

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063461.D
 Acq On : 9 Aug 2019 3:25
 Operator : JC/SY
 Sample : K4223-30
 Misc : 3.52g/5ml/MSVOA_D/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-15

Quant Time: Aug 09 07:04:34 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	893244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.23	114	1207591	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	716791	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	205084	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	438064	44.20	ug/l	0.02
Spiked Amount			Recovery	=	88.40%	
35) Dibromofluoromethane	6.93	113	411353	39.90	ug/l	0.02
Spiked Amount			Recovery	=	79.80%	
50) Toluene-d8	10.42	98	729137	31.60	ug/l	0.02
Spiked Amount			Recovery	=	63.20%	
62) 4-Bromofluorobenzene	13.56	95	237852	22.62	ug/l	0.00
Spiked Amount			Recovery	=	45.24%	

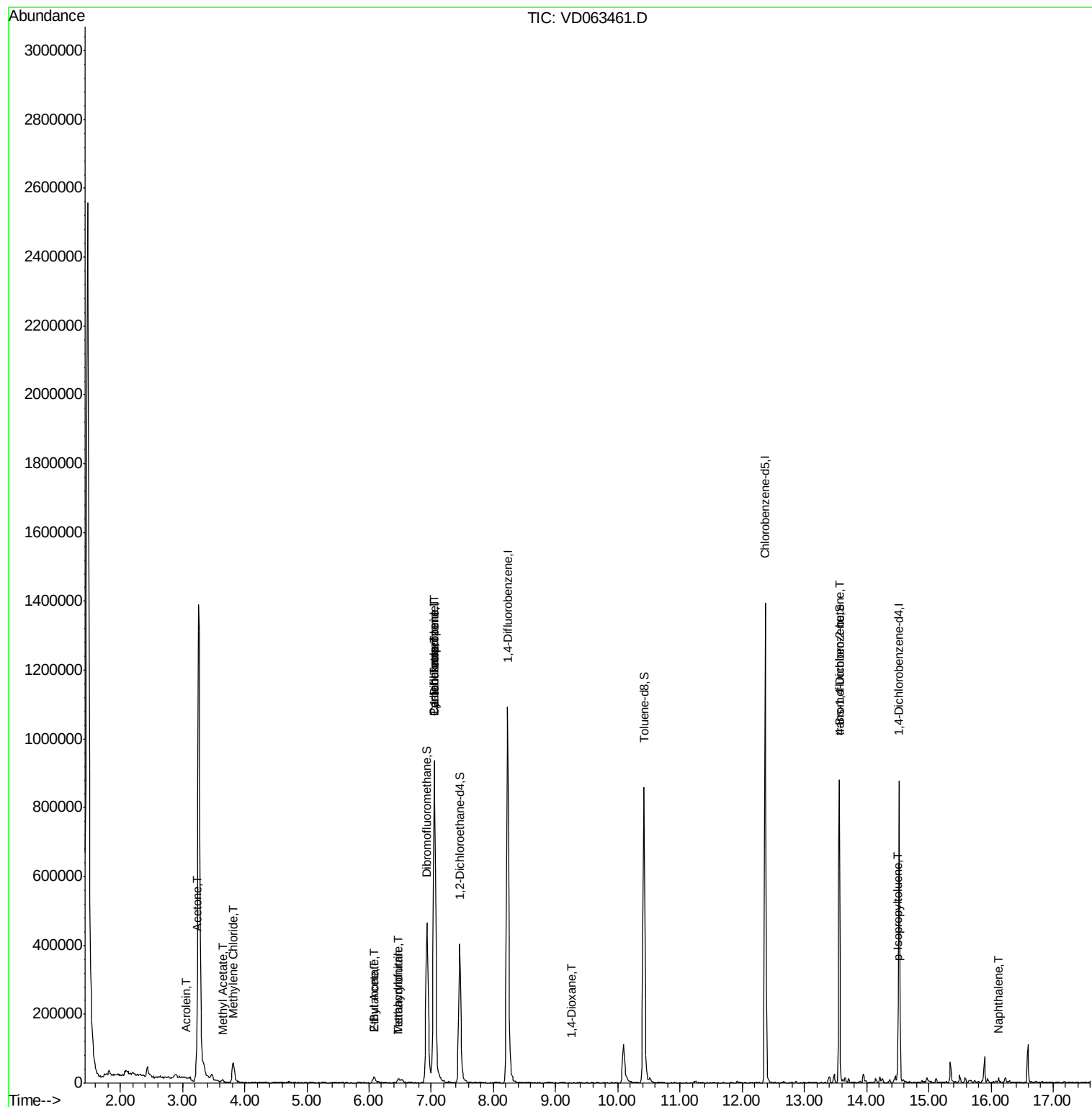
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.06	56	490	1.171	ug/l	92
16) Acetone	3.23	43	82981	42.970	ug/l	94
18) Methyl Acetate	3.64	43	10870	2.930	ug/l	93
20) Methylene Chloride	3.82	84	37388	4.790	ug/l	97
25) 2-Butanone	6.08	43	29836	15.395	ug/l #	88
29) Tetrahydrofuran	6.47	42	9064	9.878	ug/l #	92
31) Cyclohexane	7.04	56	18993	2.151	ug/l #	30
36) 1,1-Dichloropropene	7.05	75	68258	6.194	ug/l #	55
37) Ethyl Acetate	6.08	43	29836	6.026	ug/l #	70
38) Carbon Tetrachloride	7.05	117	91906	5.539	ug/l #	14
41) Methacrylonitrile	6.46	41	7079	1.195	ug/l #	94
49) 1,4-Dioxane	9.25	88	187	1.270	ug/l #	22
81) trans-1,4-Dichloro-2-buten	13.56	75	104647	152.989	ug/l #	3
86) p-Isopropyltoluene	14.50	119	18421	1.445	ug/l	95
95) Naphthalene	16.12	128	8763	1.381	ug/l #	90

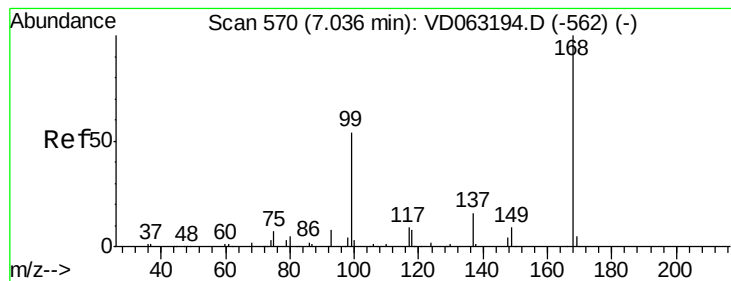
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD063461.D

Acq: 9 Aug 2019 3:25

Instrument :

MSVOA_D

ClientSampleId :

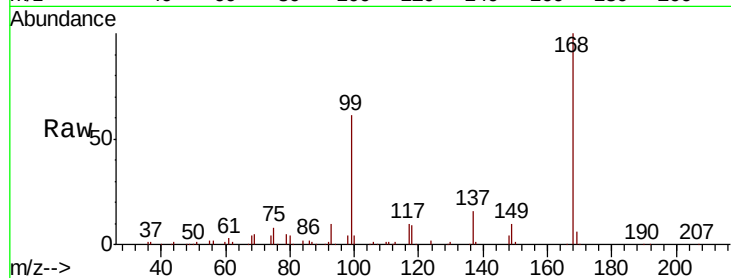
SP-15

Tgt Ion:168 Resp: 893244

Ion Ratio Lower Upper

168 100

99 61.2 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

300000

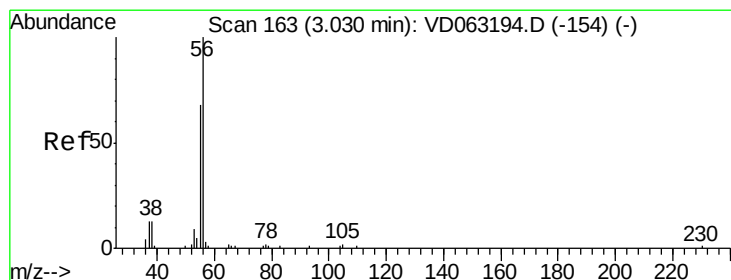
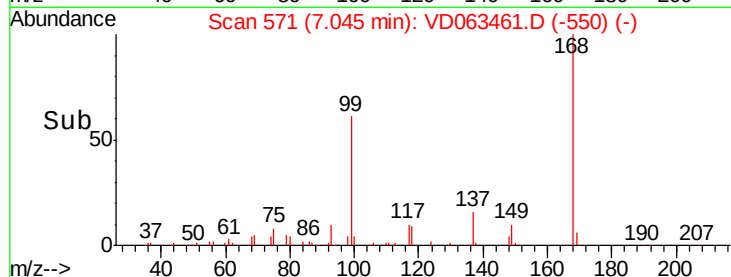
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#13

