

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD080819\
 Data File : VD063456.D
 Acq On : 9 Aug 2019 1:09
 Operator : JC/SY
 Sample : K4223-20
 Misc : 5.62g/5ml/MSVOA_D/SOIL
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SP-10

Quant Time: Aug 09 07:03:18 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	7.06	168	967432	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	1333926	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	860793	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.53	152	254433	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	483081	45.00	ug/l	0.02
Spiked Amount			Recovery	=	90.00%	
35) Dibromofluoromethane	6.94	113	491690	43.17	ug/l	0.03
Spiked Amount			Recovery	=	86.34%	
50) Toluene-d8	10.42	98	920640	36.12	ug/l	0.02
Spiked Amount			Recovery	=	72.24%	
62) 4-Bromofluorobenzene	13.56	95	278838	24.01	ug/l	0.00
Spiked Amount			Recovery	=	48.02%	

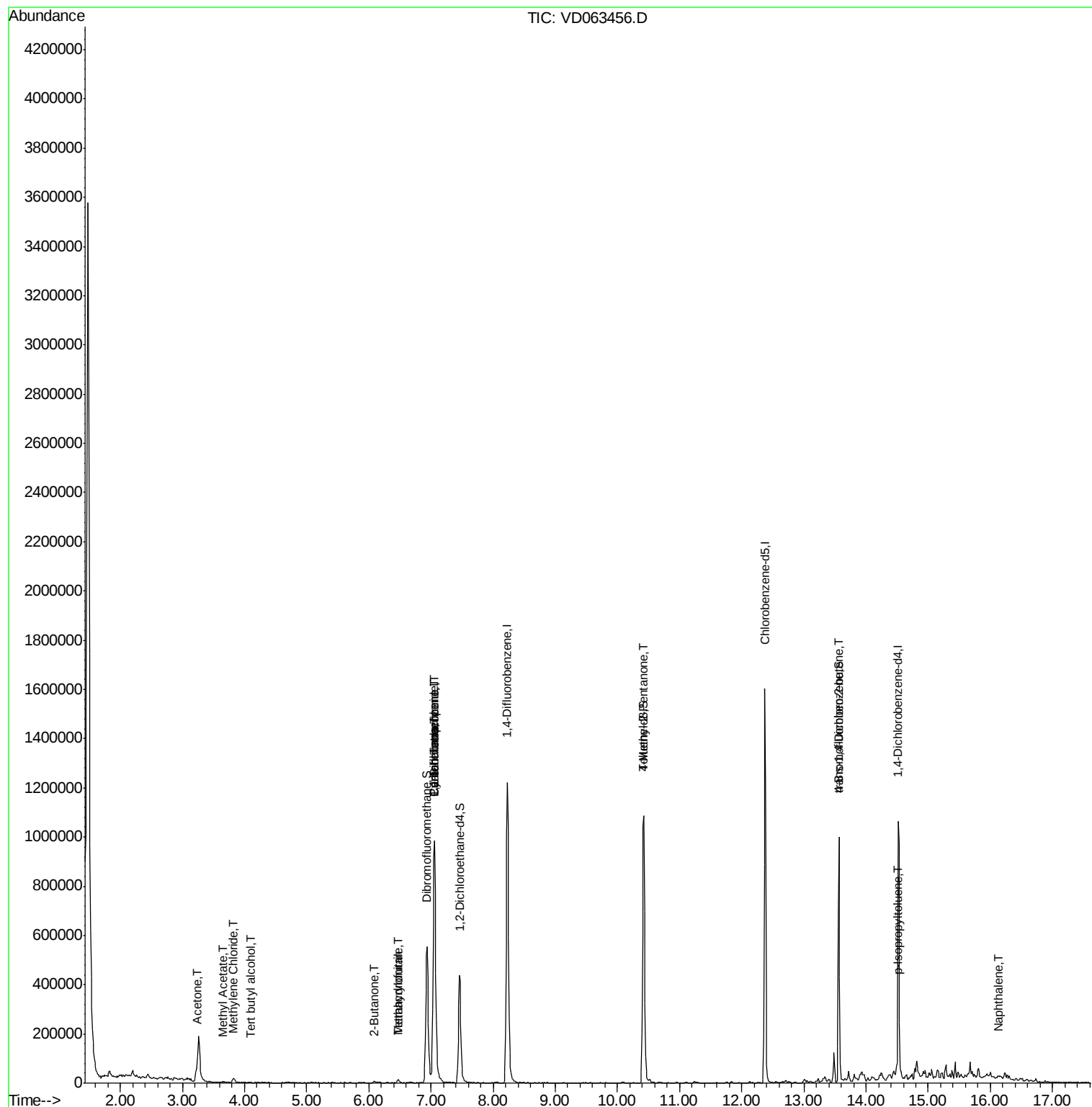
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.10	59	485	1.030	ug/l #	69
16) Acetone	3.23	43	95517	45.669	ug/l	94
18) Methyl Acetate	3.66	43	8074	2.010	ug/l #	60
20) Methylene Chloride	3.83	84	11084	1.311	ug/l #	77
25) 2-Butanone	6.08	43	14930	7.113	ug/l #	83
29) Tetrahydrofuran	6.48	42	7628	7.676	ug/l #	82
31) Cyclohexane	7.06	56	19644	2.054	ug/l #	23
36) 1,1-Dichloropropene	7.05	75	74784	6.143	ug/l #	52
38) Carbon Tetrachloride	7.06	117	95145	5.191	ug/l #	14
41) Methacrylonitrile	6.48	41	7040	1.076	ug/l #	79
51) 4-Methyl-2-Pentanone	10.41	43	5203	1.095	ug/l #	1
81) trans-1,4-Dichloro-2-buten	13.56	75	129802	152.959	ug/l #	3
86) p-Isopropyltoluene	14.50	119	26946	1.704	ug/l	96
95) Naphthalene	16.13	128	9600	1.220	ug/l #	88

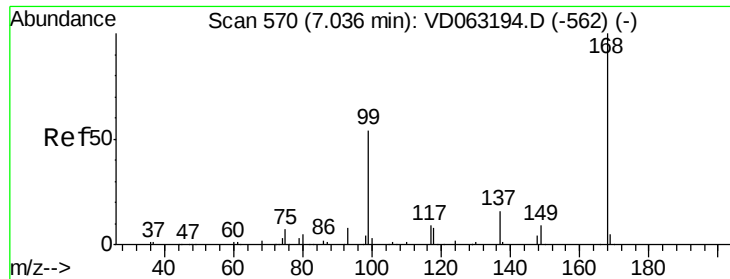
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.02 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA_D

ClientSampleId :

