

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD073019\
 Data File : VD063241.D
 Acq On : 30 Jul 2019 14:58
 Operator : VA/AP
 Sample : K4043-15
 Misc : 5.04g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB203-GW-418-420

Quant Time: Jul 31 04:55:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:04:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	25089	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	43321	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	37914	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	17523	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	18045	64.82	ug/l	0.00
Spiked Amount			Recovery	=	129.64%	
35) Dibromofluoromethane	6.91	113	13677	36.98	ug/l	0.00
Spiked Amount			Recovery	=	73.96%	
50) Toluene-d8	10.40	98	29515	35.66	ug/l	0.00
Spiked Amount			Recovery	=	71.32%	
62) 4-Bromofluorobenzene	13.55	95	13300	35.26	ug/l	0.00
Spiked Amount			Recovery	=	70.52%	

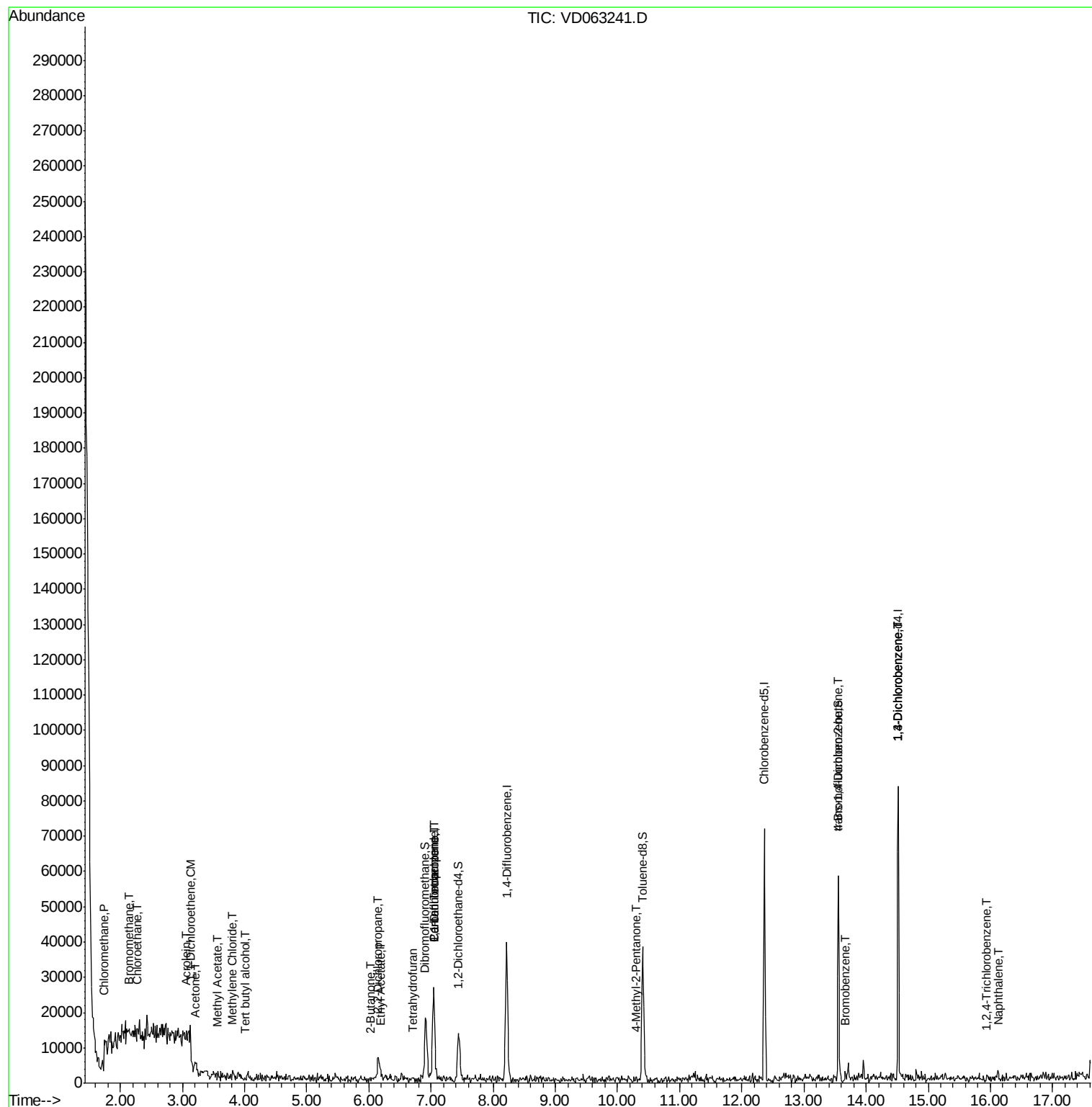
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.75	50	843	3.538	ug/l #	46
5) Bromomethane	2.14	94	787	6.326	ug/l #	12
6) Chloroethane	2.26	64	203	1.783	ug/l #	1
11) Tert butyl alcohol	4.01	59	214	17.517	ug/l #	69
12) 1,1-Dichloroethene	3.13	96	533	2.739	ug/l #	1
13) Acrolein	3.05	56	200	17.010	ug/l #	15
16) Acetone	3.21	43	2749	50.682	ug/l #	62
18) Methyl Acetate	3.57	43	232	2.227	ug/l #	60
20) Methylene Chloride	3.82	84	223	1.017	ug/l #	66
25) 2-Butanone	6.02	43	194	3.564	ug/l #	56
26) 2,2-Dichloropropane	6.14	77	867	2.127	ug/l #	56
29) Tetrahydrofuran	6.70	42	198	7.683	ug/l #	33
36) 1,1-Dichloropropene	7.05	75	1885	4.768	ug/l #	44
37) Ethyl Acetate	6.20	43	496	2.792	ug/l #	70
38) Carbon Tetrachloride	7.04	117	1757	2.952	ug/l #	11
51) 4-Methyl-2-Pentanone	10.30	43	617	3.999	ug/l #	42
77) Bromobenzene	13.66	156	434	1.385	ug/l #	12
81) trans-1,4-Dichloro-2-buten	13.55	75	5692	97.392	ug/l #	3
87) 1,3-Dichlorobenzene	14.53	146	577	1.040	ug/l #	25
88) 1,4-Dichlorobenzene	14.53	146	577	1.028	ug/l #	24
93) 1,2,4-Trichlorobenzene	15.93	180	762	1.987	ug/l #	58
95) Naphthalene	16.12	128	890	1.642	ug/l #	70

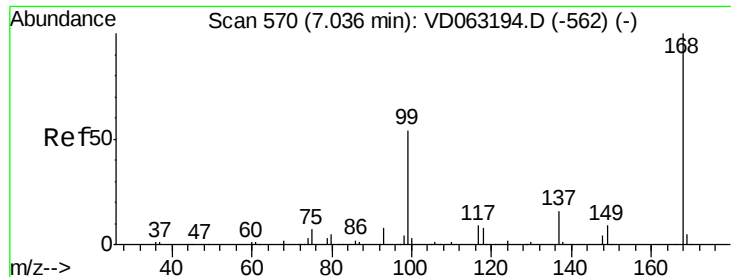
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD073019\
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Quant Time: Jul 31 04:55:32 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D072919S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 30 03:04:50 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: VD063241.D

Acq: 30 Jul 2019 14:58

Instrument :

MSVOA_D

ClientSampleId :

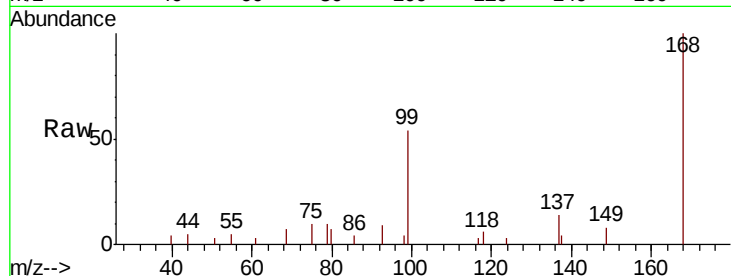
BP-VPB203-GW-418-420

Tot Ion:168 Resp: 25089

Ion Ratio Lower Upper

168 100

99 54.2 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

12000

10000

8000

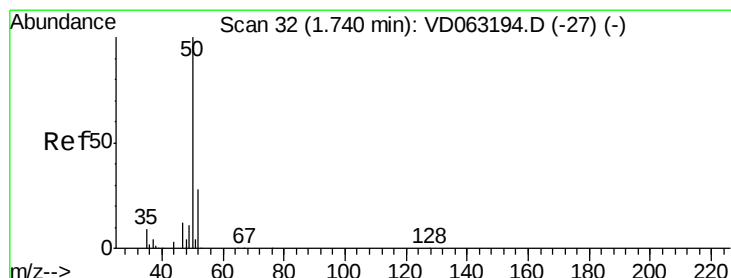
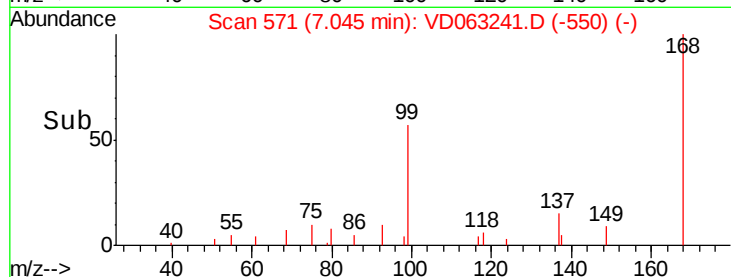
6000