Acrolein

Concen: 1.171 ug/l

RT: 3.06 min Scan# 166

Delta R.T. 0.03 min

Lab File: VD063461.D

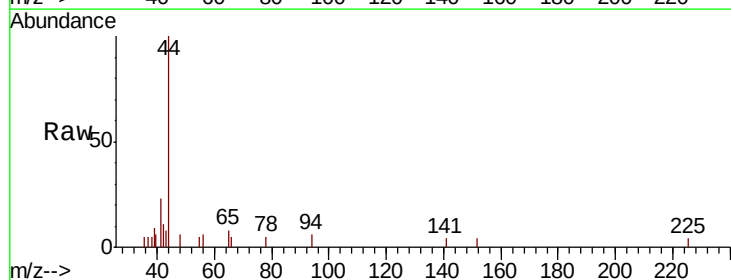
Acq: 9 Aug 2019 3:25

Tgt Ion: 56 Resp: 490

Ion Ratio Lower Upper

56 100

55 75.5 55.3 82.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

600

500

400

300

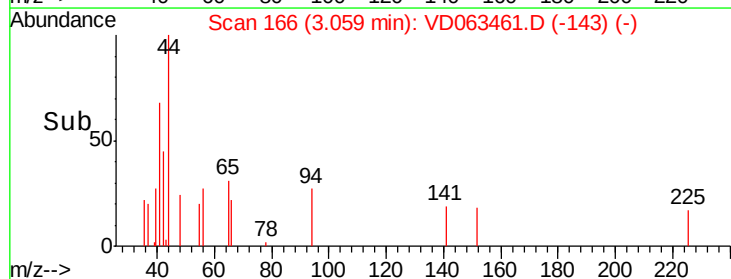
200

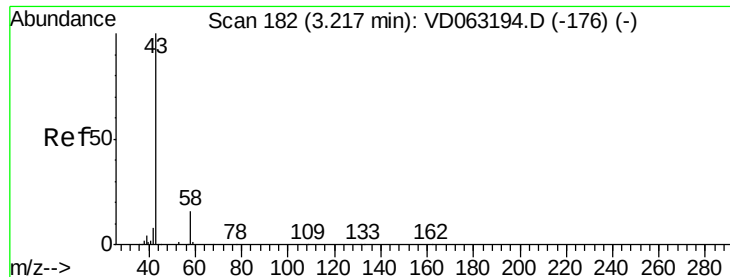
100

0

Time-->

3.02 3.04 3.06 3.08





#16

Acetone

Concen: 42.970 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063461.D

Acq: 9 Aug 2019 3:25

Instrument :

MSVOA_D

ClientSampleId :

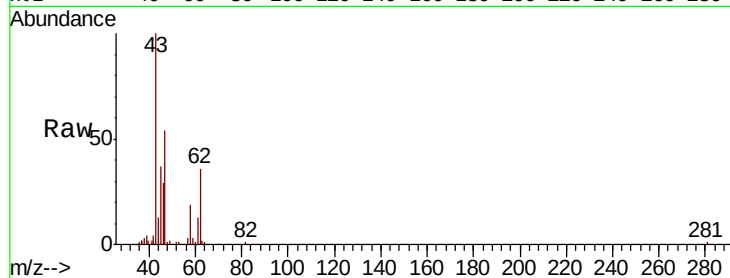
SP-15

Tgt Ion: 43 Resp: 82981

Ion Ratio Lower Upper

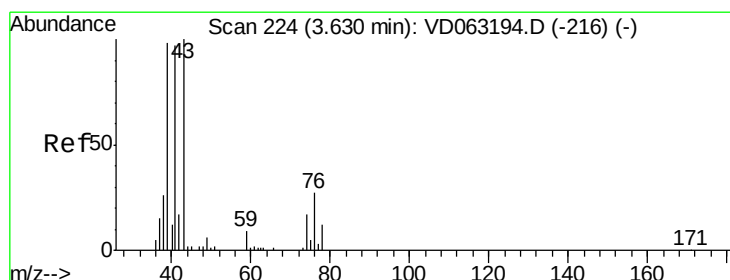
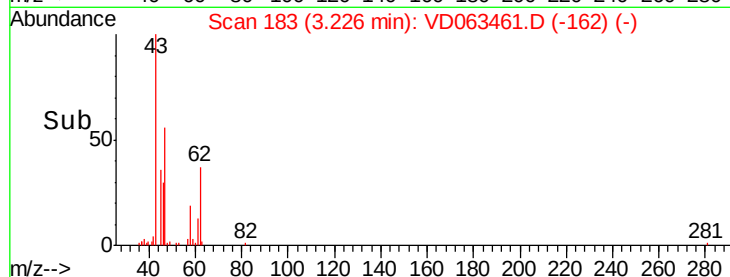
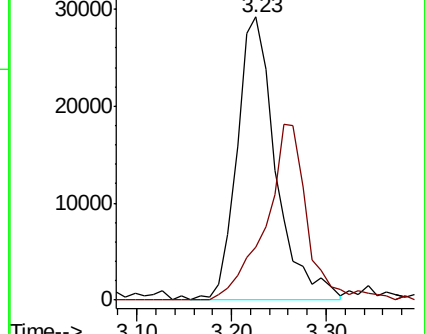
43 100

58 18.6 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 2.930 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.01 min

Lab File: VD063461.D

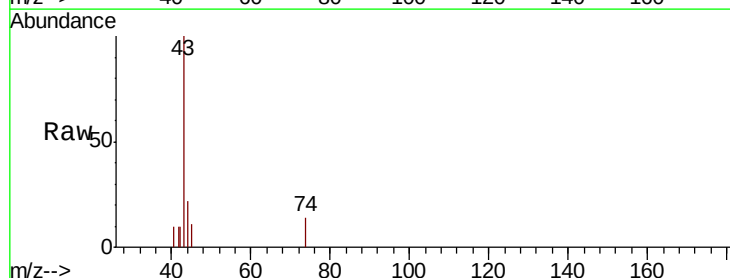
Acq: 9 Aug 2019 3:25

Tgt Ion: 43 Resp: 10870

Ion Ratio Lower Upper

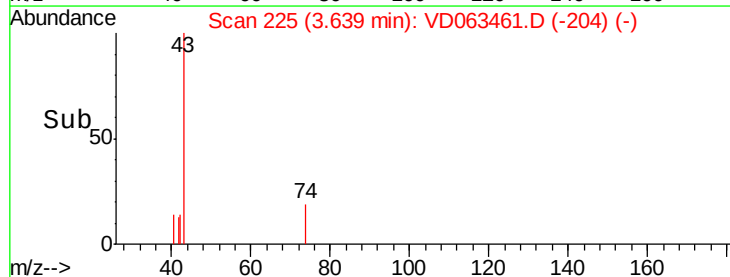
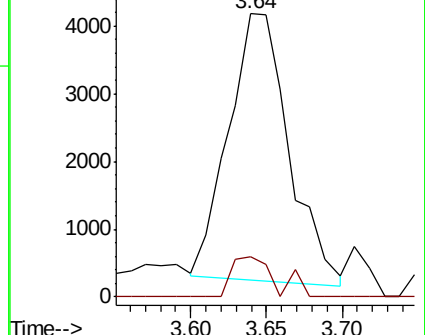
43 100

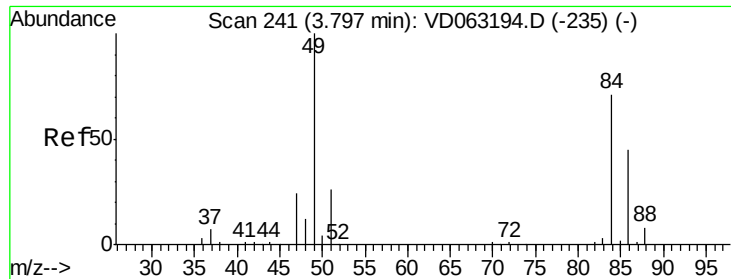
74 14.3 13.8 20.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