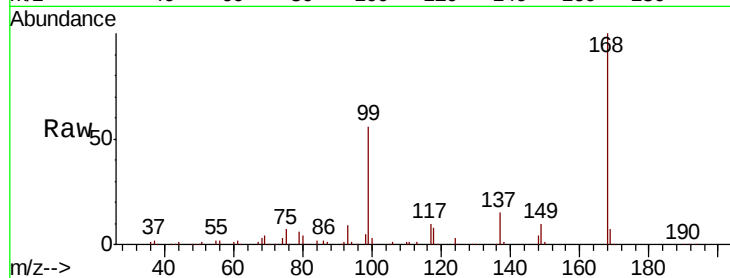
SP-10

Tgt Ion:168 Resp: 967432

Ion Ratio Lower Upper

168 100

99 55.5 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

400000

300000

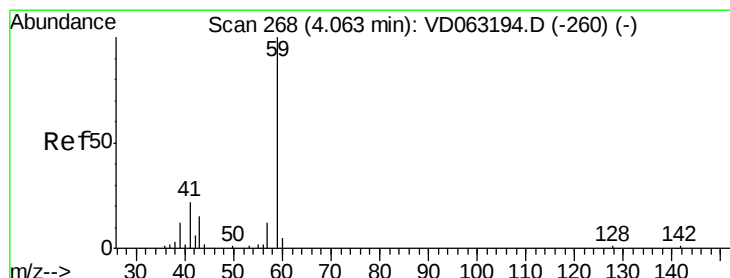
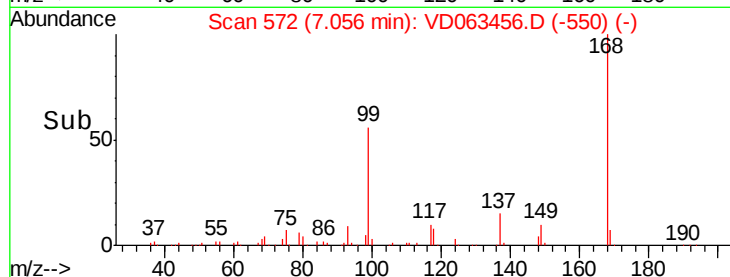
200000

100000

0

Time-->

6.90 7.00 7.10 7.20



#11

Tert butyl alcohol

Concen: 1.030 ug/l

RT: 4.10 min Scan# 272

Delta R.T. 0.04 min

Lab File: VD063456.D

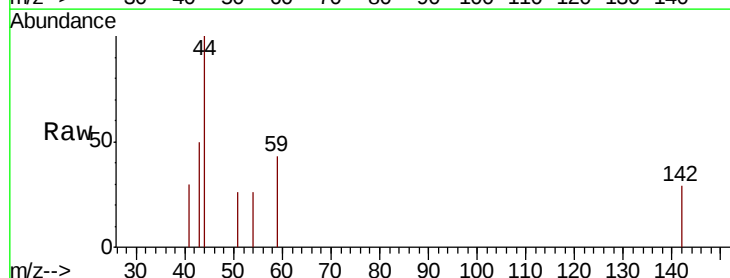
Acq: 9 Aug 2019 1:09

Tgt Ion: 59 Resp: 485

Ion Ratio Lower Upper

59 100

57 0.0 9.6 14.4#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

600

500

400

300

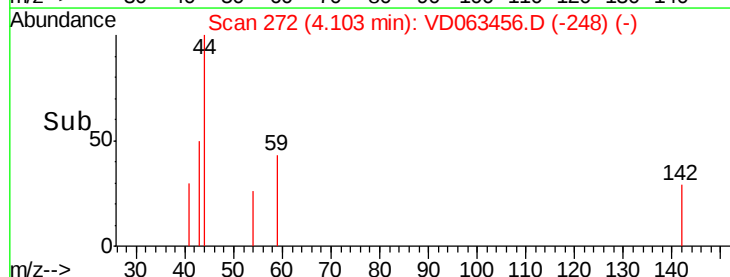
200

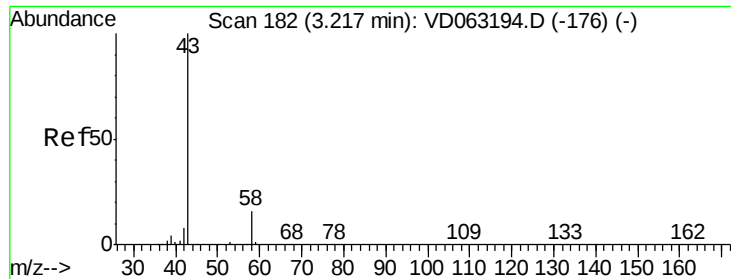
100

0

Time-->

4.05 4.10





#16

Acetone

Concen: 45.669 ug/l

RT: 3.23 min Scan# 183

Delta R.T. 0.01 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA_D

ClientSampleId :

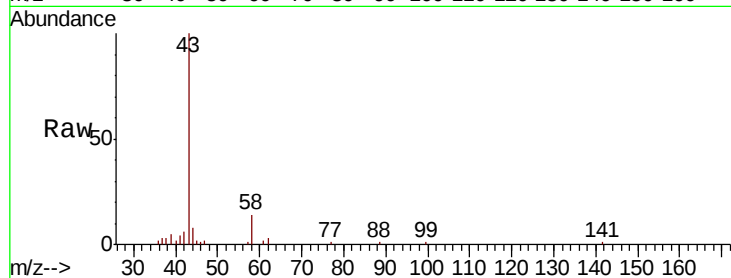
SP-10

Tgt Ion: 43 Resp: 95517

Ion Ratio Lower Upper

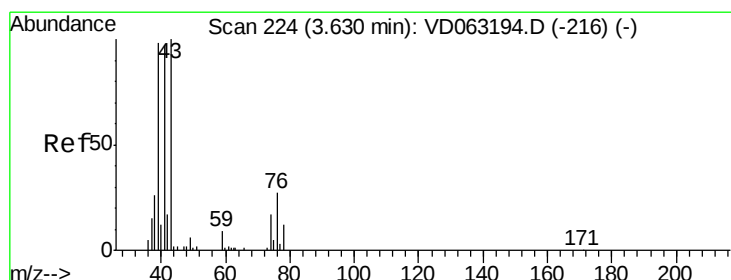
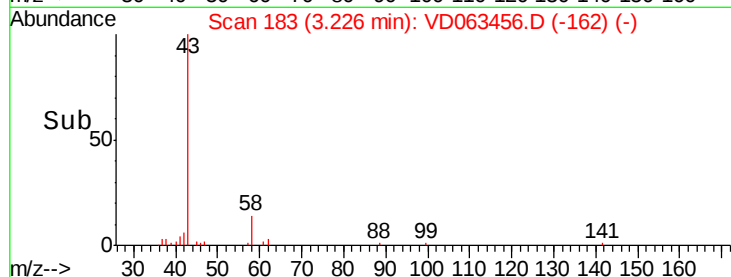
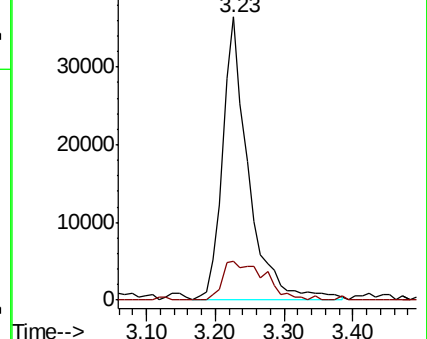
43 100

