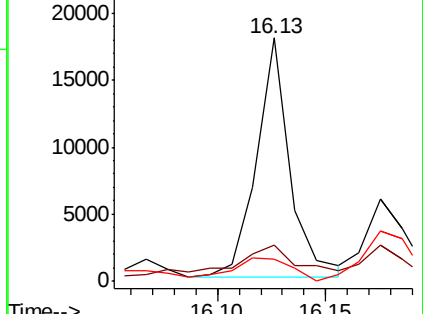
129 9.0 8.1 12.1



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: 1.277 ug/l

RT: 16.29 min Scan# 1510

Delta R.T. 0.02 min

Lab File: VD062769.D

Acq: 19 Jun 2019 2:50

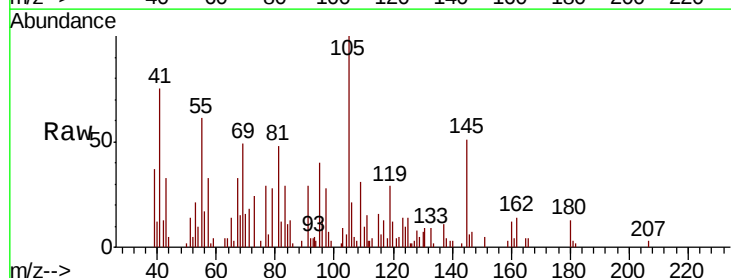
Tgt Ion:180 Resp: 6583

Ion Ratio Lower Upper

180 100

182 18.6 47.7 143.1#

145 403.7 15.0 45.0#



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