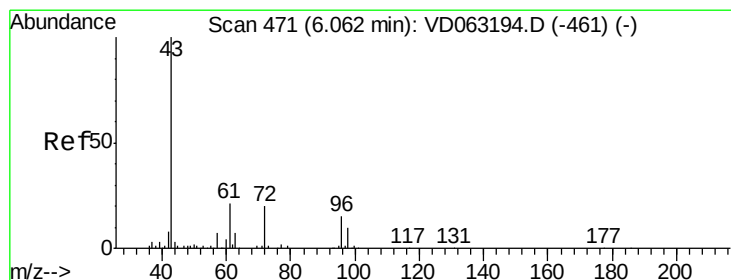
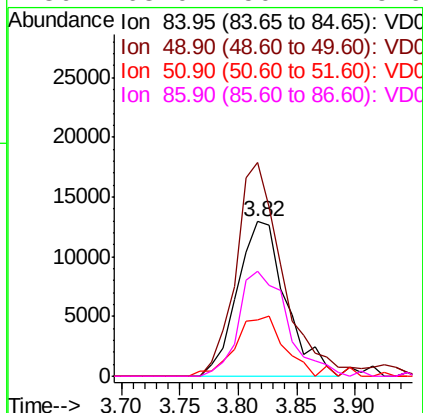
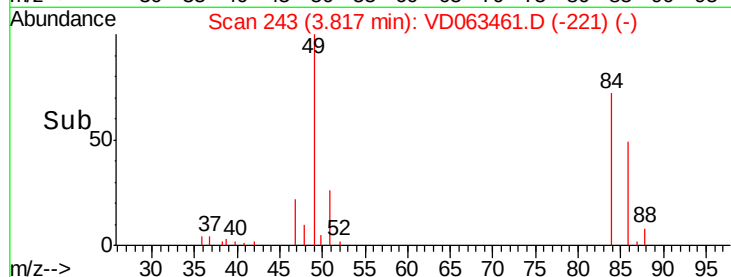
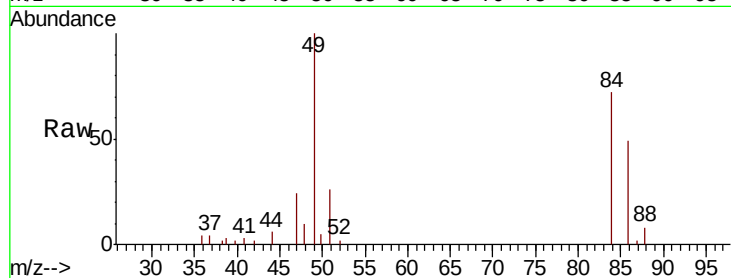




#20
Methylene Chloride
Concen: 4.790 ug/l
RT: 3.82 min Scan# 243
Delta R.T. 0.02 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

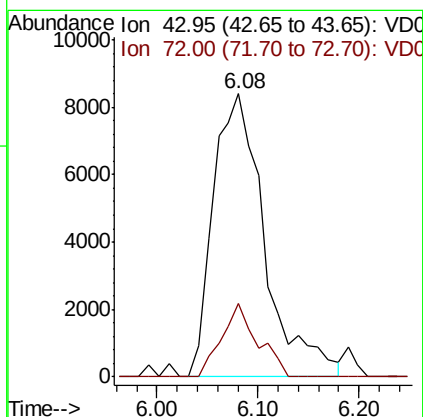
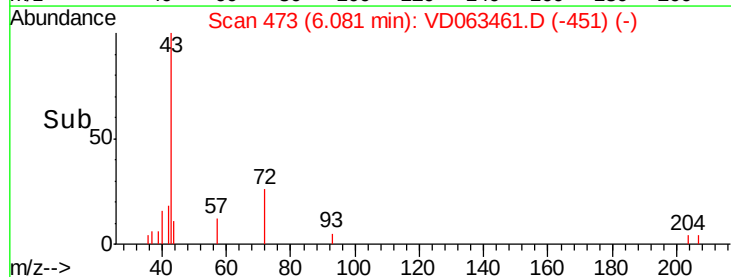
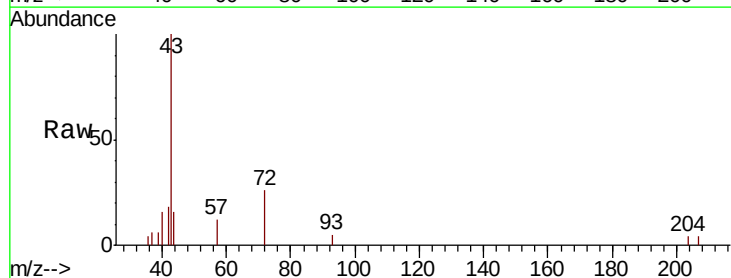
Instrument :
MSVOA_D
ClientSampled :
SP-15

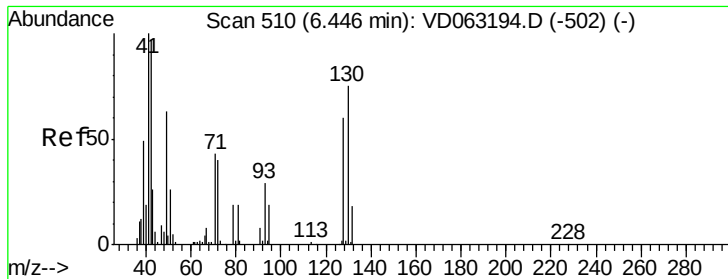
Tgt Ion: 84 Resp: 37388
Ion Ratio Lower Upper
84 100
49 138.3 112.5 168.7
51 36.2 29.6 44.4
86 68.0 50.4 75.6



#25
2-Butanone
Concen: 15.395 ug/l
RT: 6.08 min Scan# 473
Delta R.T. 0.02 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

Tgt Ion: 43 Resp: 29836
Ion Ratio Lower Upper
43 100
72 25.8 16.3 24.5#





#29

Tetrahydrofuran

Concen: 9.878 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063461.D

Acq: 9 Aug 2019 3:25

Instrument :

MSVOA_D

ClientSampleId :

SP-15

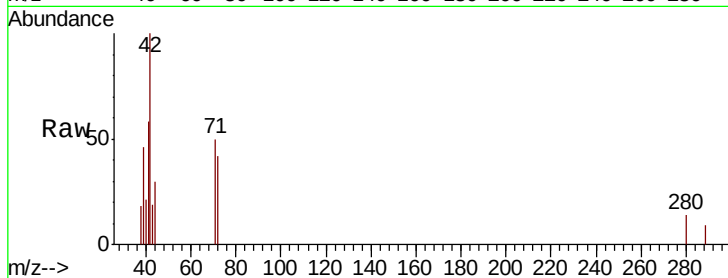
Tgt Ion: 42 Resp: 9064

Ion Ratio Lower Upper

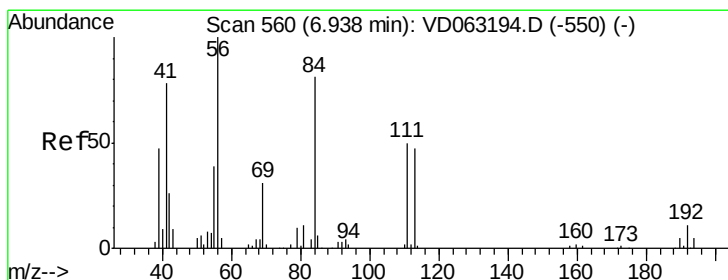
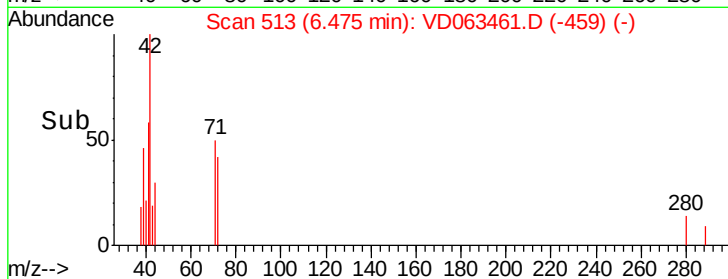
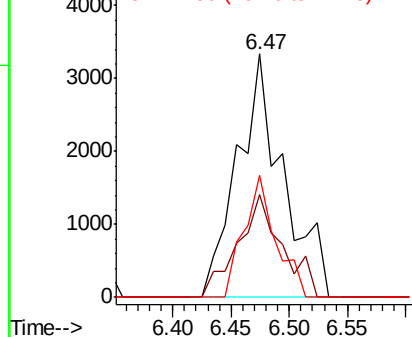
42 100

72 40.8 33.4 50.2

71 34.9 35.7 53.5#



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 2.151 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.10 min