58 13.7 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: 2.010 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.03 min

Lab File: VD063456.D

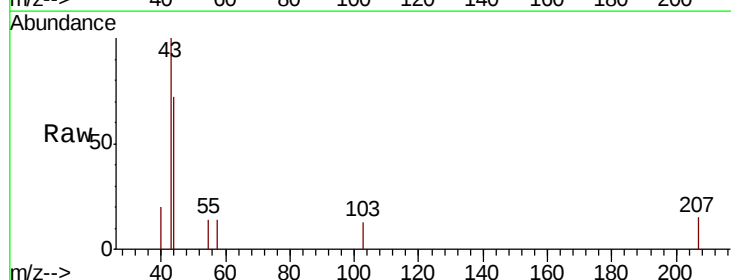
Acq: 9 Aug 2019 1:09

Tgt Ion: 43 Resp: 8074

Ion Ratio Lower Upper

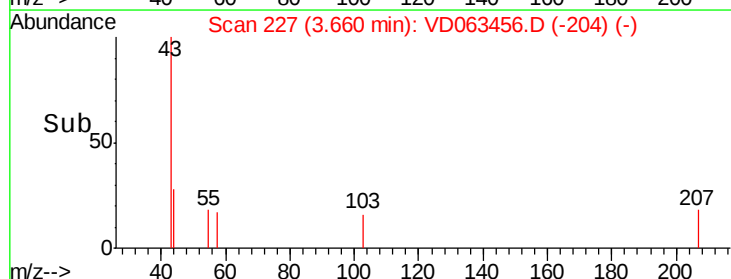
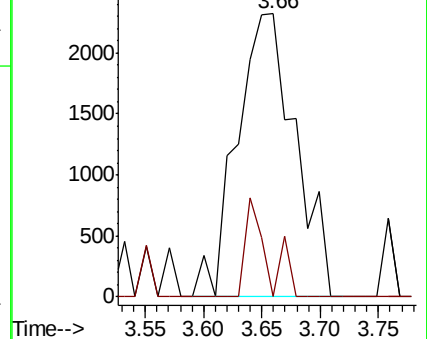
43 100

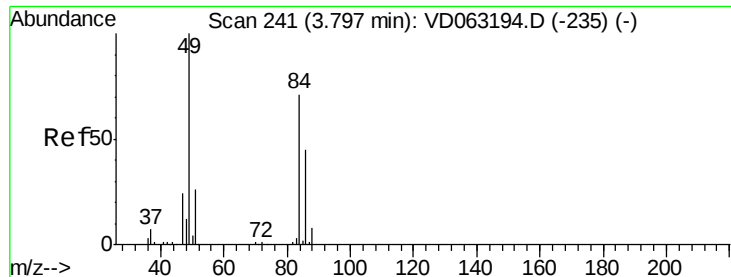
74 0.0 13.8 20.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: 1.311 ug/l

RT: 3.83 min Scan# 244

Delta R.T. 0.03 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA_D

ClientSampleId :

SP-10

Tgt Ion: 84 Resp: 11084

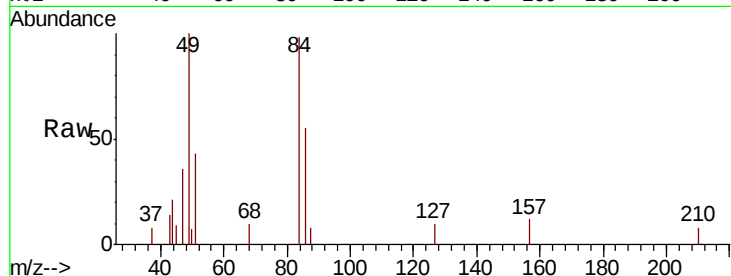
Ion Ratio Lower Upper

84 100

49 101.7 112.5 168.7#

51 43.7 29.6 44.4

86 55.6 50.4 75.6

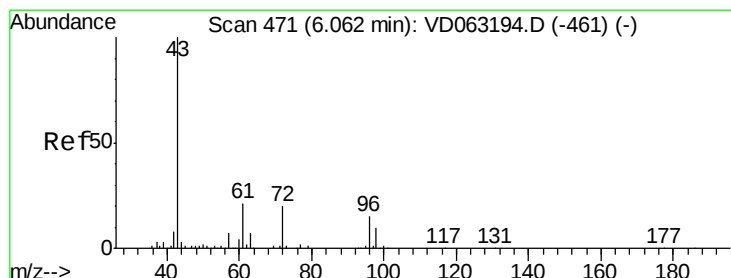
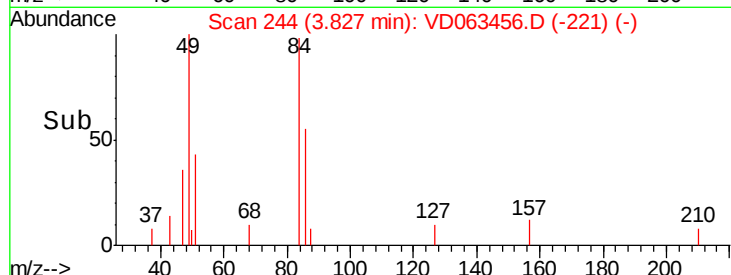
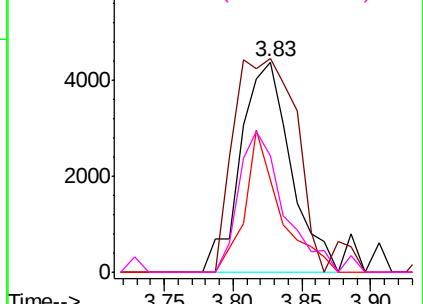


Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 7.113 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.02 min