4000

2000

0

Time-->



#3

Chloromethane

Concen: 3.538 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063241.D

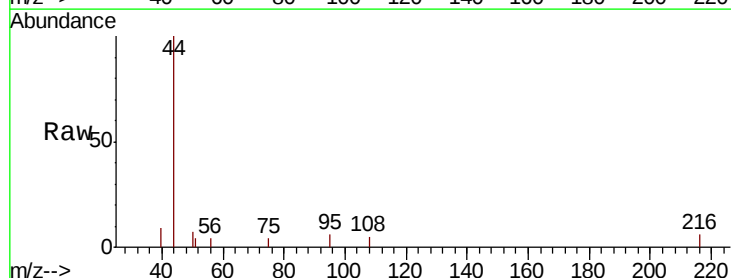
Acq: 30 Jul 2019 14:58

Tgt Ion: 50 Resp: 843

Ion Ratio Lower Upper

50 100

52 0.0 22.6 34.0#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.75

600

500

400

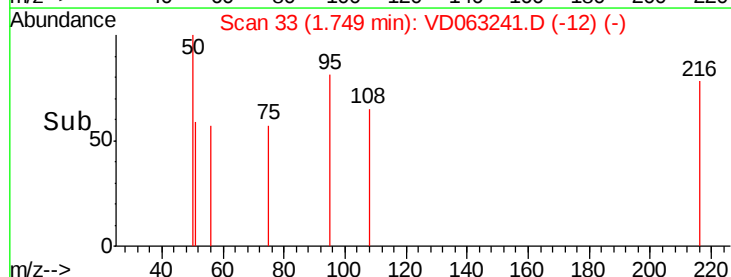
300

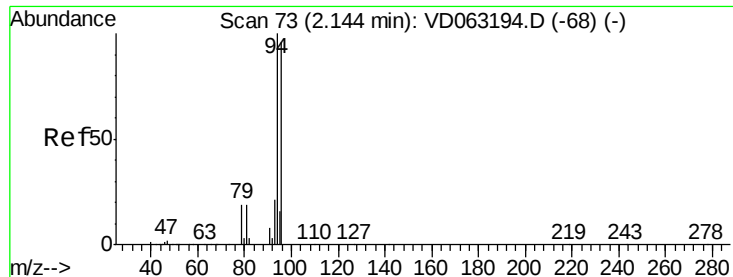
200

100

0

Time-->





#5

Bromomethane

Concen: 6.326 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.00 min

Lab File: VD063241.D

Acq: 30 Jul 2019 14:58

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB203-GW-418-420

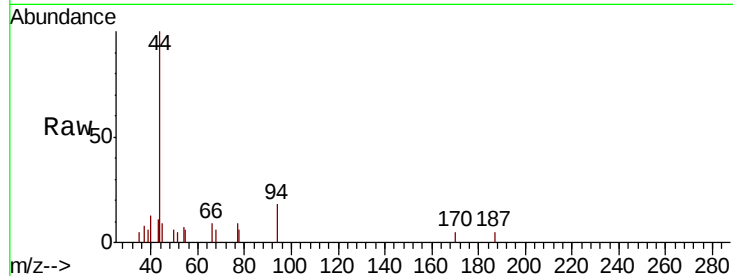
Tot Ion: 94 Resp: 787

Ion Ratio Lower Upper

94 100

96 0.0 76.4 114.6#

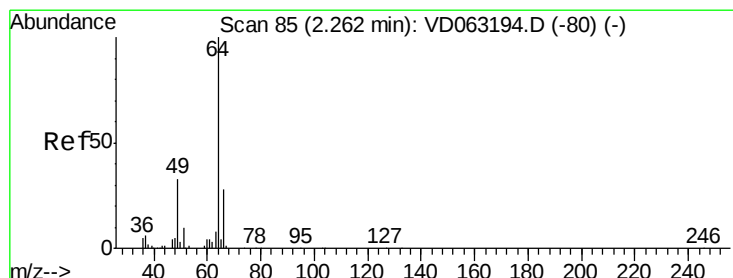
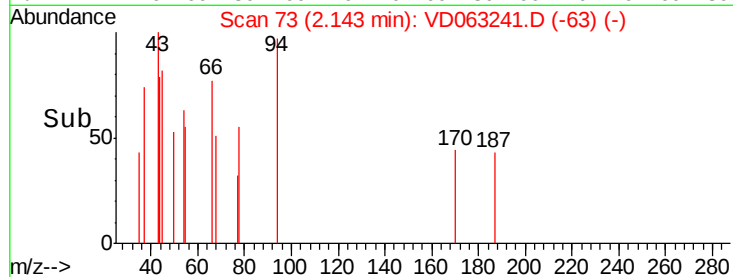
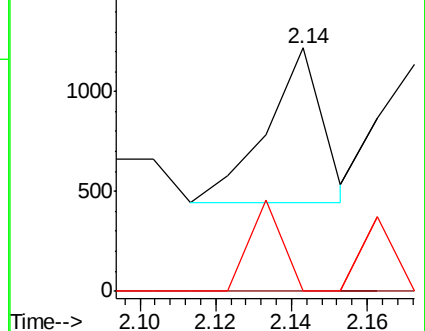
93 0.0 17.3 25.9#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 1.783 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.00 min

Lab File: VD063241.D

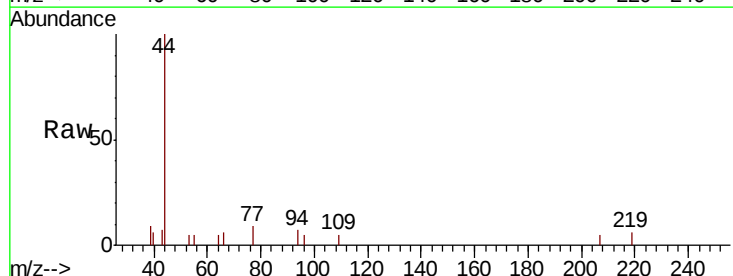
Acq: 30 Jul 2019 14:58

Tgt Ion: 64 Resp: 203

Ion Ratio Lower Upper

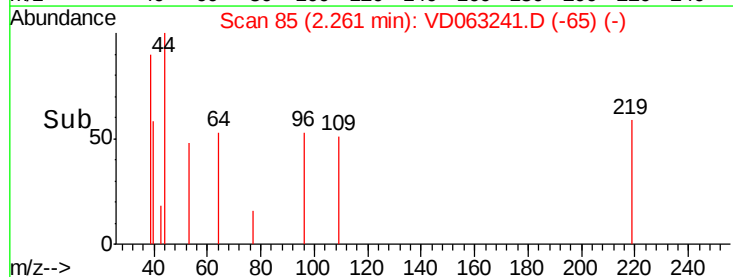
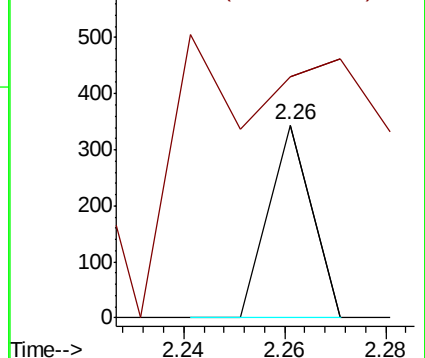
64 100

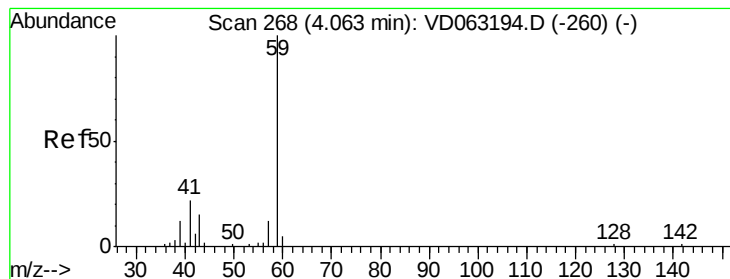
66 125.3 22.2 33.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



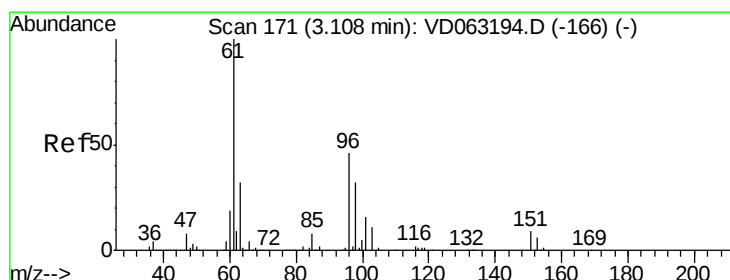
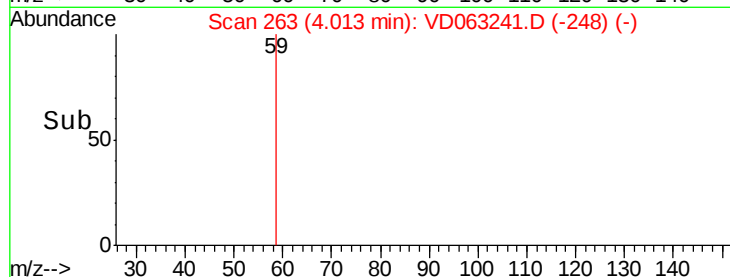
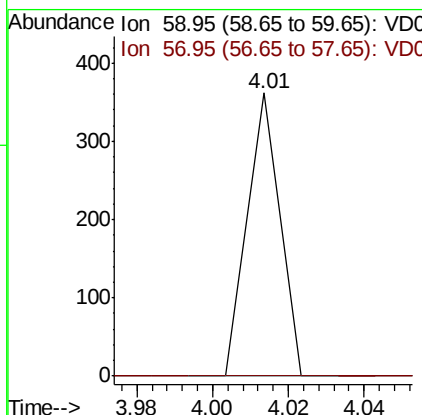
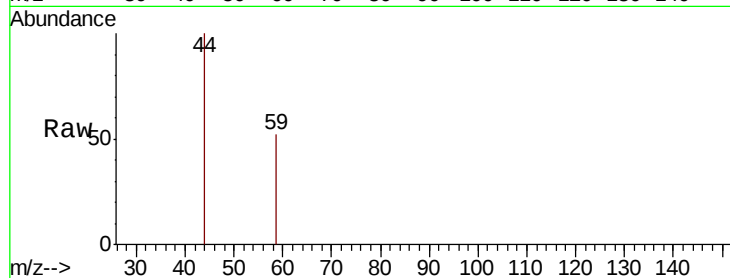


#11

Tert butyl alcohol
 Concen: 17.517 ug/l
 RT: 4.01 min Scan# 263
 Delta R.T. -0.05 min
 Lab File: VD063241.D
 Acq: 30 Jul 2019 14:58

Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB203-GW-418-420

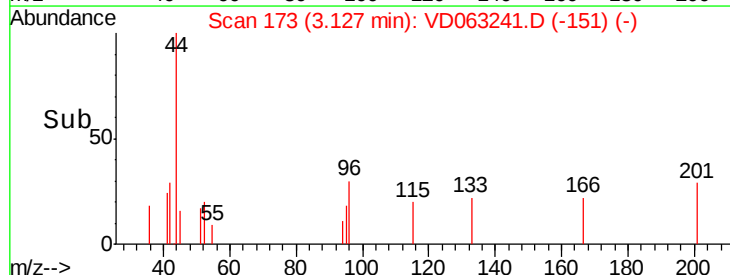
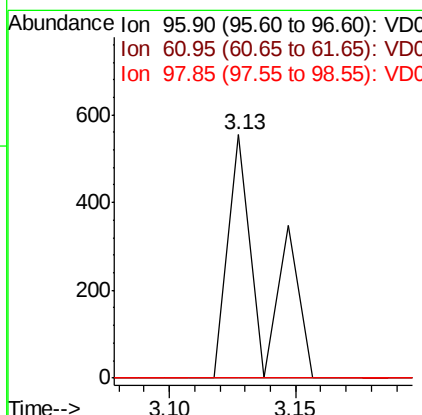
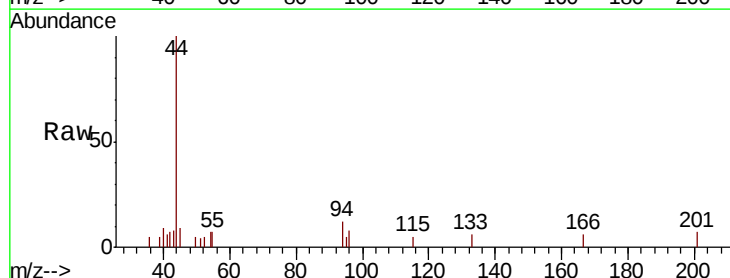
Tot Ion: 59 Resp: 214
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.6 14.4#