Lab File: VD063461.D

Acq: 9 Aug 2019 3:25

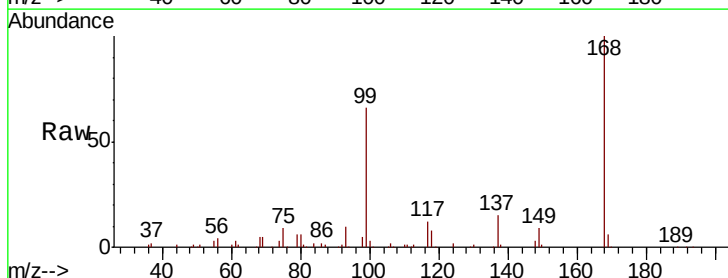
Tgt Ion: 56 Resp: 18993

Ion Ratio Lower Upper

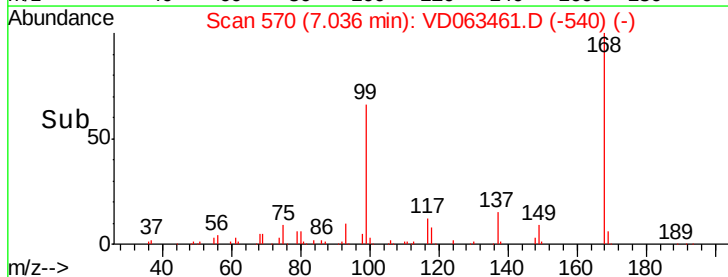
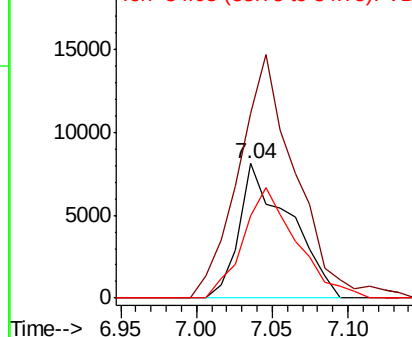
56 100

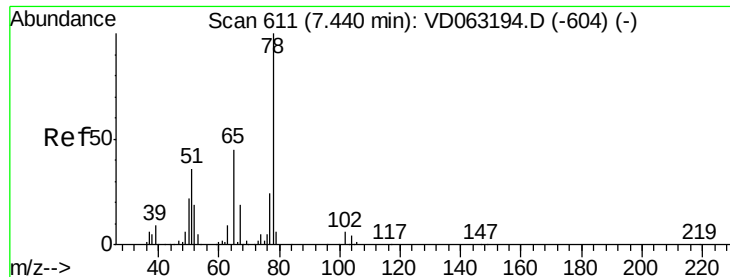
69 137.5 24.5 36.7#

84 60.9 64.9 97.3#



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

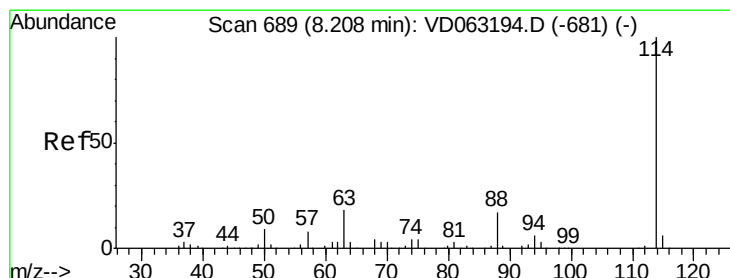
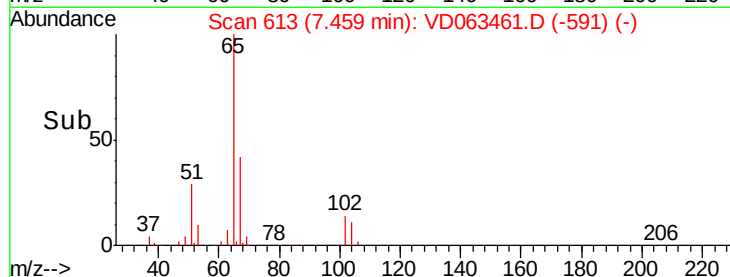
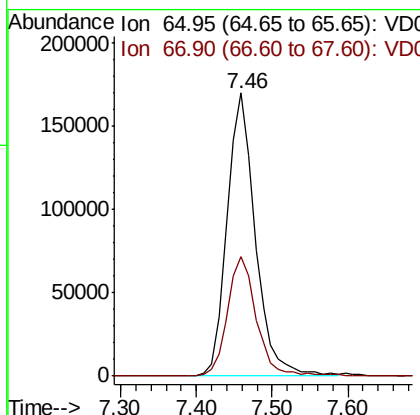
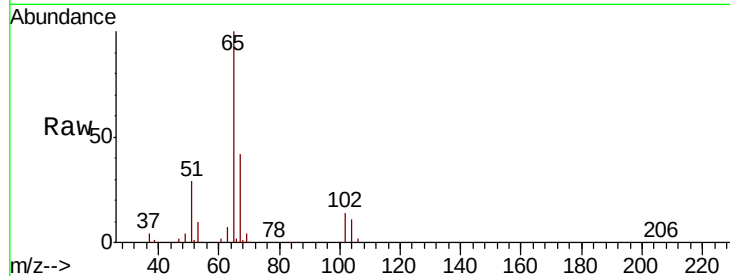




#33
 1,2-Dichloroethane-d4
 Concen: 44.198 ug/l
 RT: 7.46 min Scan# 613
 Delta R.T. 0.02 min
 Lab File: VD063461.D
 Acq: 9 Aug 2019 3:25

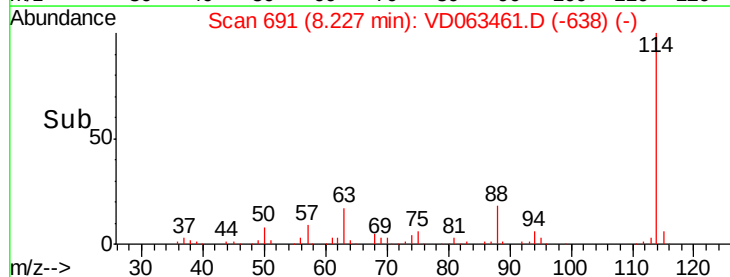
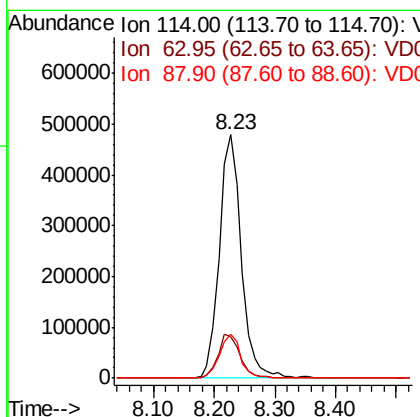
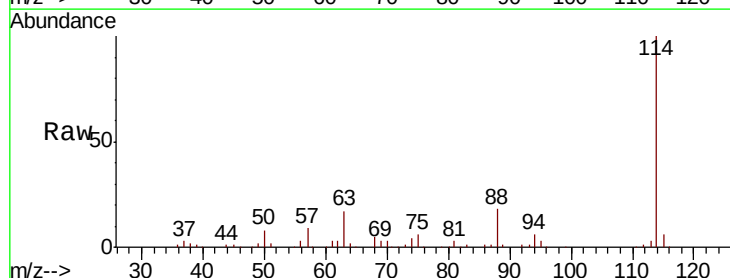
Instrument :
 MSVOA_D
 ClientSampleId :
 SP-15

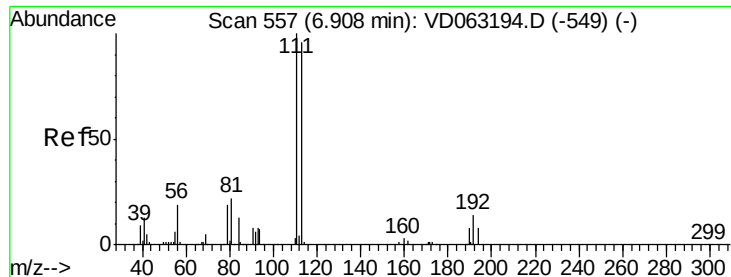
Tgt Ion: 65 Resp: 438064
 Ion Ratio Lower Upper
 65 100
 67 42.1 0.0 85.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 691
 Delta R.T. 0.02 min
 Lab File: VD063461.D
 Acq: 9 Aug 2019 3:25

Tgt Ion: 114 Resp: 1207591
 Ion Ratio Lower Upper
 114 100
 63 17.2 0.0 35.2
 88 17.9 0.0 34.6