Lab File: VD063456.D

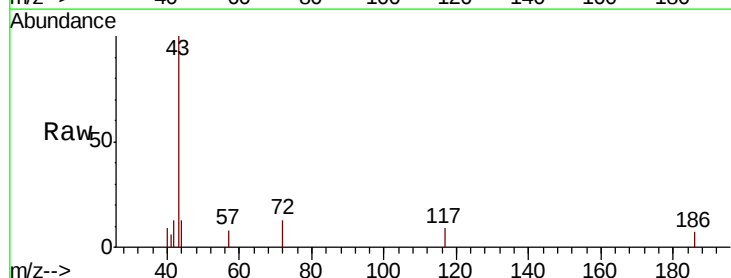
Acq: 9 Aug 2019 1:09

Tgt Ion: 43 Resp: 14930

Ion Ratio Lower Upper

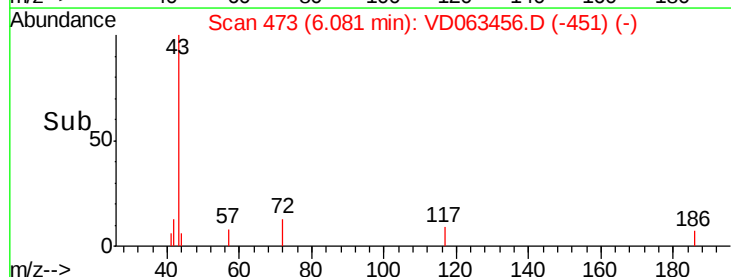
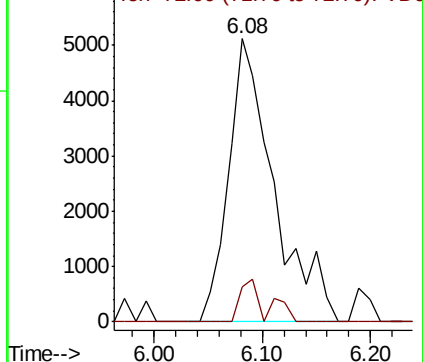
43 100

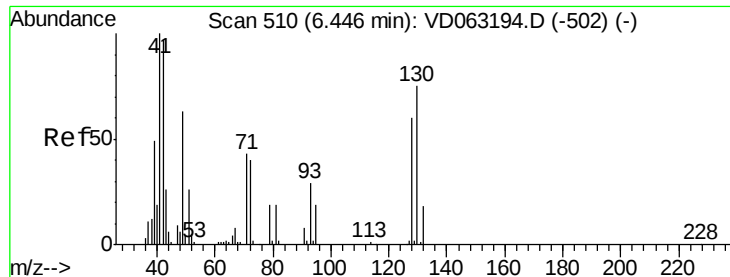
72 12.5 16.3 24.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC





#29

Tetrahydrofuran

Concen: 7.676 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.03 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA_D

ClientSampleId :

SP-10

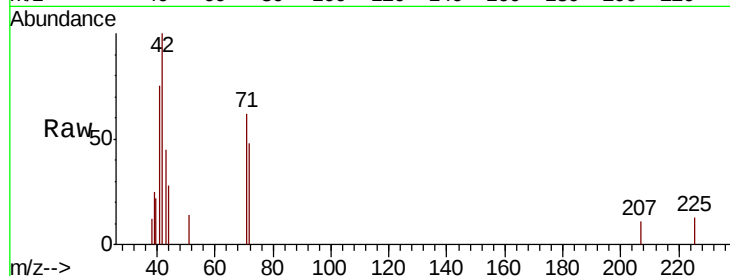
Tgt Ion: 42 Resp: 7628

Ion Ratio Lower Upper

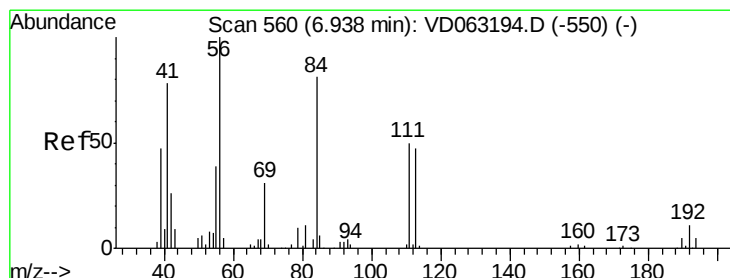
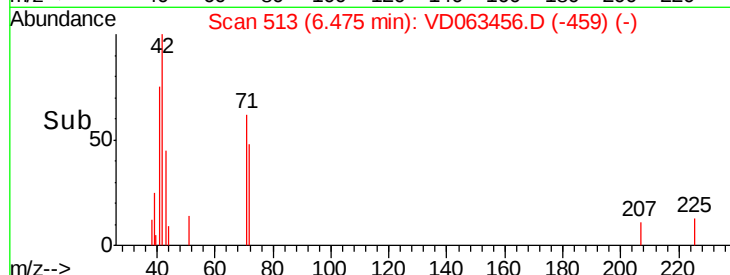
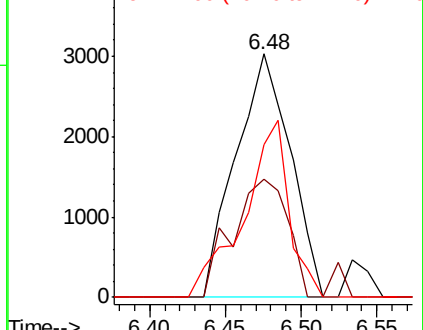
42 100

72 49.1 33.4 50.2

71 60.1 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: 2.054 ug/l

RT: 7.06 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

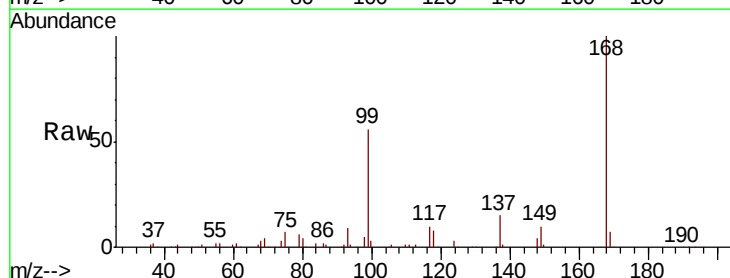
Tgt Ion: 56 Resp: 19644

Ion Ratio Lower Upper

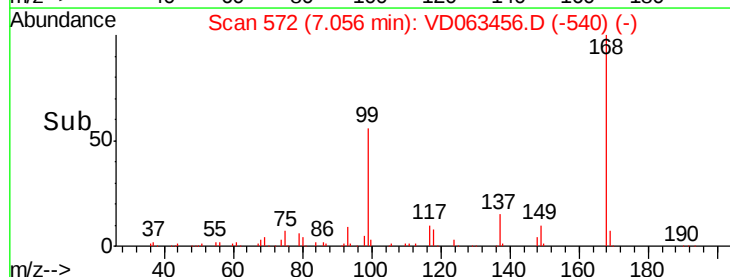
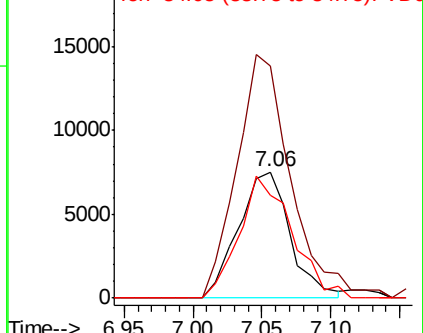
56 100