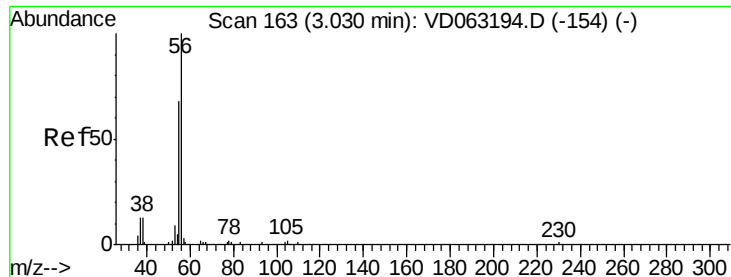


#12

1,1-Dichloroethene
 Concen: 2.739 ug/l
 RT: 3.13 min Scan# 173
 Delta R.T. 0.02 min
 Lab File: VD063241.D
 Acq: 30 Jul 2019 14:58

Tgt Ion: 96 Resp: 533
 Ion Ratio Lower Upper
 96 100
 61 0.0 173.7 260.5#
 98 0.0 55.8 83.8#





#13

Acrolein

Concen: 17.010 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.02 min

Lab File: VD063241.D

Acq: 30 Jul 2019 14:58

Instrument :

MSVOA_D

ClientSampleId :

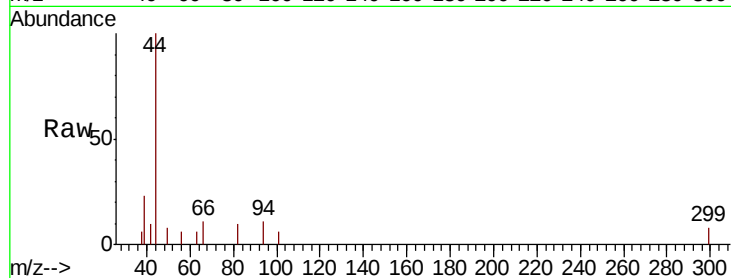
BP-VPB203-GW-418-420

Tot Ion: 56 Resp: 200

Ion Ratio Lower Upper

56 100

55 0.0 55.3 82.9#



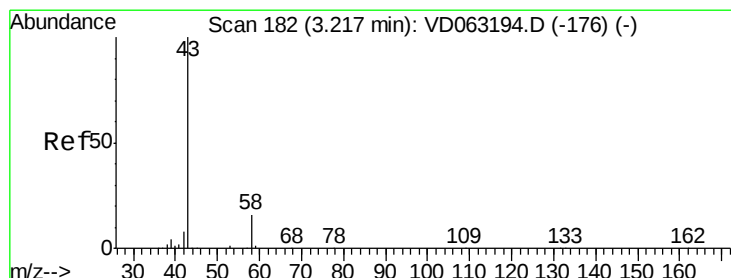
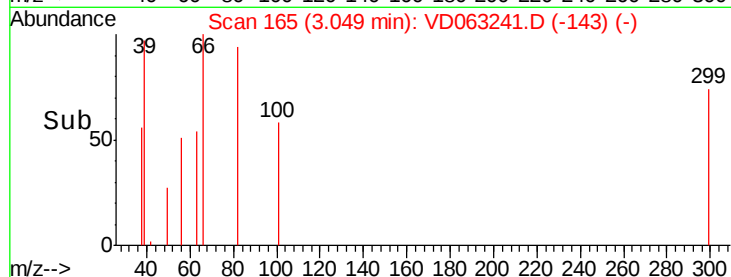
Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.05

3.04 3.06

Time-->



#16

Acetone

Concen: 50.682 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063241.D

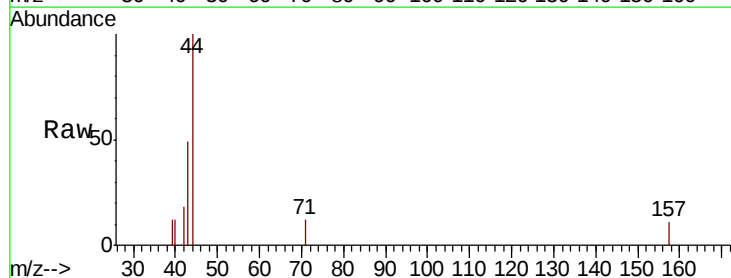
Acq: 30 Jul 2019 14:58

Tgt Ion: 43 Resp: 2749

Ion Ratio Lower Upper

43 100

58 0.0 13.0 19.4#



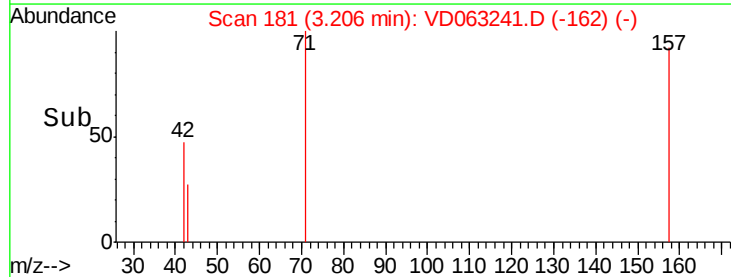
Abundance Ion 42.95 (42.65 to 43.65): VDC

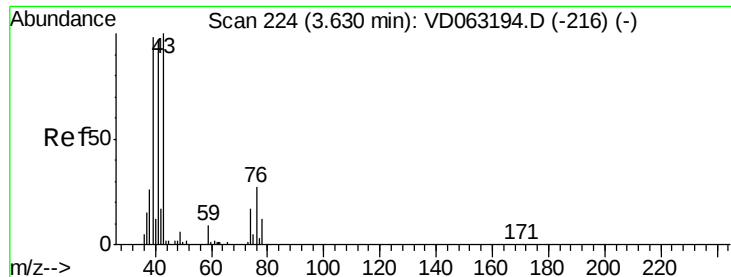
Ion 57.95 (57.65 to 58.65): VDC

3.21

3.15 3.20 3.25 3.30

Time-->

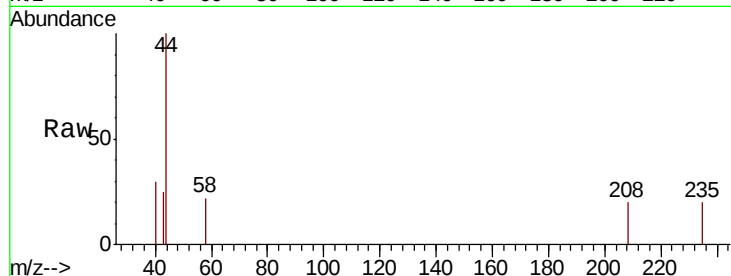




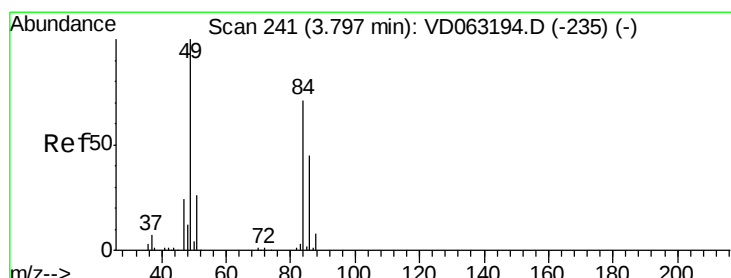
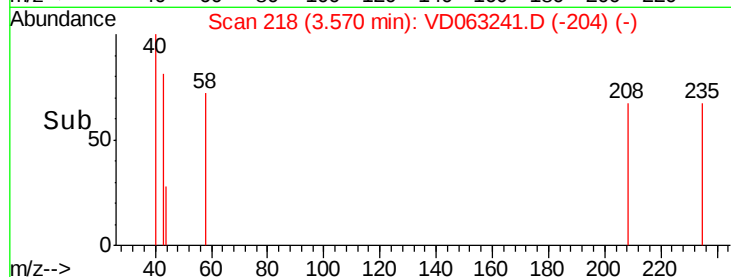
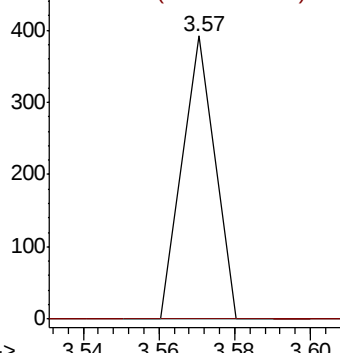
#18
Methyl Acetate
Concen: 2.227 ug/l
RT: 3.57 min Scan# 218
Delta R.T. -0.06 min
Lab File: VD063241.D
Acq: 30 Jul 2019 14:58

Instrument :
MSVOA_D
ClientSampleId :
BP-VPB203-GW-418-420

Tot Ion: 43 Resp: 232
Ion Ratio Lower Upper
43 100
74 0.0 13.8 20.8#

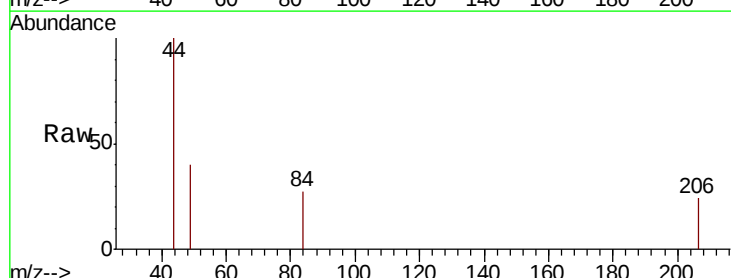


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 74.00 (73.70 to 74.70): VDC

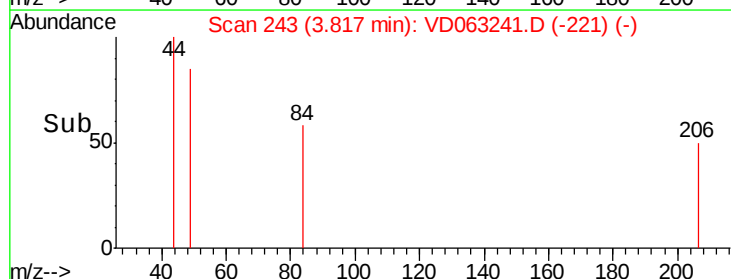
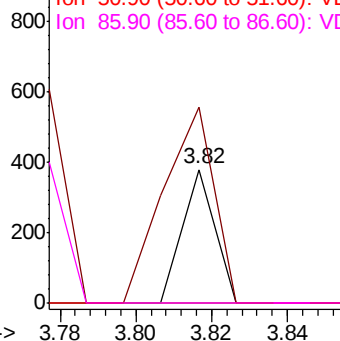


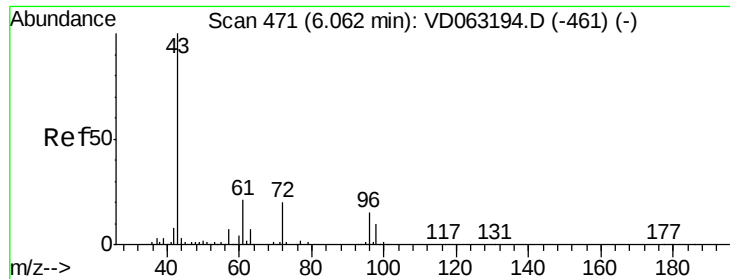
#20
Methylene Chloride
Concen: 1.017 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD063241.D
Acq: 30 Jul 2019 14:58