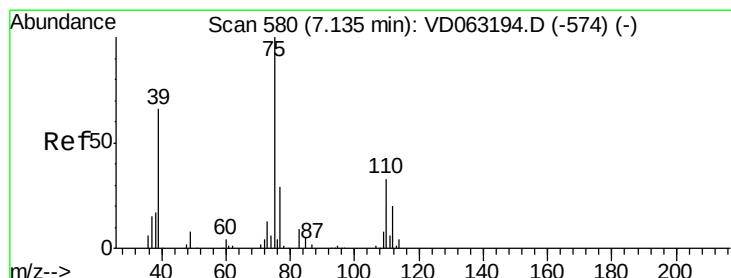
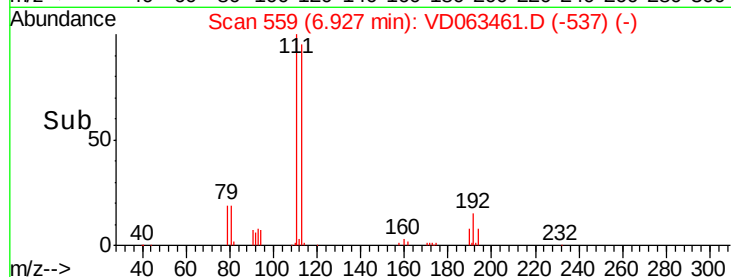
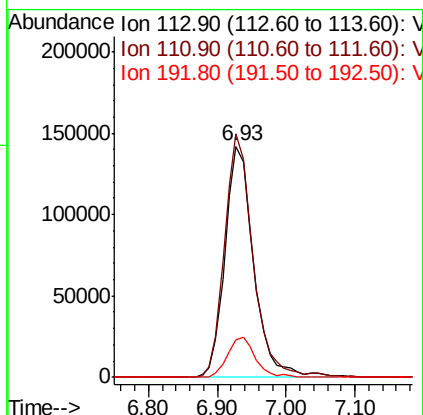
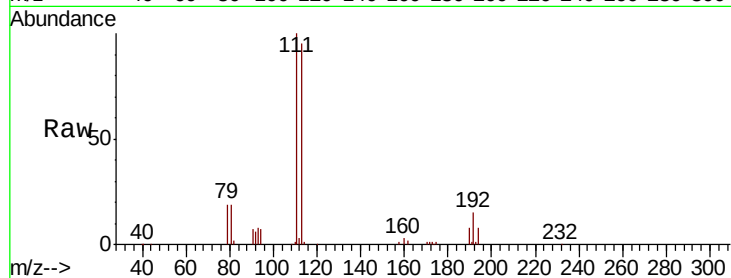




#35
 Dibromofluoromethane
 Concen: 39.897 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.02 min
 Lab File: VD063461.D
 Acq: 9 Aug 2019 3:25

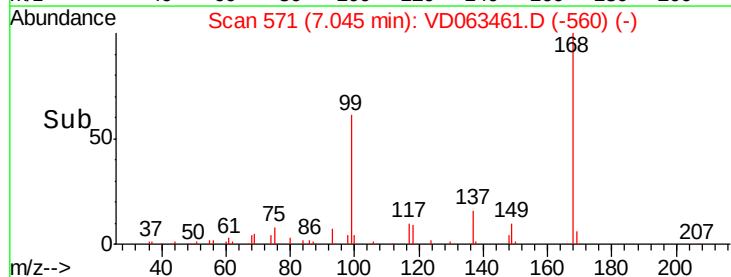
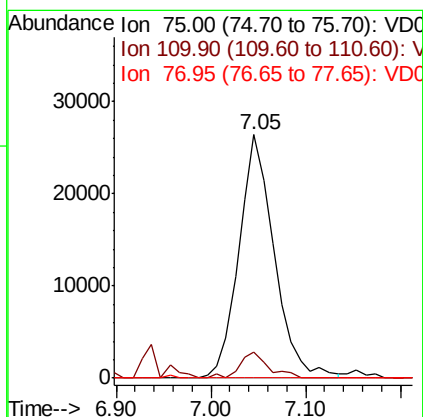
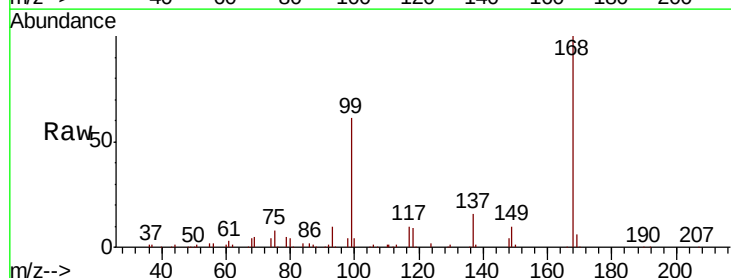
Instrument :
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 ClientSampleId :
 SP-15

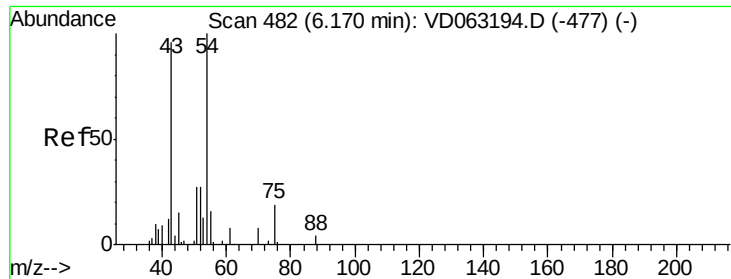
Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.3	83.2	124.8
192	16.0	11.8	17.8



#36
 1,1-Dichloropropene
 Concen: 6.194 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.09 min
 Lab File: VD063461.D
 Acq: 9 Aug 2019 3:25

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	16.1	48.2#
77	0.0	22.7	34.1#





#37

Ethyl Acetate

Concen: 6.026 ug/l

RT: 6.08 min Scan# 473

Delta R.T. -0.09 min

Lab File: VD063461.D

Acq: 9 Aug 2019 3:25

Instrument :

MSVOA_D

ClientSampled :

SP-15

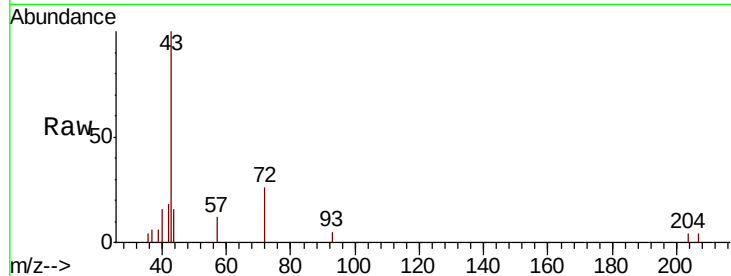
Tgt Ion: 43 Resp: 29836

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

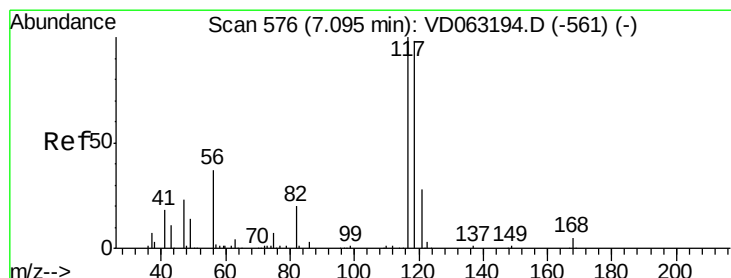
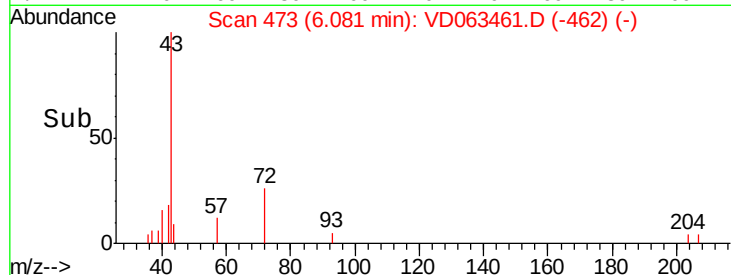
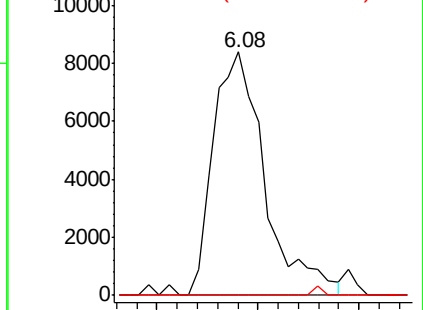
70 0.0 5.1 7.7#