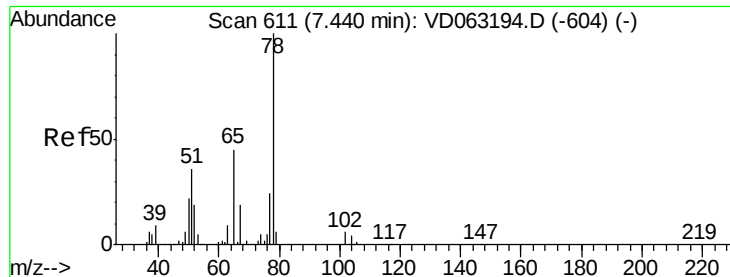
69 184.2 24.5 36.7#

84 81.0 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: 45.002 ug/l

RT: 7.46 min Scan# 613

Delta R.T. 0.02 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA_D

ClientSampleId :

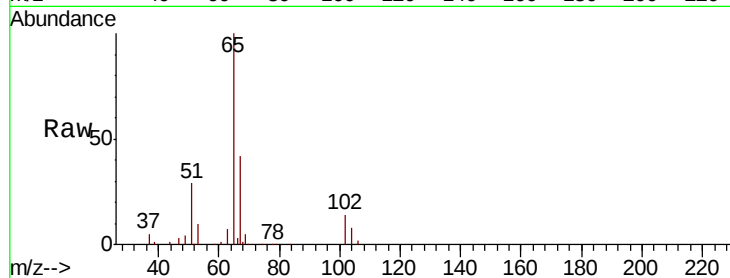
SP-10

Tgt Ion: 65 Resp: 483081

Ion Ratio Lower Upper

65 100

67 42.4 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

200000

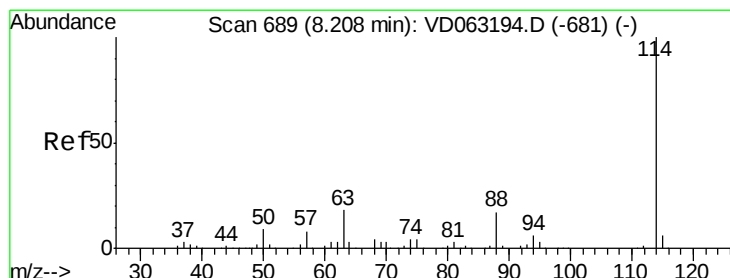
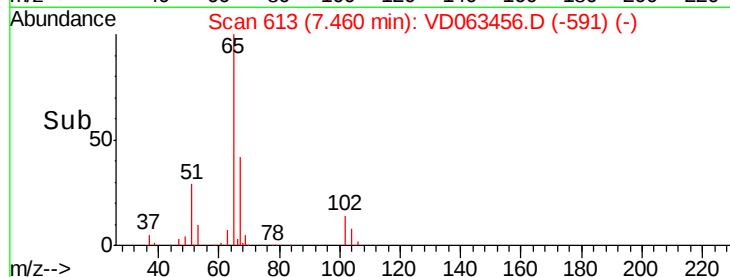
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 691

Delta R.T. 0.02 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

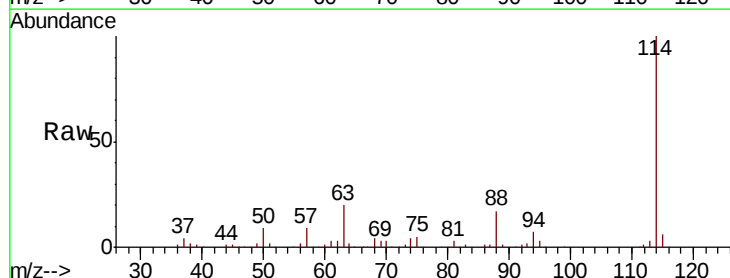
Tgt Ion: 114 Resp: 1333926

Ion Ratio Lower Upper

114 100

63 20.2 0.0 35.2

88 16.8 0.0 34.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.23

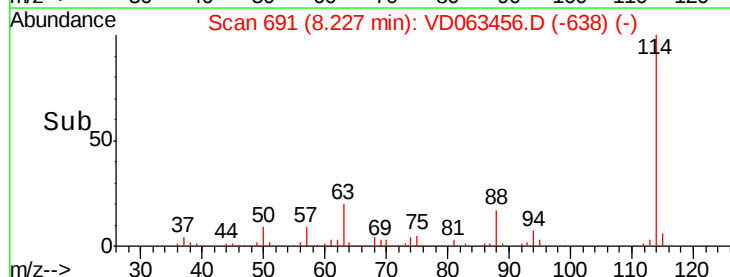
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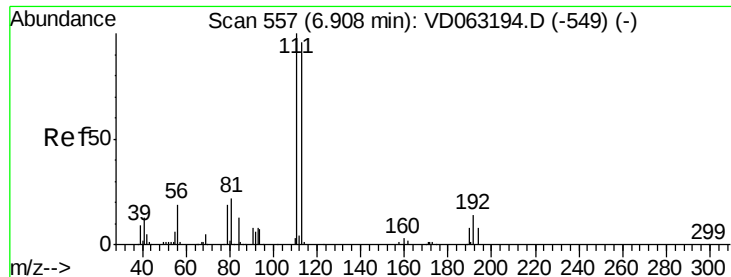
400000

200000

0

Time--> 8.10 8.20 8.30 8.40

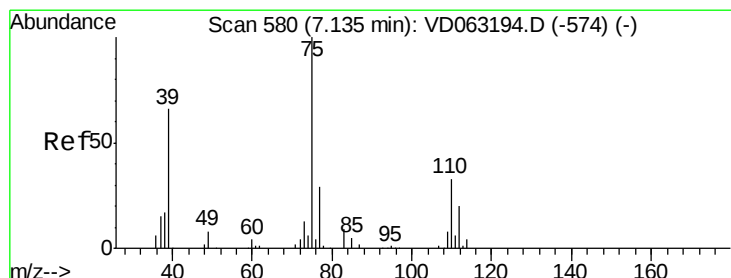
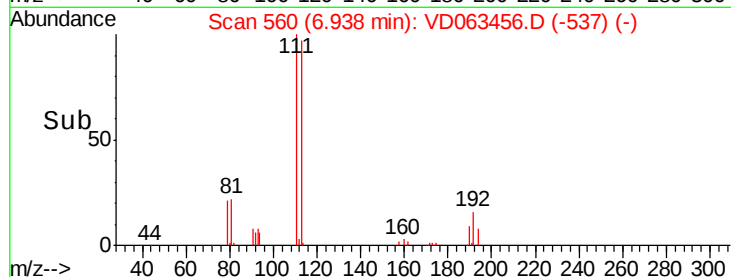
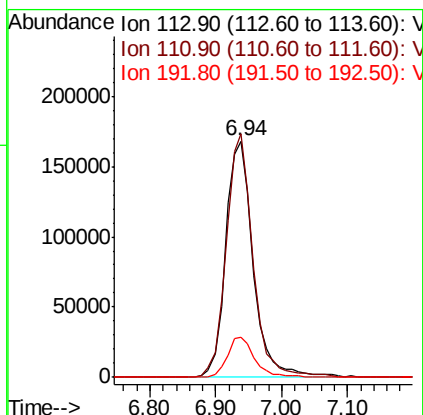
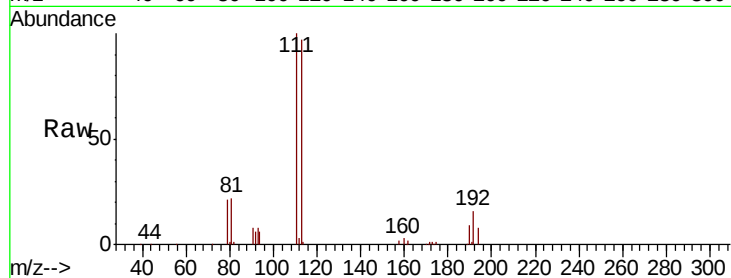