Tgt Ion: 84 Resp: 223
Ion Ratio Lower Upper
84 100
49 147.4 112.5 168.7
51 0.0 29.6 44.4#
86 0.0 50.4 75.6#



Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 3.564 ug/l

RT: 6.02 min Scan# 467

Delta R.T. -0.04 min

Lab File: VD063241.D

Acq: 30 Jul 2019 14:58

Instrument :

MSVOA_D

ClientSampleId :

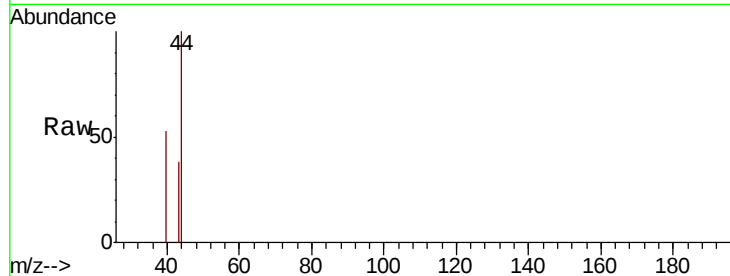
BP-VPB203-GW-418-420

Tot Ion: 43 Resp: 194

Ion Ratio Lower Upper

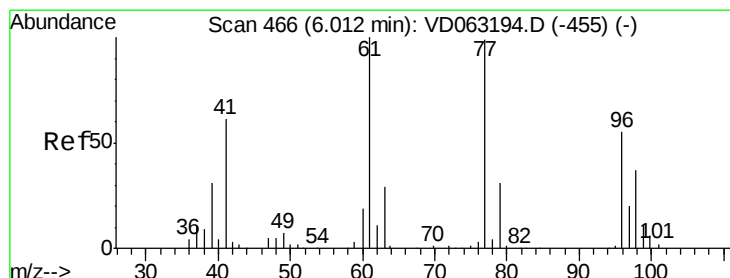
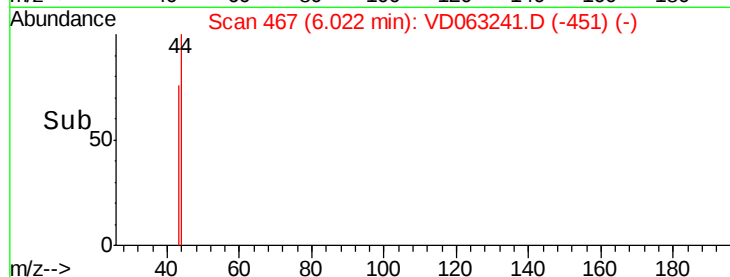
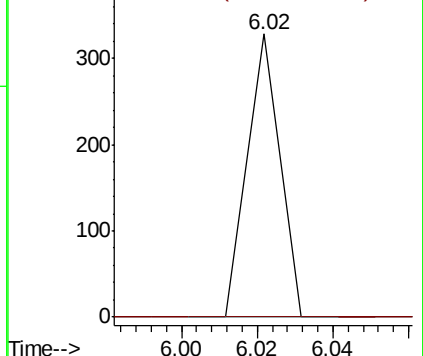
43 100

72 0.0 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.127 ug/l

RT: 6.14 min Scan# 479

Delta R.T. 0.13 min

Lab File: VD063241.D

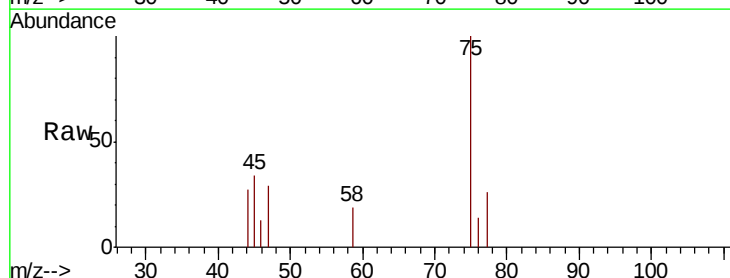
Acq: 30 Jul 2019 14:58

Tgt Ion: 77 Resp: 867

Ion Ratio Lower Upper

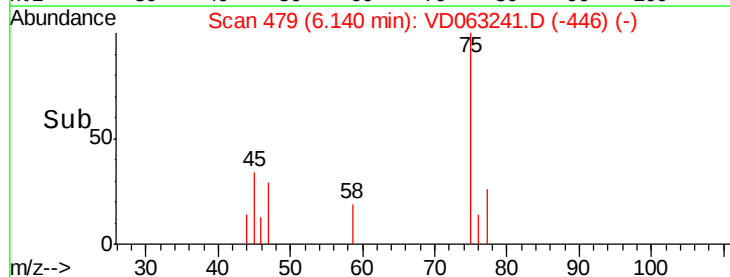
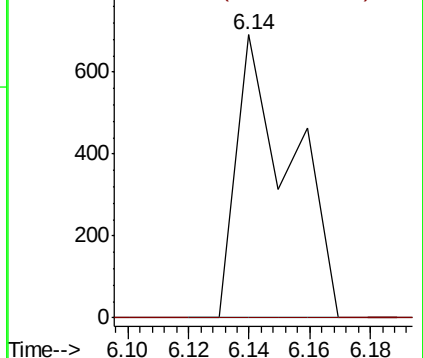
77 100

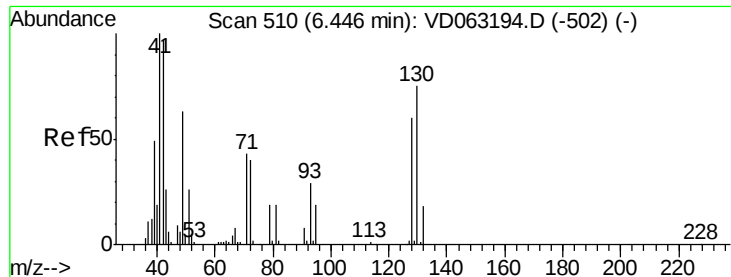
97 0.0 10.2 30.6#



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

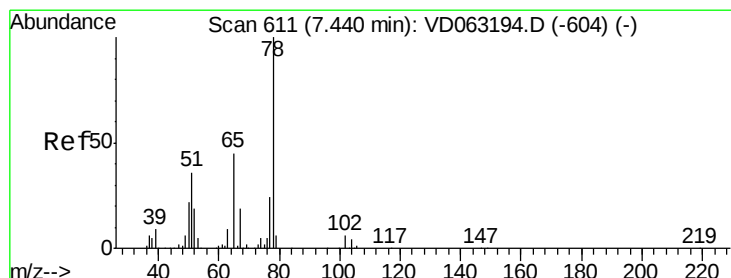
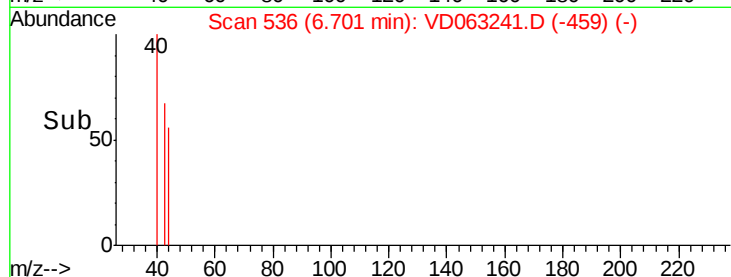
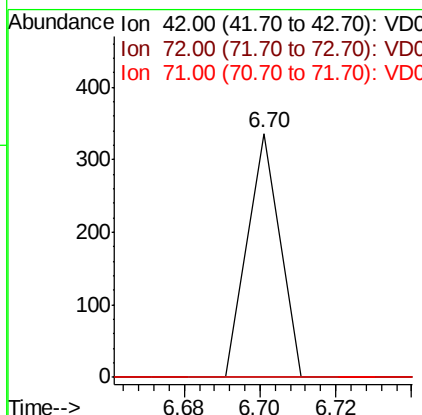
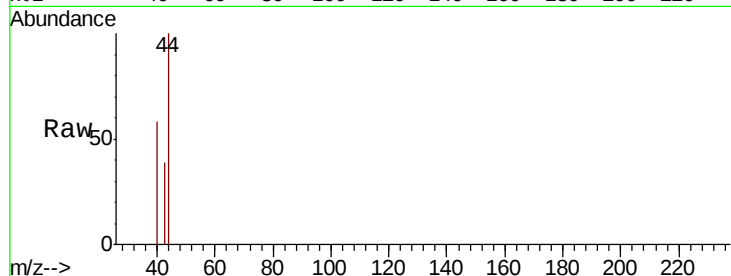




#29
Tetrahydrofuran
Concen: 7.683 ug/l
RT: 6.70 min Scan# 536
Delta R.T. 0.26 min
Lab File: VD063241.D
Acq: 30 Jul 2019 14:58

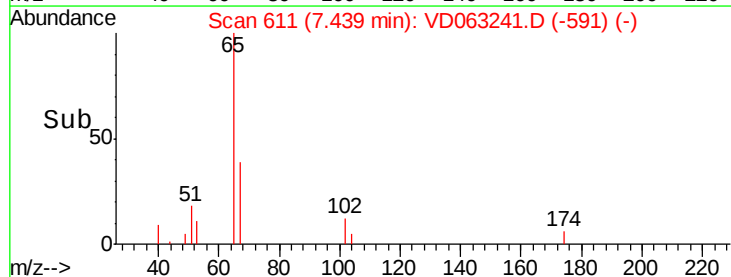
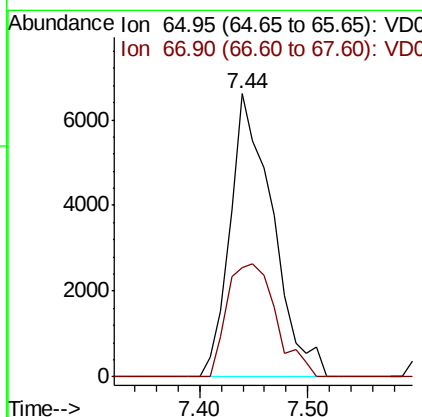
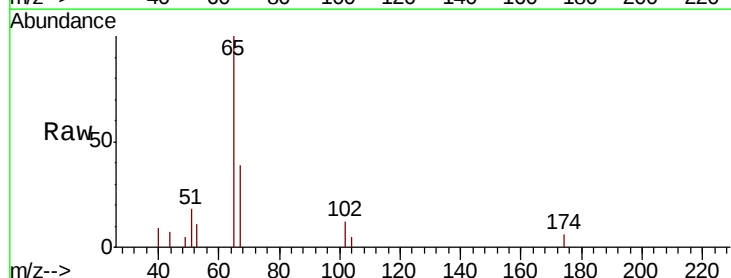
Instrument :
MSVOA_D
ClientSampleId :
BP-VPB203-GW-418-420