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: 5.539 ug/l

RT: 7.05 min Scan# 571

Delta R.T. -0.05 min

Lab File: VD063461.D

Acq: 9 Aug 2019 3:25

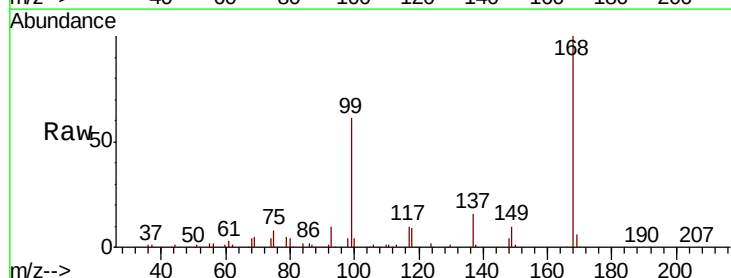
Tgt Ion: 117 Resp: 91906

Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.2#

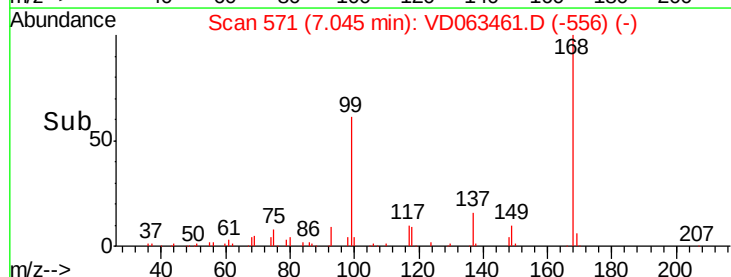
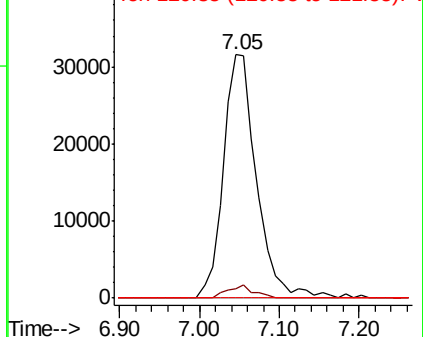
121 0.0 22.1 33.1#

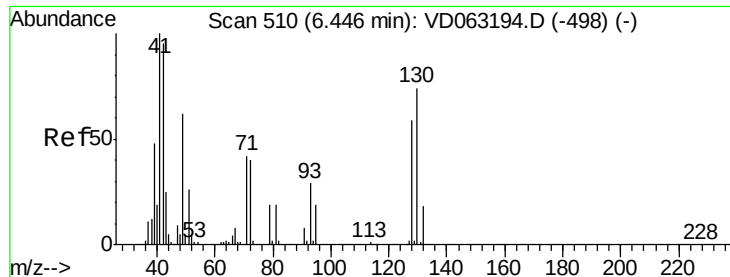


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

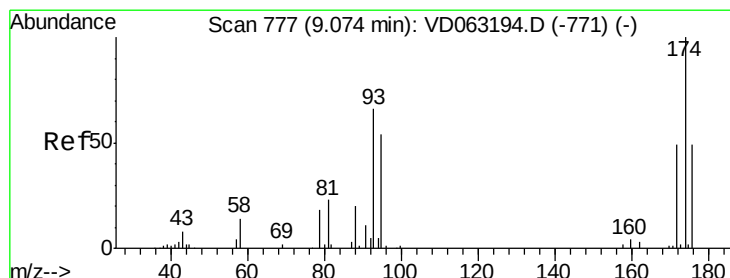
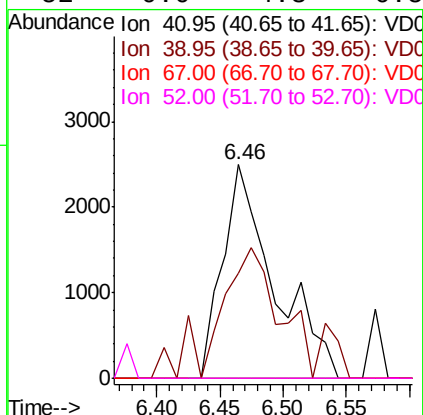
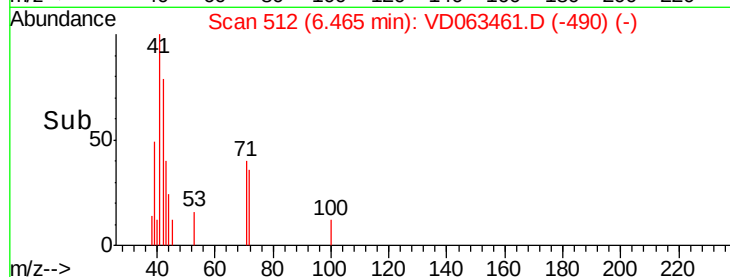
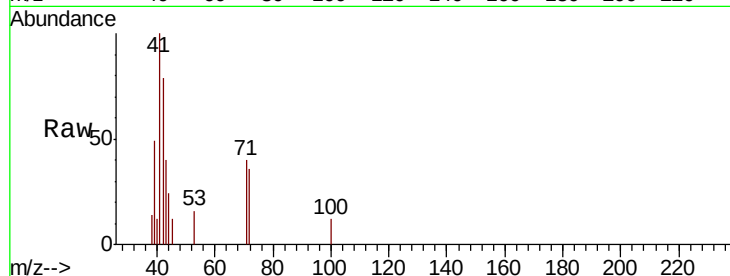




#41
Methacrylonitrile
Concen: 1.195 ug/l
RT: 6.46 min Scan# 512
Delta R.T. 0.02 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

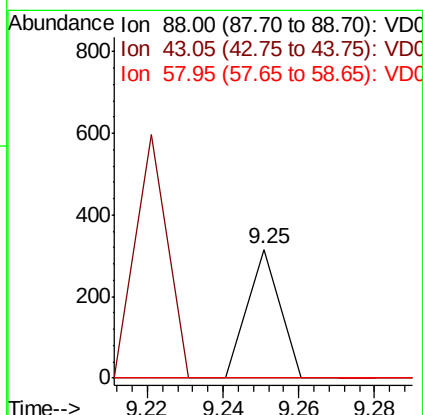
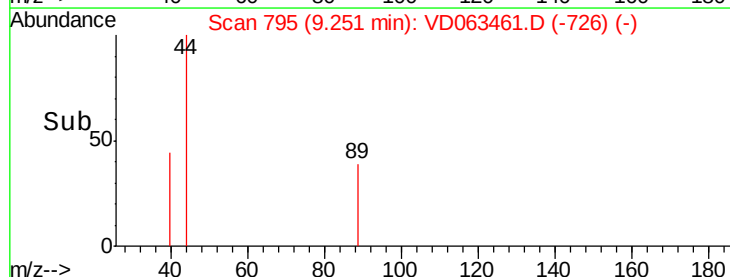
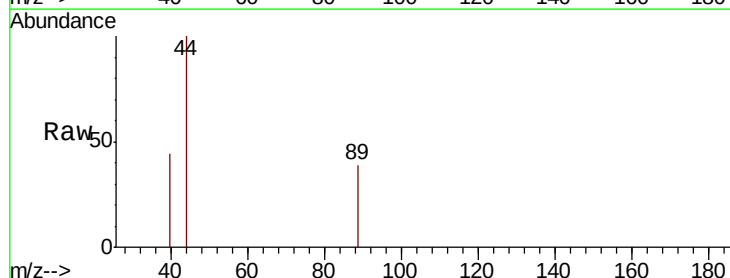
Instrument :
MSVOA_D
ClientSampleId :
SP-15

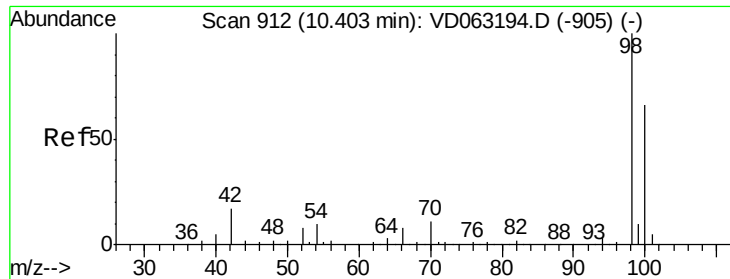
Tgt Ion: 41 Resp: 7079
Ion Ratio Lower Upper
41 100
39 49.3 38.4 57.6
67 0.0 6.7 10.1#
52 0.0 4.3 6.5#



#49
1,4-Dioxane
Concen: 1.270 ug/l
RT: 9.25 min Scan# 795
Delta R.T. 0.18 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

Tgt Ion: 88 Resp: 187
Ion Ratio Lower Upper
88 100
43 0.0 30.7 46.1#
58 0.0 56.5 84.7#