#35
 Dibromofluoromethane
 Concen: 43.173 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.03 min
 Lab File: VD063456.D
 Acq: 9 Aug 2019 1:09

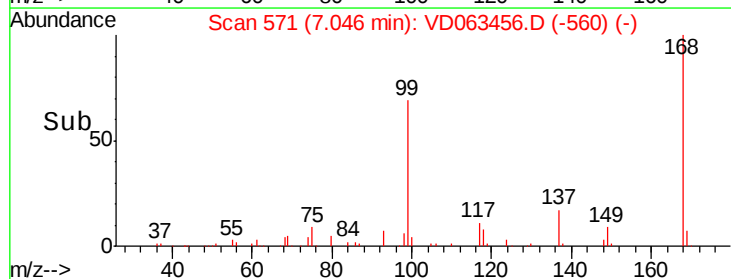
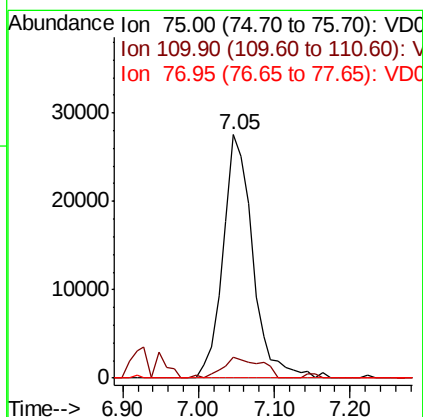
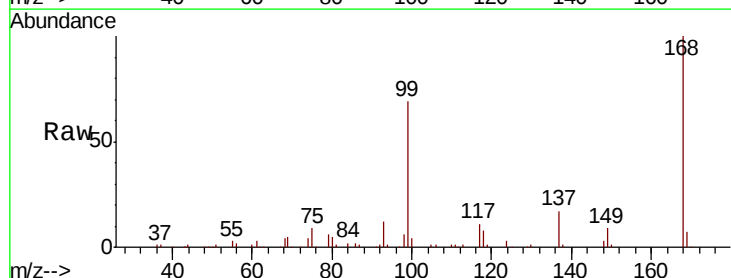
Instrument :
 MSVOA_D
 ClientSampleId :
 SP-10

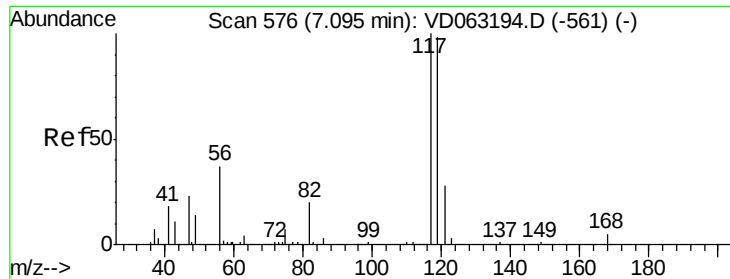
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	83.2	124.8
192	17.0	11.8	17.8



#36
 1,1-Dichloropropene
 Concen: 6.143 ug/l
 RT: 7.05 min Scan# 571
 Delta R.T. -0.09 min
 Lab File: VD063456.D
 Acq: 9 Aug 2019 1:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	16.1	48.2#
77	0.0	22.7	34.1#

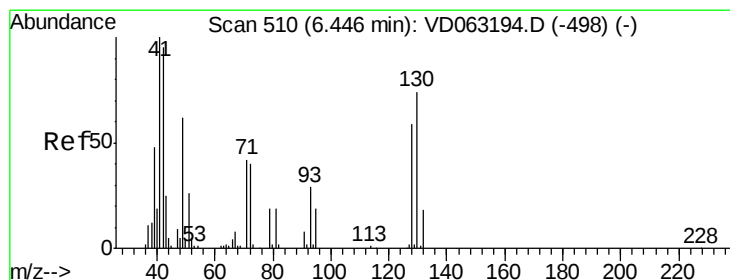
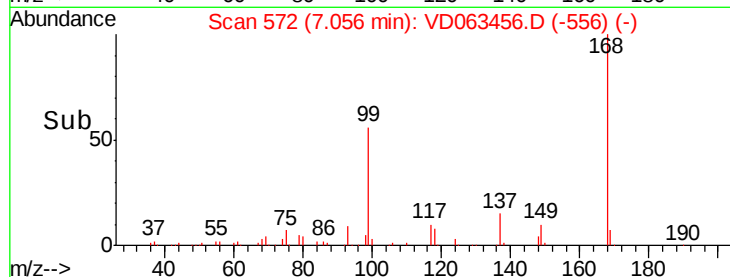
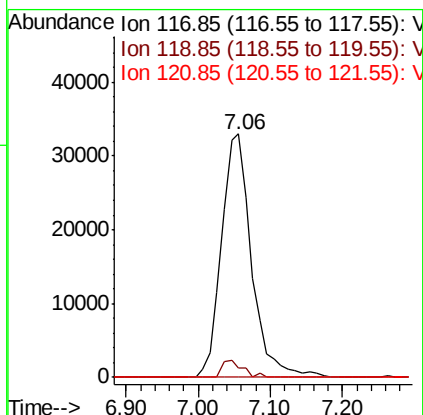
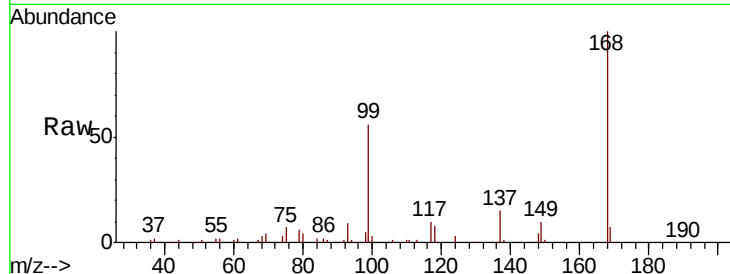




#38
Carbon Tetrachloride
Concen: 5.191 ug/l
RT: 7.06 min Scan# 572
Delta R.T. -0.04 min
Lab File: VD063456.D
Acq: 9 Aug 2019 1:09