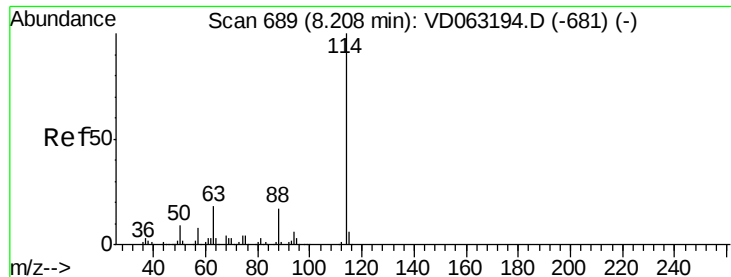
Tot Ion: 42 Resp: 198
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.2#
71 0.0 35.7 53.5#



#33
1,2-Dichloroethane-d4
Concen: 64.820 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.00 min
Lab File: VD063241.D
Acq: 30 Jul 2019 14:58

Tgt Ion: 65 Resp: 18045
Ion Ratio Lower Upper
65 100
67 38.7 0.0 85.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. -0.00 min

Lab File: VD063241.D

Acq: 30 Jul 2019 14:58

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB203-GW-418-420

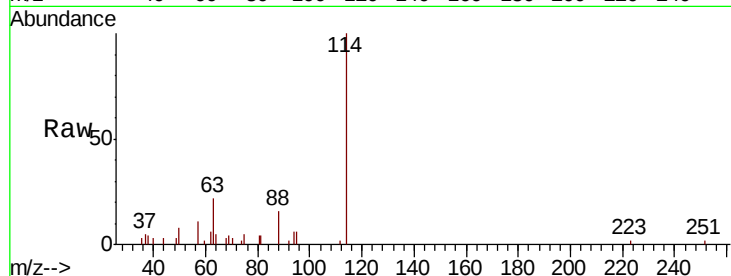
Tot Ion:114 Resp: 43321

Ion Ratio Lower Upper

114 100

63 21.6 0.0 35.2

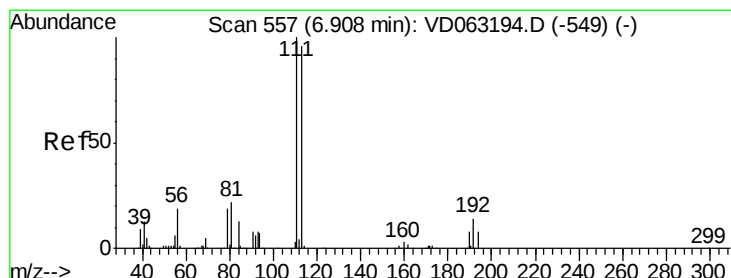
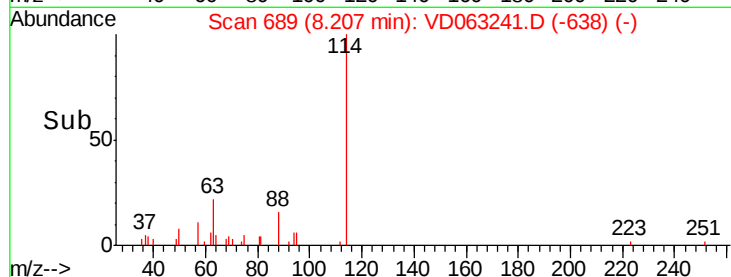
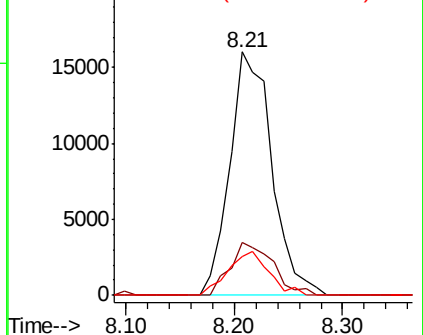
88 16.0 0.0 34.6



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: 36.978 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.00 min

Lab File: VD063241.D

Acq: 30 Jul 2019 14:58

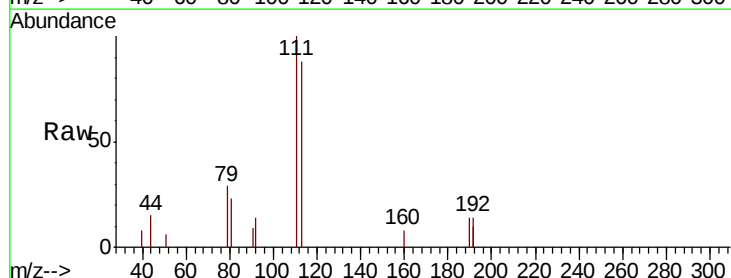
Tgt Ion:113 Resp: 13677

Ion Ratio Lower Upper

113 100

111 114.0 83.2 124.8

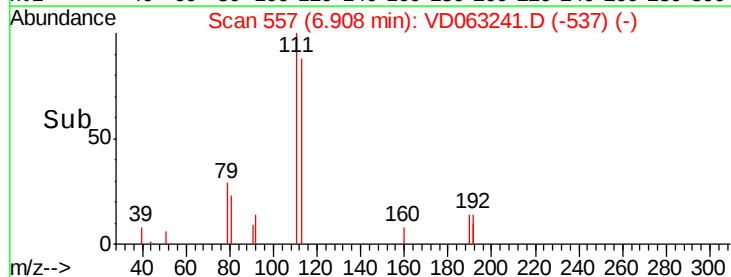
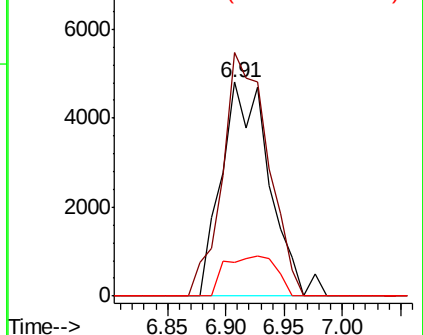
192 15.8 11.8 17.8

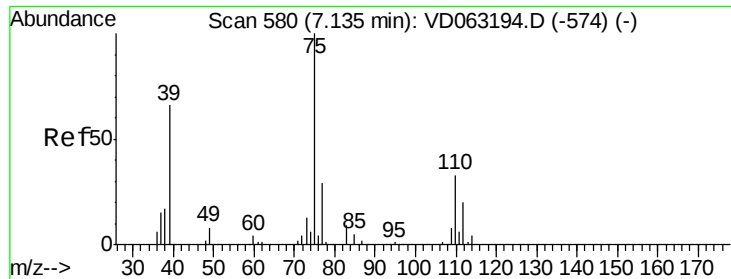


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

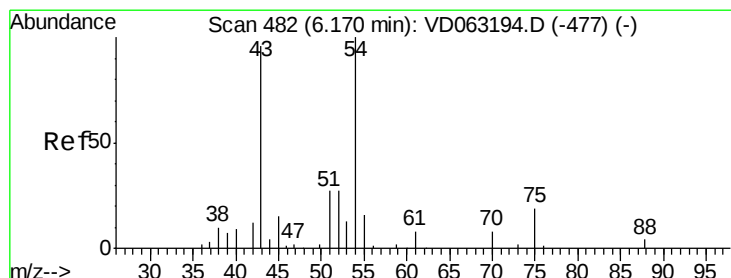
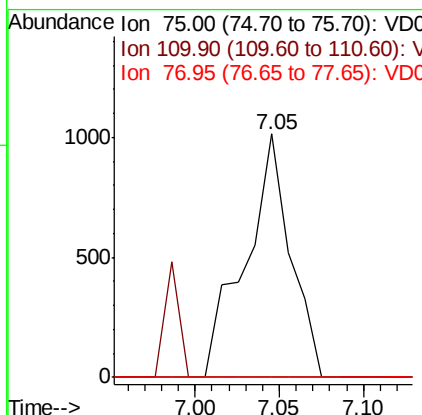
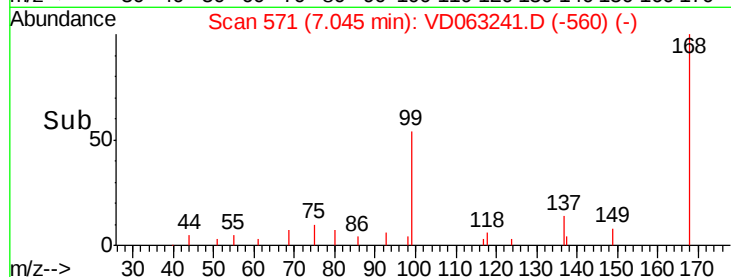
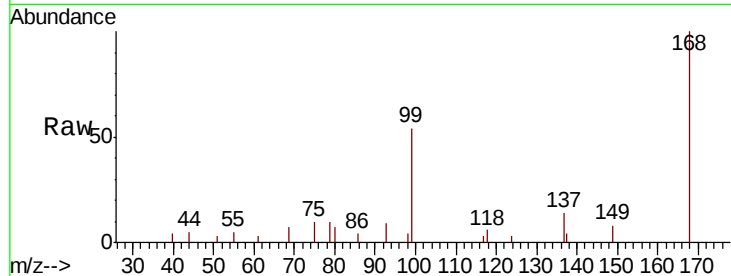




#36
 1,1-Dichloropropene
 Concen: 4.768 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.09 min
 Lab File: VD063241.D
 Acq: 30 Jul 2019 14:58

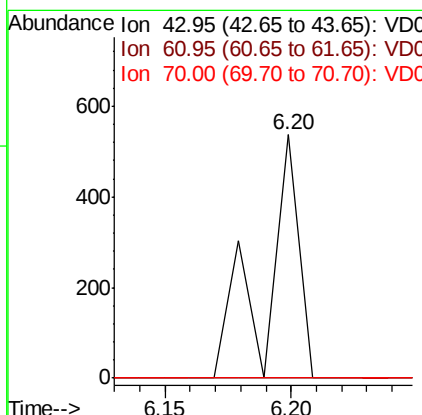
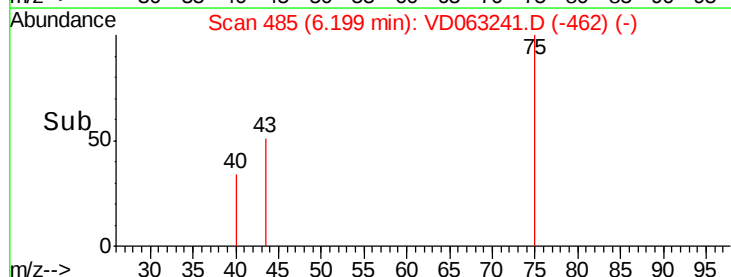
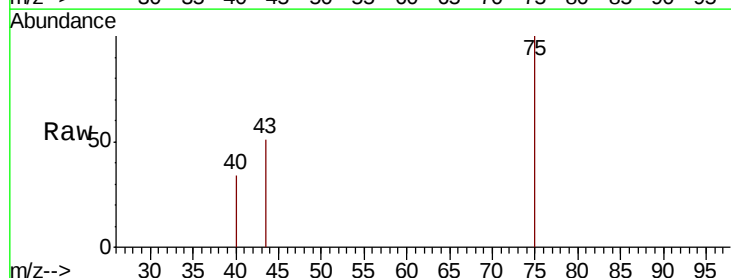
Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB203-GW-418-420