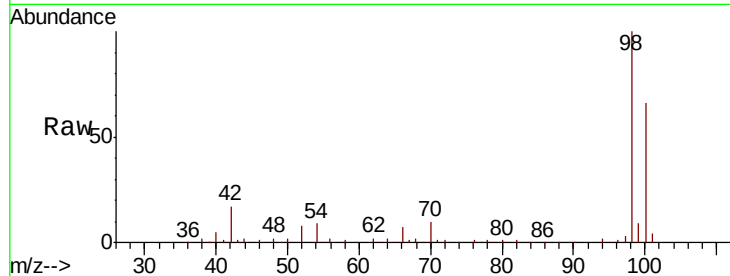




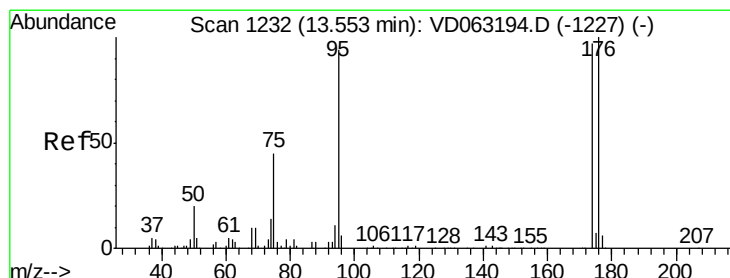
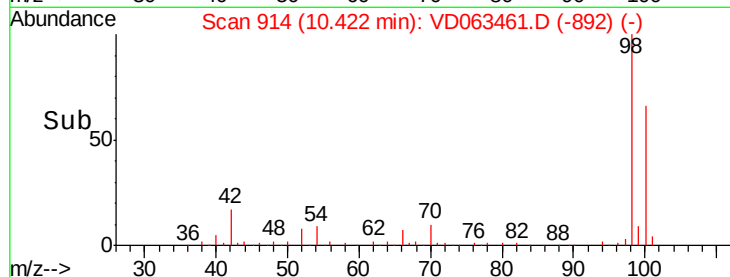
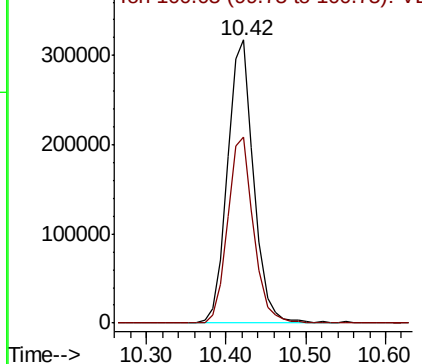
#50
Toluene-d8
Concen: 31.600 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

Instrument :
MSVOA_D
ClientSampleId :
SP-15

Tgt Ion: 98 Resp: 729137
Ion Ratio Lower Upper
98 100
100 65.7 53.2 79.8

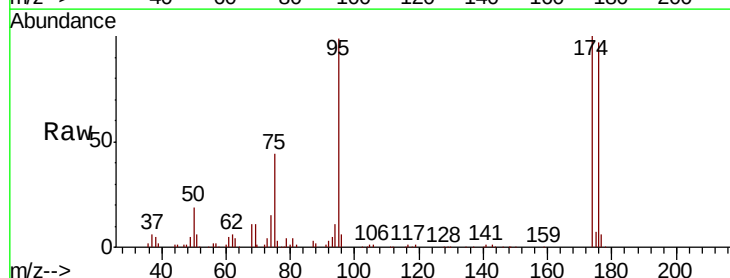


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

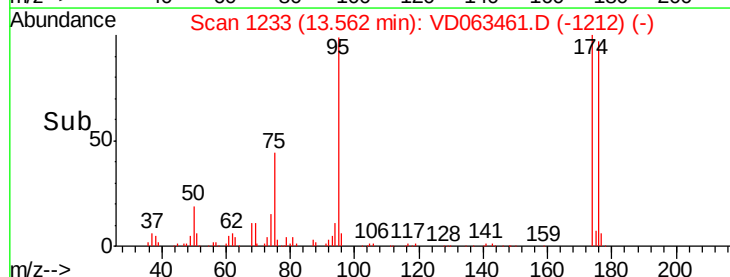
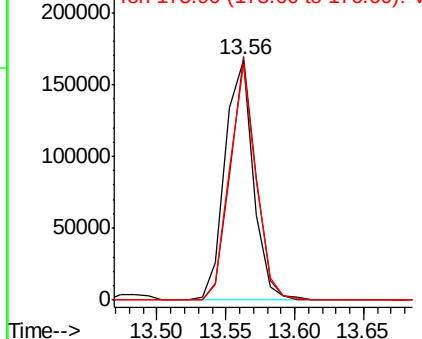


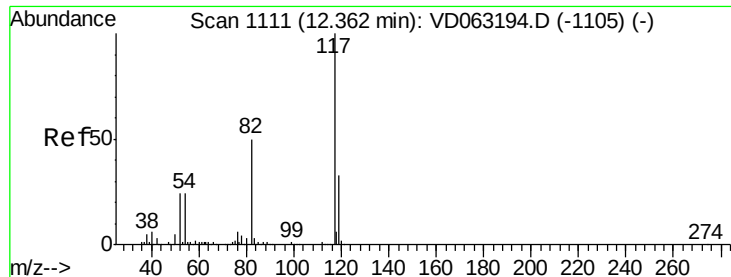
#62
4-Bromofluorobenzene
Concen: 22.621 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.01 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

Tgt Ion: 95 Resp: 237852
Ion Ratio Lower Upper
95 100
174 101.3 0.0 205.4
176 98.0 0.0 211.8



Abundance Ion 95.00 (94.70 to 95.70): VDC
Ion 173.90 (173.60 to 174.60): VDC
Ion 175.90 (175.60 to 176.60): VDC

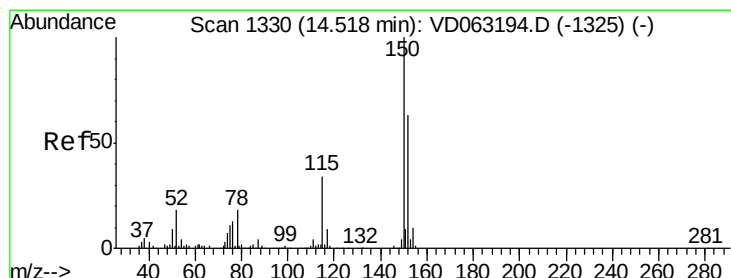
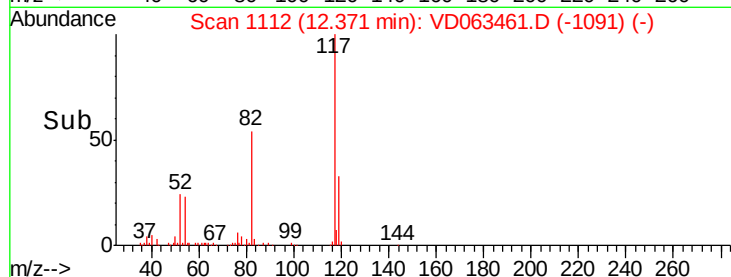
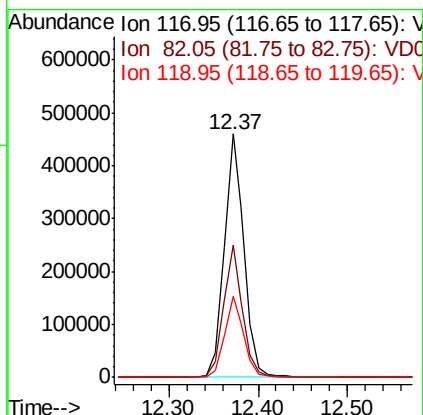
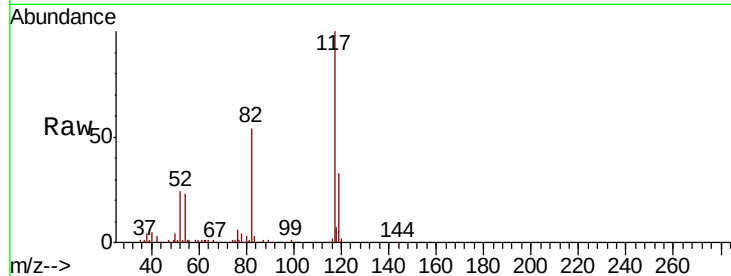