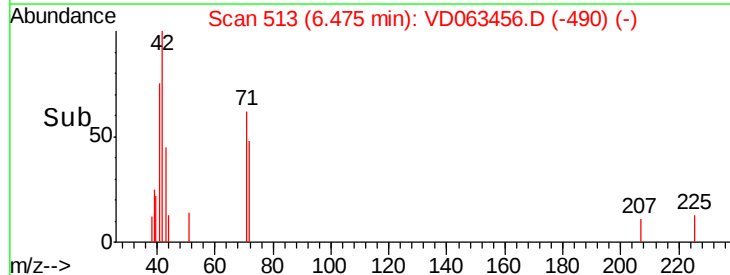
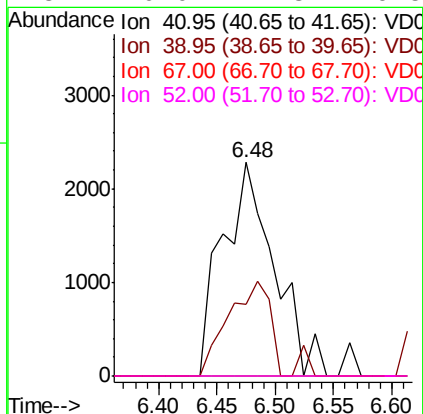
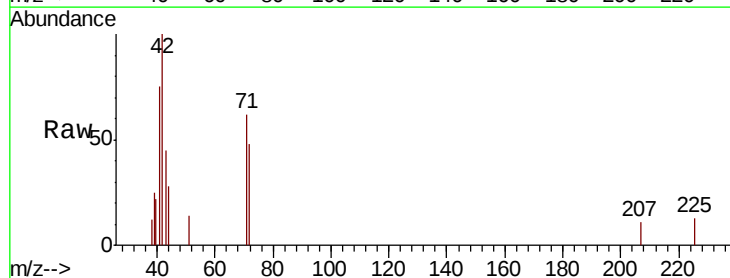
Instrument :
MSVOA_D
ClientSampleId :
SP-10

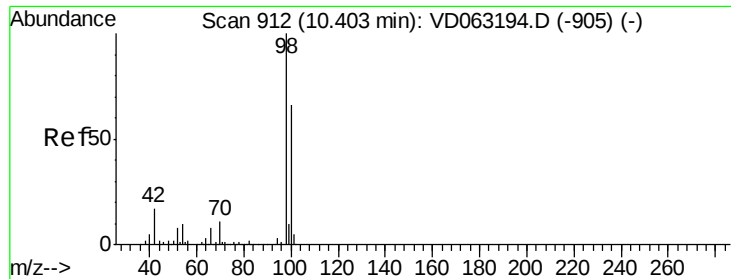
Tgt Ion: 117 Resp: 95145
Ion Ratio Lower Upper
117 100
119 3.9 78.2 117.2#
121 0.0 22.1 33.1#



#41
Methacrylonitrile
Concen: 1.076 ug/l
RT: 6.48 min Scan# 513
Delta R.T. 0.03 min
Lab File: VD063456.D
Acq: 9 Aug 2019 1:09

Tgt Ion: 41 Resp: 7040
Ion Ratio Lower Upper
41 100
39 33.5 38.4 57.6#
67 0.0 6.7 10.1#
52 0.0 4.3 6.5#

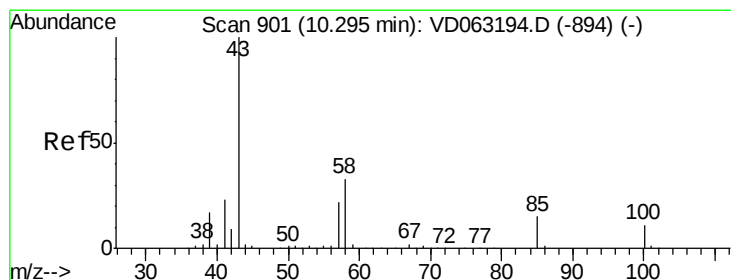
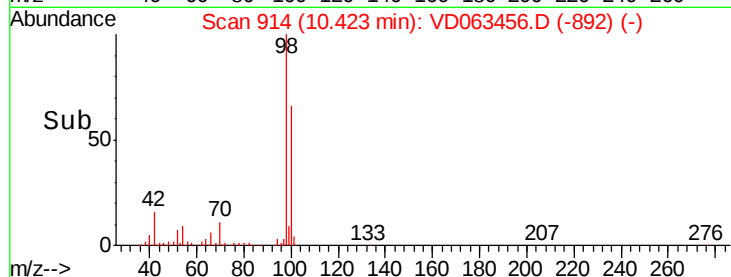
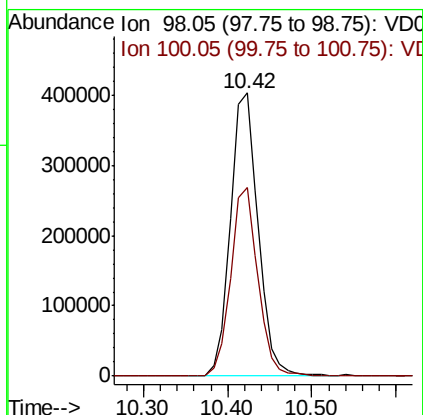
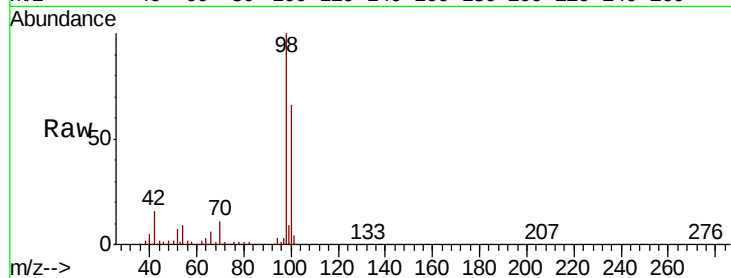




#50
Toluene-d8
Concen: 36.120 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD063456.D
Acq: 9 Aug 2019 1:09

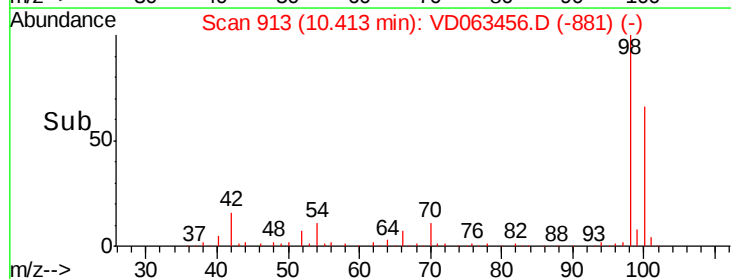
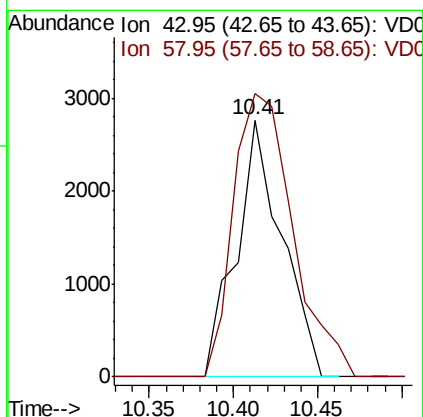
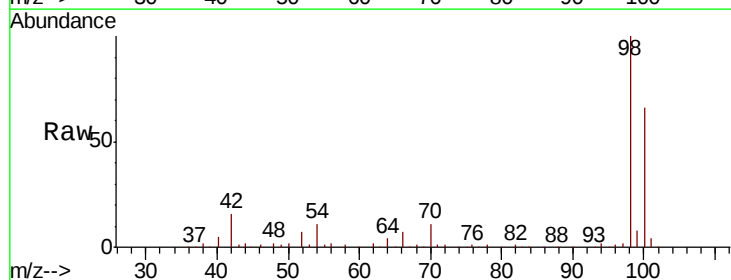
Instrument :
MSVOA_D
ClientSampleId :
SP-10