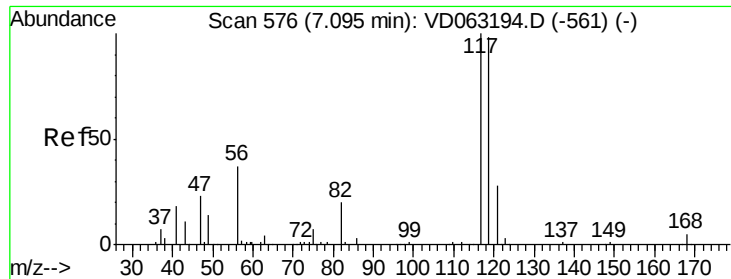
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	16.1	48.2#
77	0.0	22.7	34.1#



#37
 Ethyl Acetate
 Concen: 2.792 ug/l
 RT: 6.20 min Scan# 485
 Delta R.T. 0.03 min
 Lab File: VD063241.D
 Acq: 30 Jul 2019 14:58

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.3	16.9#
70	0.0	5.1	7.7#





#38

Carbon Tetrachloride

Concen: 2.952 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.06 min

Lab File: VD063241.D

Acq: 30 Jul 2019 14:58

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB203-GW-418-420

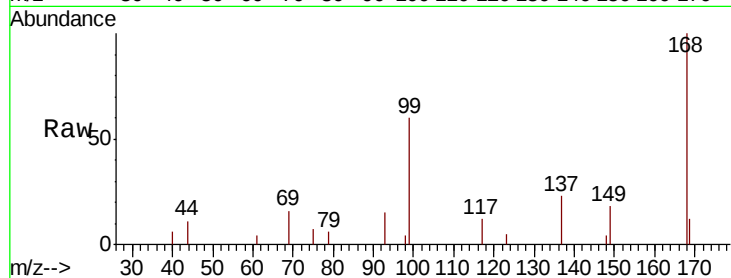
Tot Ion:117 Resp: 1757

Ion Ratio Lower Upper

117 100

119 0.0 78.2 117.2#

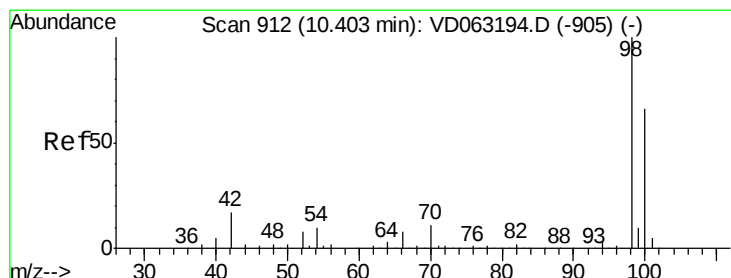
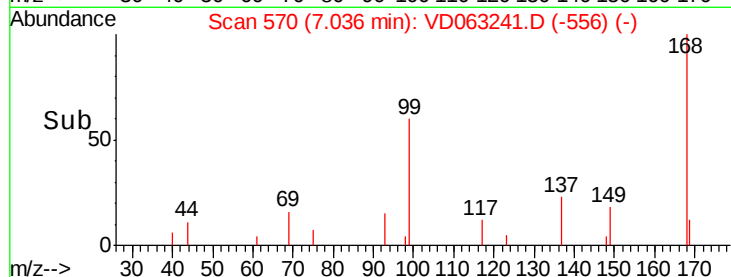
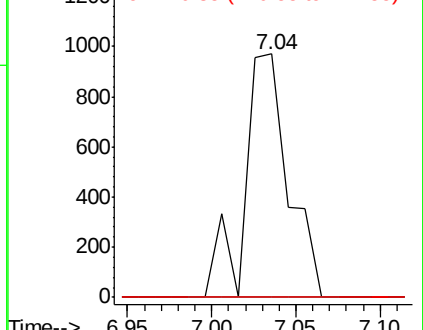
121 0.0 22.1 33.1#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



#50

Toluene-d8

Concen: 35.656 ug/l

RT: 10.40 min Scan# 912

Delta R.T. -0.00 min

Lab File: VD063241.D

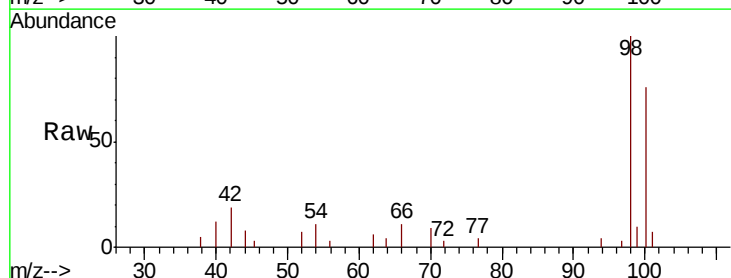
Acq: 30 Jul 2019 14:58

Tgt Ion: 98 Resp: 29515

Ion Ratio Lower Upper

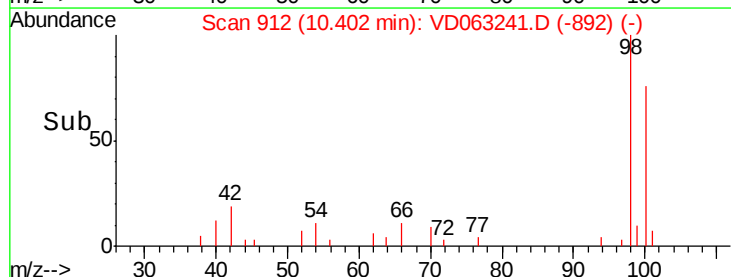
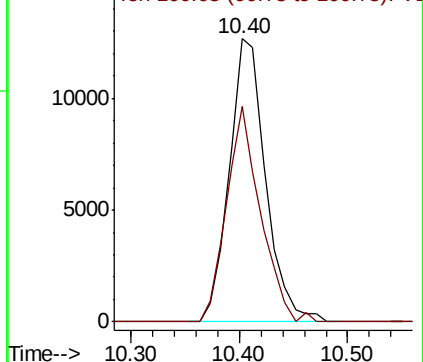
98 100

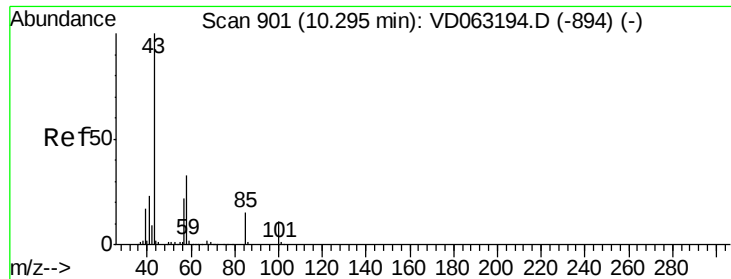
100 76.1 53.2 79.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

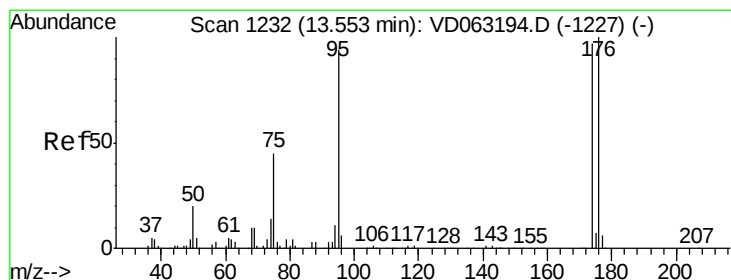
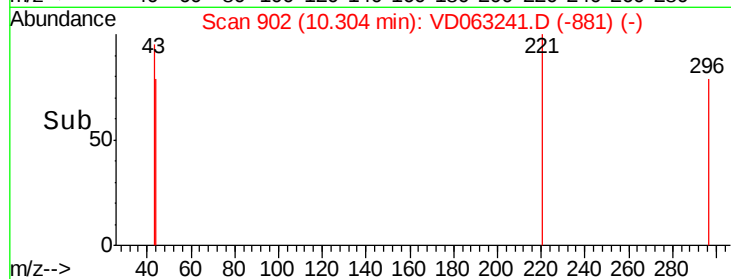
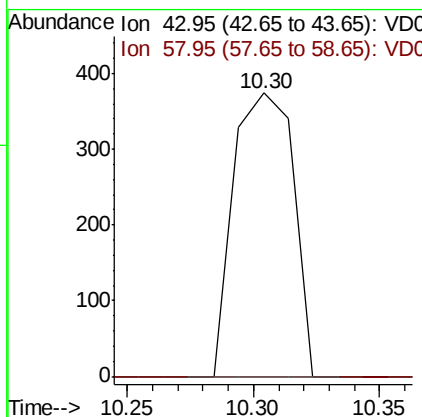
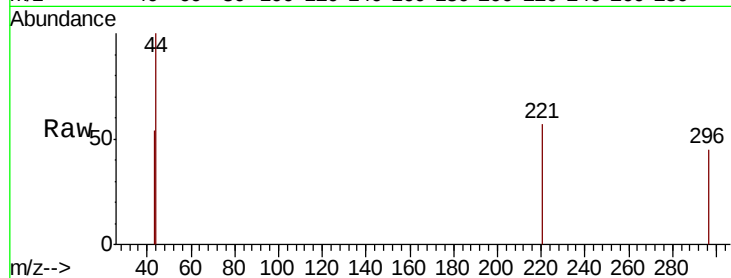




#51
4-Methyl-2-Pentanone
Concen: 3.999 ug/l
RT: 10.30 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD063241.D
Acq: 30 Jul 2019 14:58

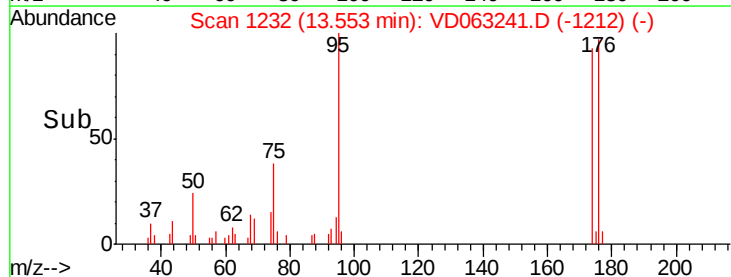
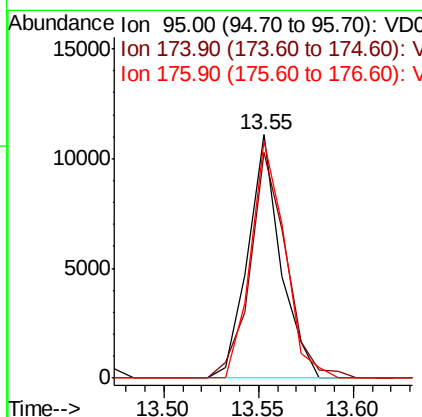
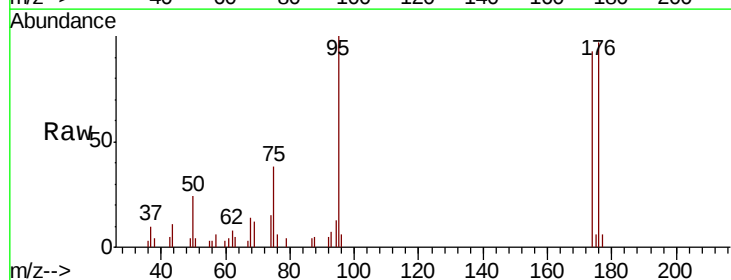
Instrument :
MSVOA_D
ClientSampleId :
BP-VPB203-GW-418-420