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

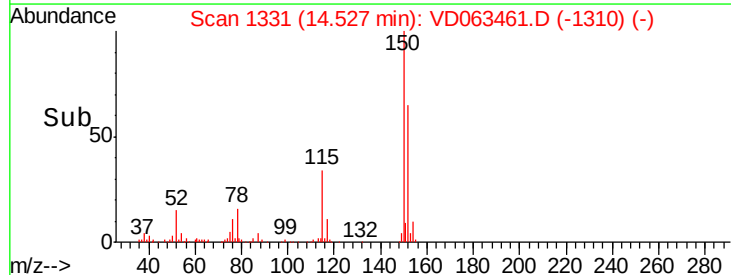
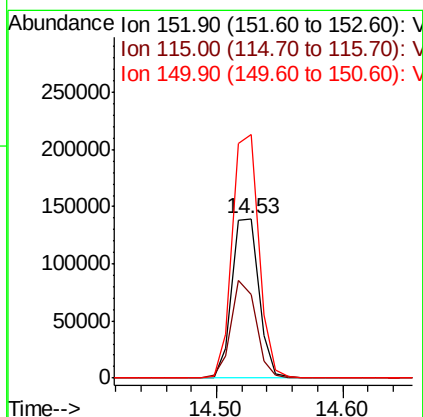
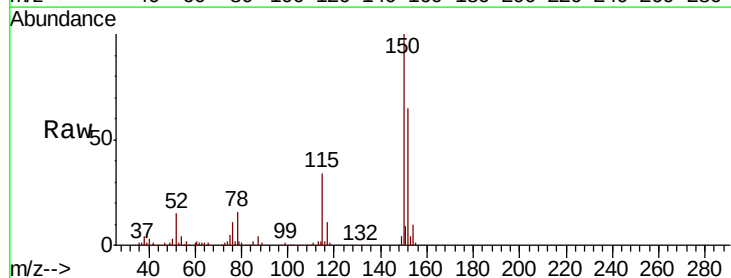
Instrument :
MSVOA_D
ClientSampleId :
SP-15

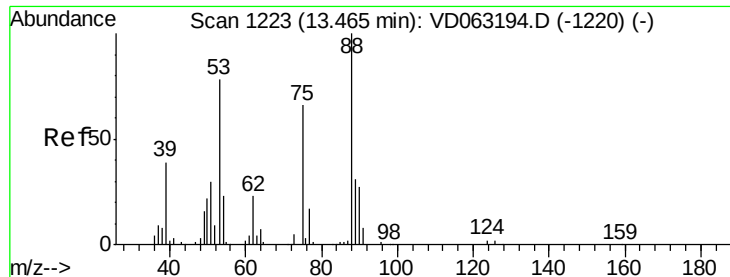
Tgt Ion:117 Resp: 716791
Ion Ratio Lower Upper
117 100
82 54.1 40.1 60.1
119 33.3 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

Tgt Ion:152 Resp: 205084
Ion Ratio Lower Upper
152 100
115 52.5 27.5 82.4
150 152.7 0.0 320.6





#81

trans-1,4-Dichloro-2-butene

Concen: 152.989 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD063461.D

Acq: 9 Aug 2019 3:25

Instrument :

MSVOA_D

ClientSampleID :

SP-15

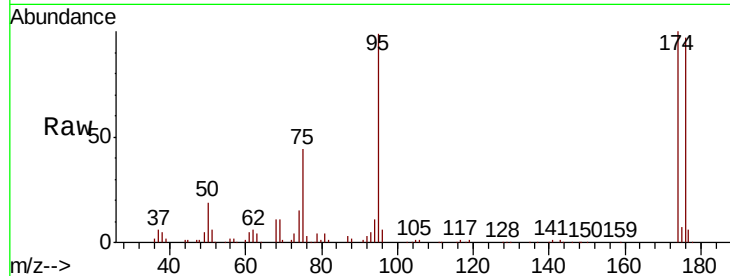
Tgt Ion: 75 Resp: 104647

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

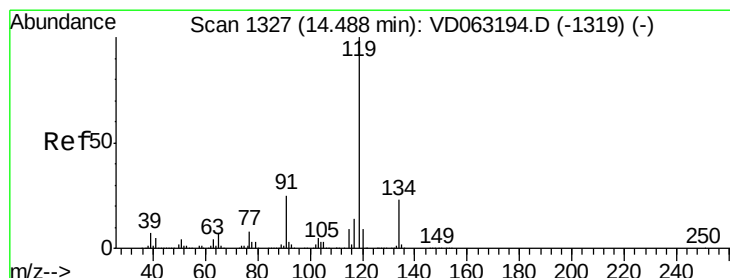
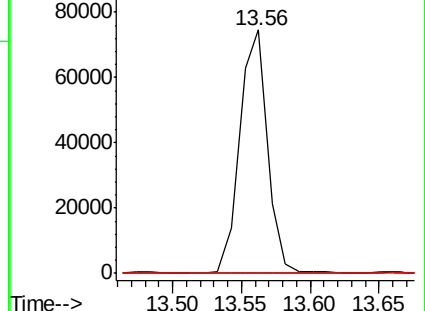
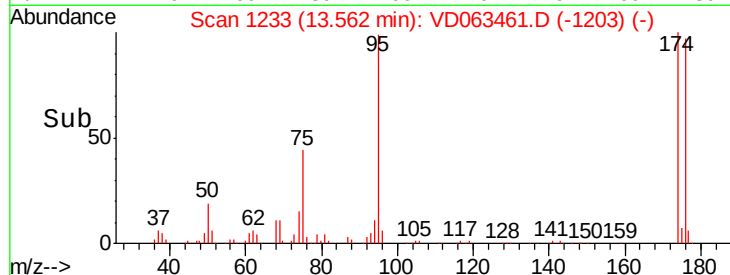
89 0.0 37.4 56.0#



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



#86

p-Isopropyltoluene

Concen: 1.445 ug/l

RT: 14.50 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD063461.D

Acq: 9 Aug 2019 3:25

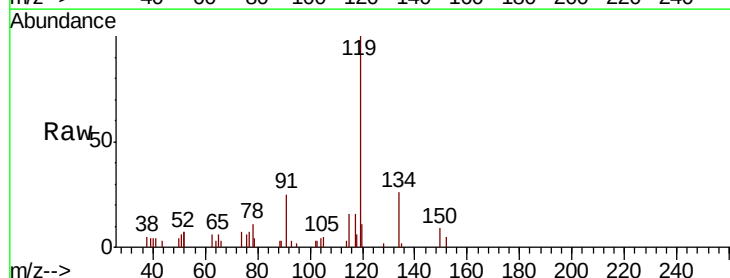
Tgt Ion: 119 Resp: 18421

Ion Ratio Lower Upper

119 100

134 28.3 11.5 34.5

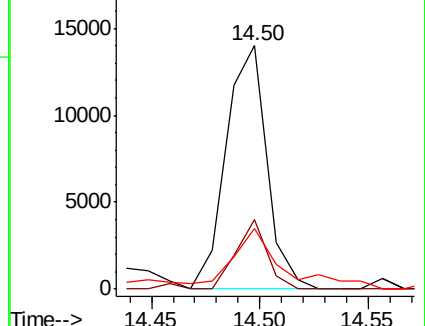
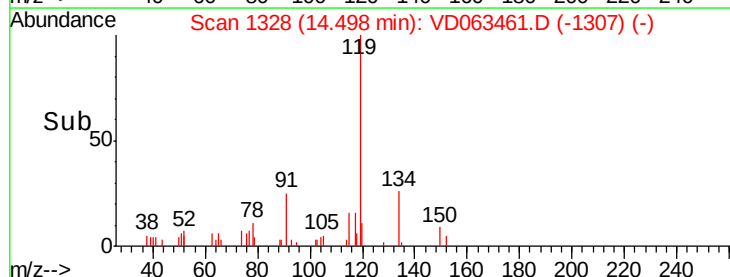
91 25.1 12.6 37.6

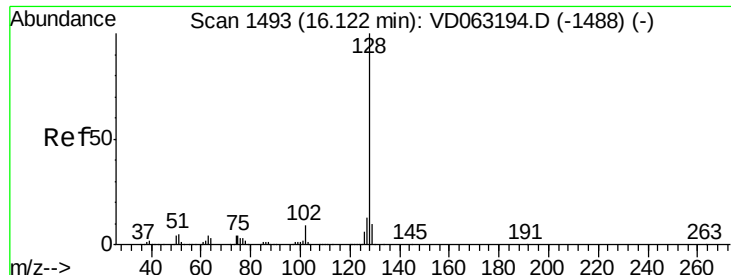


Abundance Ion 119.05 (118.75 to 119.75): VDC

Ion 134.10 (133.80 to 134.80): VDC

Ion 91.00 (90.70 to 91.70): VDC





#95
Naphthalene
Concen: 1.381 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. -0.00 min
Lab File: VD063461.D
Acq: 9 Aug 2019 3:25

Instrument :
MSVOA_D
ClientSampleId :
SP-15

Tgt Ion	Ratio	Lower	Upper
128	100		
127	7.2	10.2	15.4#
129	11.4	7.8	11.8