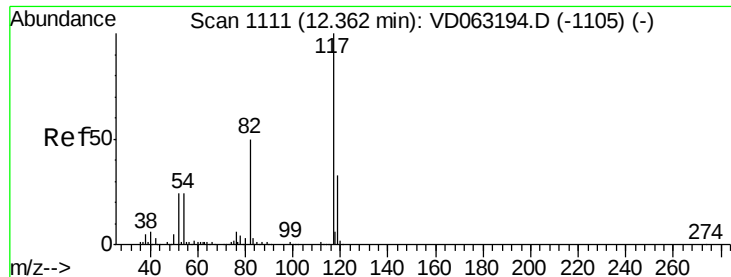
Tot Ion: 43 Resp: 617
Ion Ratio Lower Upper
43 100
58 0.0 26.2 39.2#



#62
4-Bromofluorobenzene
Concen: 35.259 ug/l
RT: 13.55 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VD063241.D
Acq: 30 Jul 2019 14:58

Tgt Ion: 95 Resp: 13300
Ion Ratio Lower Upper
95 100
174 92.5 0.0 205.4
176 97.3 0.0 211.8

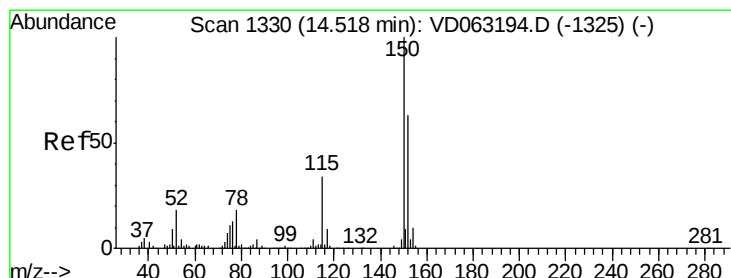
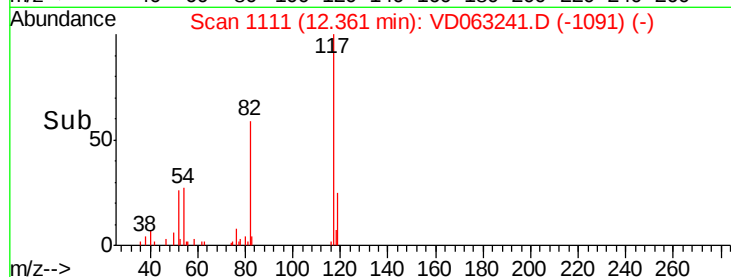
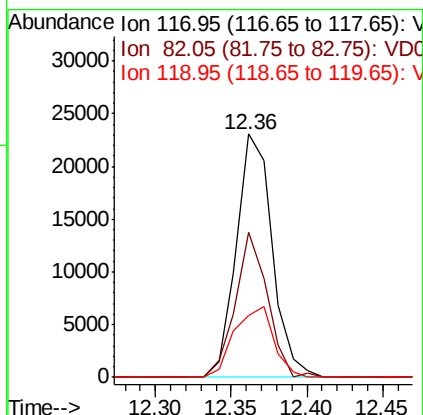
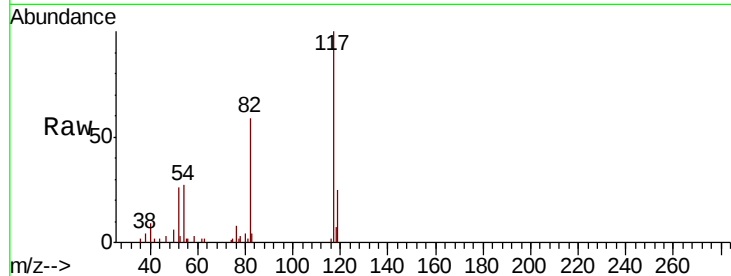




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.00 min
Lab File: VD063241.D
Acq: 30 Jul 2019 14:58

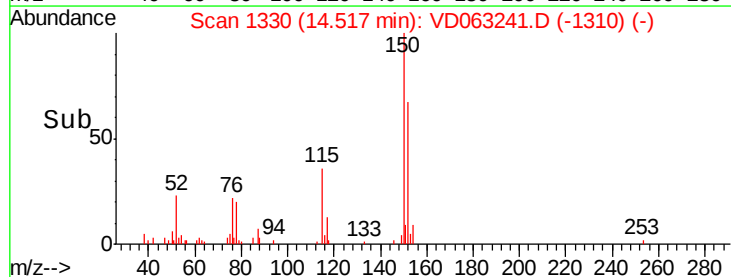
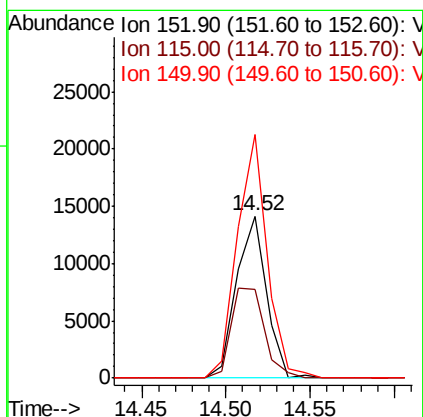
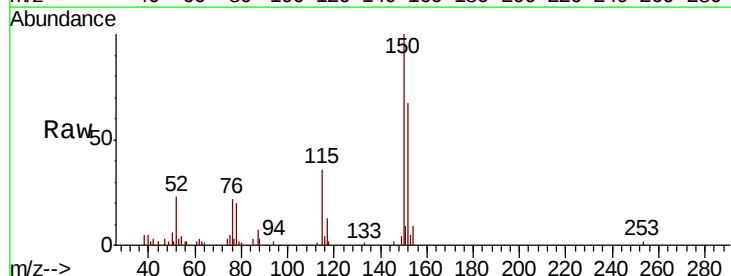
Instrument :
MSVOA_D
ClientSampleId :
BP-VPB203-GW-418-420

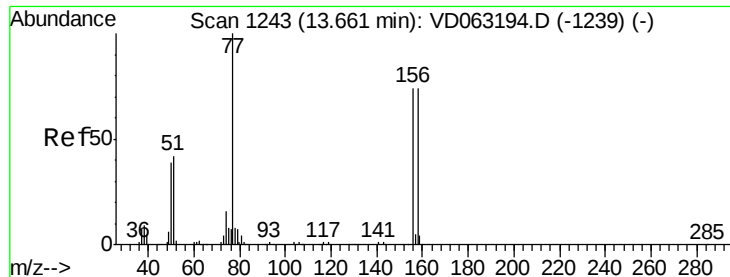
Tot Ion:117 Resp: 37914
Ion Ratio Lower Upper
117 100
82 59.4 40.1 60.1
119 25.2 26.5 39.7#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VD063241.D
Acq: 30 Jul 2019 14:58

Tgt Ion:152 Resp: 17523
Ion Ratio Lower Upper
152 100
115 54.6 27.5 82.4
150 150.0 0.0 320.6





#77

Bromobenzene

Concen: 1.385 ug/l

RT: 13.66 min Scan# 1243

Delta R.T. -0.00 min

Lab File: VD063241.D

Acq: 30 Jul 2019 14:58

Instrument :

MSVOA_D

ClientSampleId :

BP-VPB203-GW-418-420

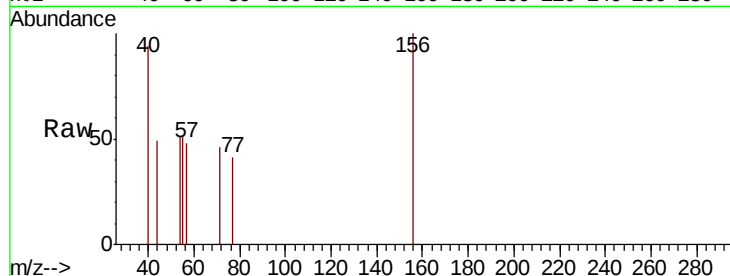
Tot Ion:156 Resp: 434

Ion Ratio Lower Upper

156 100

77 41.1 67.6 202.8#

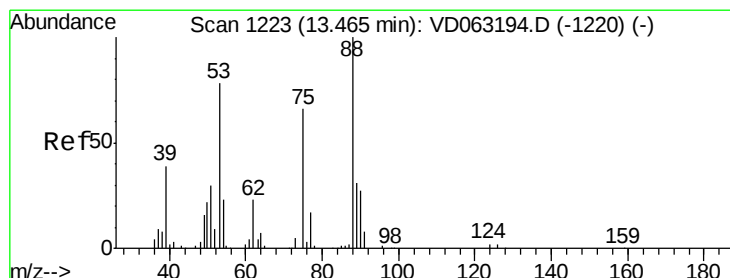
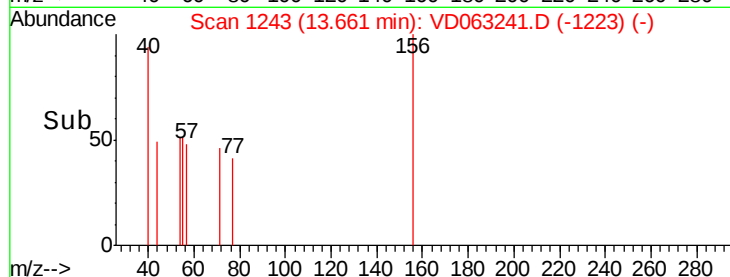
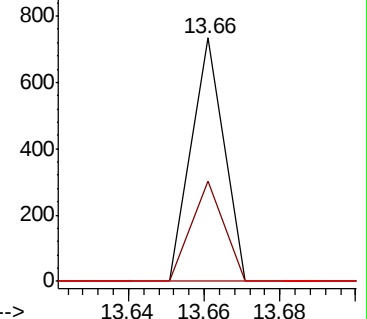
158 0.0 49.8 149.4#



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V



#81

trans-1,4-Dichloro-2-butene

Concen: 97.392 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.09 min

Lab File: VD063241.D

Acq: 30 Jul 2019 14:58

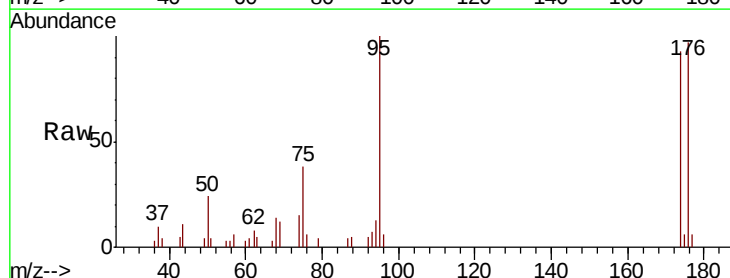
Tgt Ion: 75 Resp: 5692

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

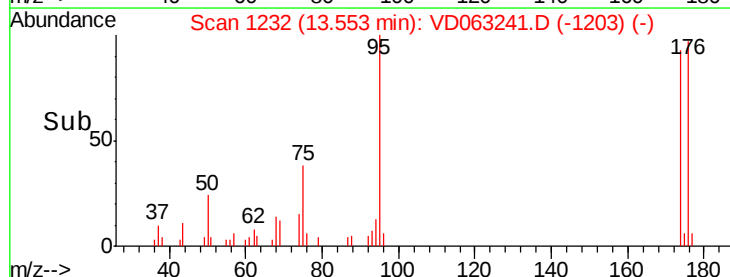
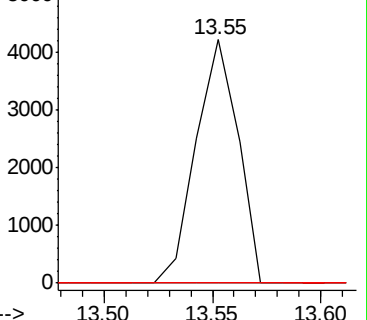
89 0.0 37.4 56.0#

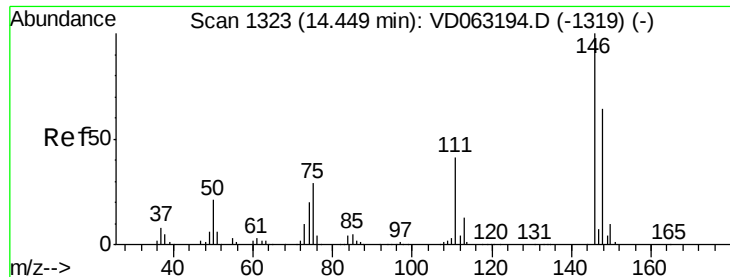


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

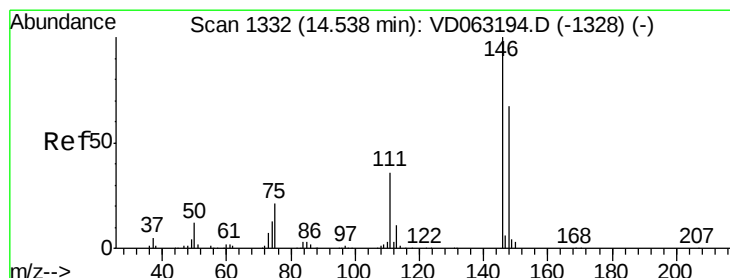
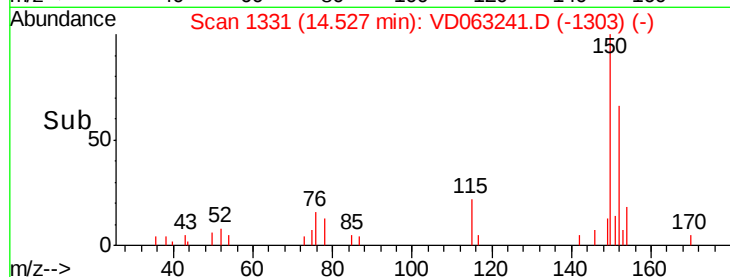
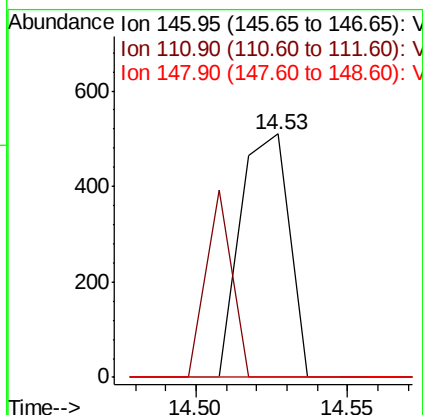
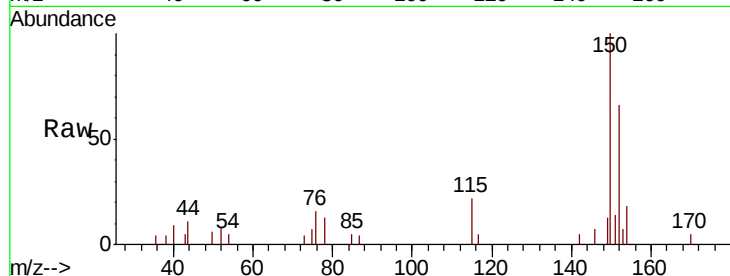




#87
 1,3-Dichlorobenzene
 Concen: 1.040 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. 0.08 min
 Lab File: VD063241.D
 Acq: 30 Jul 2019 14:58

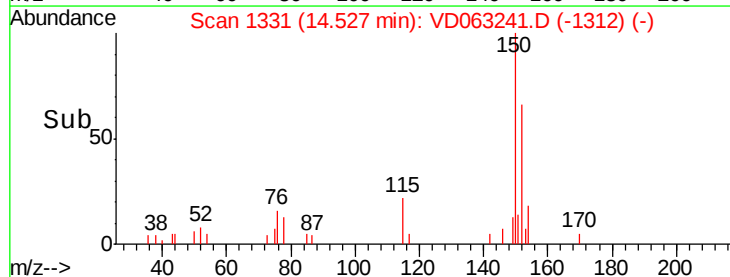
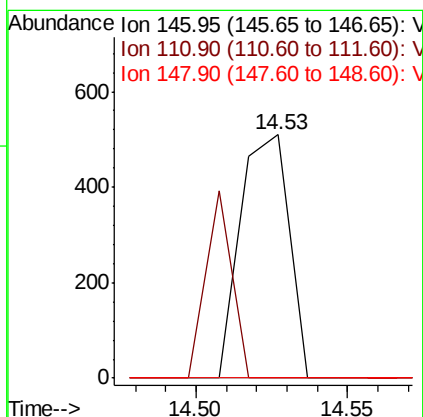
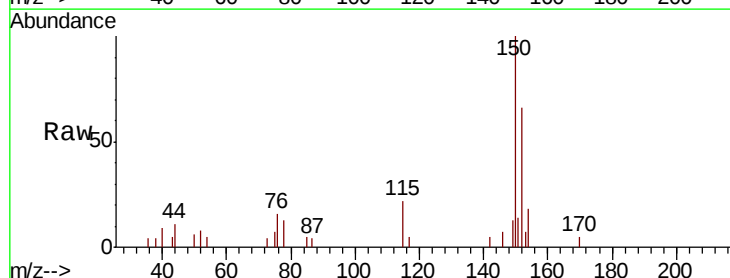
Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB203-GW-418-420

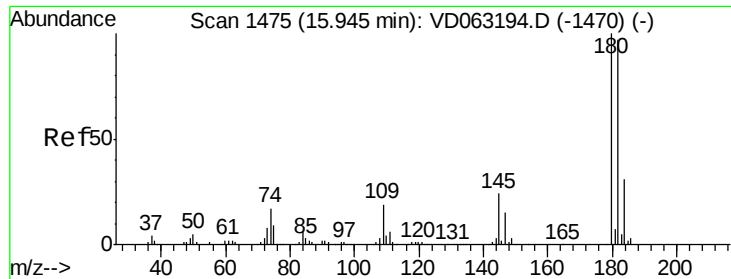
Tot Ion:146 Resp: 577
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.4 61.3#
 148 0.0 31.8 95.4#



#88
 1,4-Dichlorobenzene
 Concen: 1.028 ug/l
 RT: 14.53 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD063241.D
 Acq: 30 Jul 2019 14:58

Tgt Ion:146 Resp: 577
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.1 54.3#
 148 0.0 33.4 100.1#

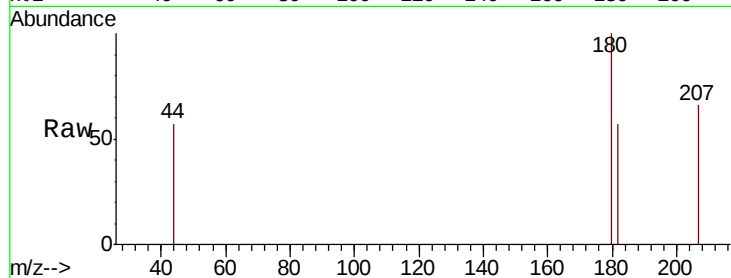




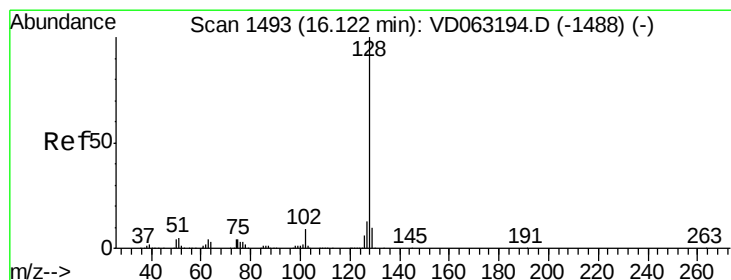
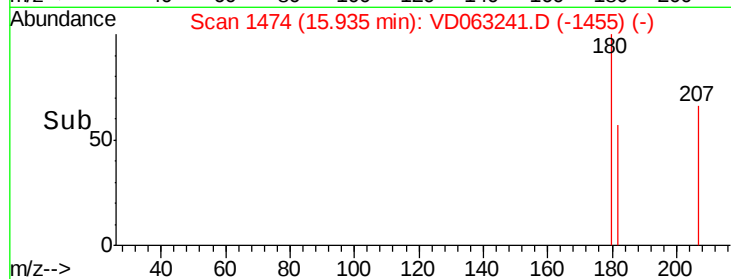
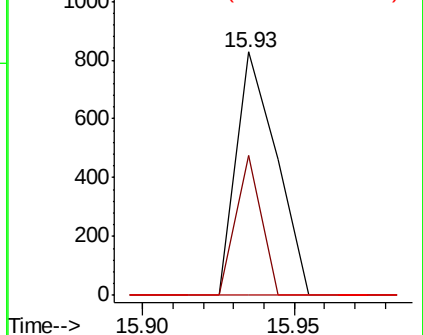
#93
 1,2,4-Trichlorobenzene
 Concen: 1.987 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD063241.D
 Acq: 30 Jul 2019 14:58

Instrument :
 MSVOA_D
 ClientSampleId :
 BP-VPB203-GW-418-420

Tot Ion:180 Resp: 762
 Ion Ratio Lower Upper
 180 100
 182 57.4 48.6 145.8
 145 0.0 12.2 36.6#

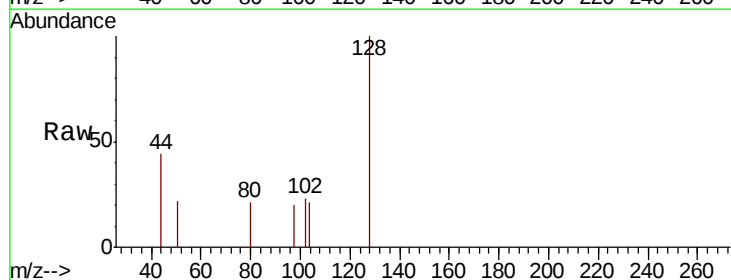


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V



#95
 Naphthalene
 Concen: 1.642 ug/l
 RT: 16.12 min Scan# 1493
 Delta R.T. -0.00 min
 Lab File: VD063241.D
 Acq: 30 Jul 2019 14:58

Tgt Ion:128 Resp: 890
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 7.8 11.8#



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