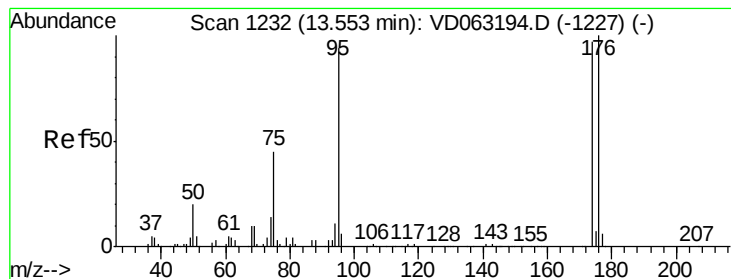
Tgt Ion: 98 Resp: 920640
Ion Ratio Lower Upper
98 100
100 66.5 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 1.095 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.12 min
Lab File: VD063456.D
Acq: 9 Aug 2019 1:09

Tgt Ion: 43 Resp: 5203
Ion Ratio Lower Upper
43 100
58 110.2 26.2 39.2#





#62

4-Bromofluorobenzene

Concen: 24.007 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA_D

ClientSampled :

SP-10

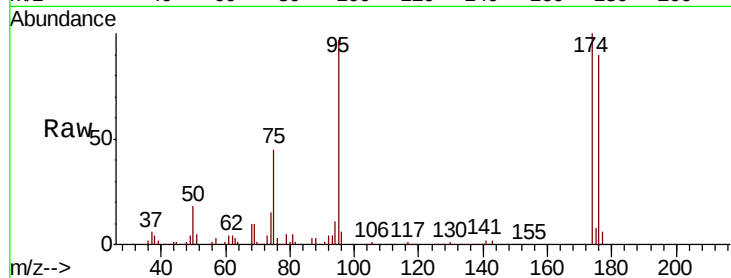
Tgt Ion: 95 Resp: 278838

Ion Ratio Lower Upper

95 100

174 102.6 0.0 205.4

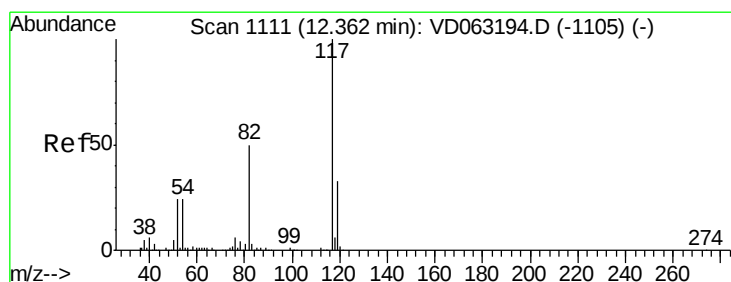
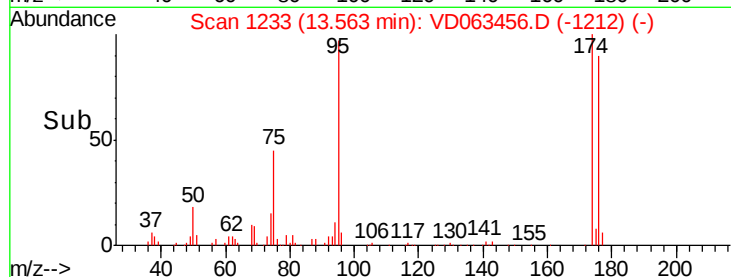
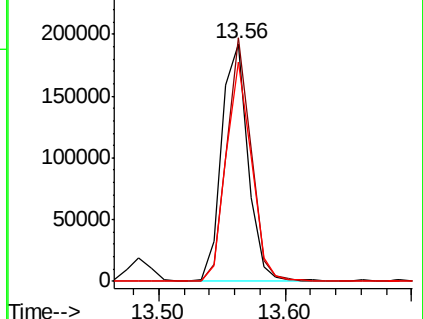
176 92.5 0.0 211.8



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# 1112

Delta R.T. 0.01 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

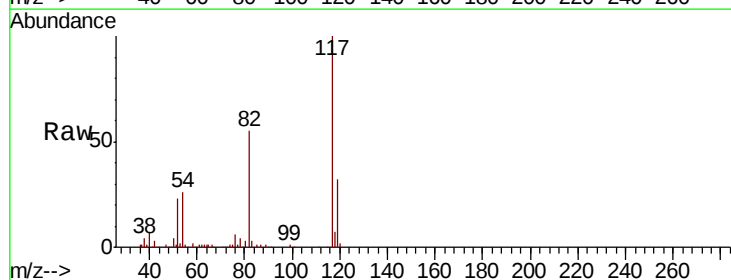
Tgt Ion: 117 Resp: 860793

Ion Ratio Lower Upper

117 100

82 55.4 40.1 60.1

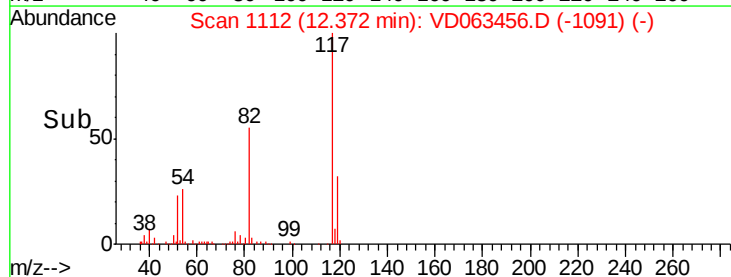
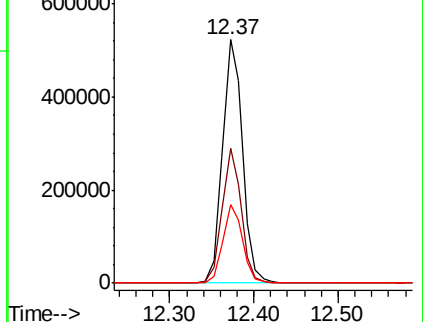
119 32.4 26.5 39.7

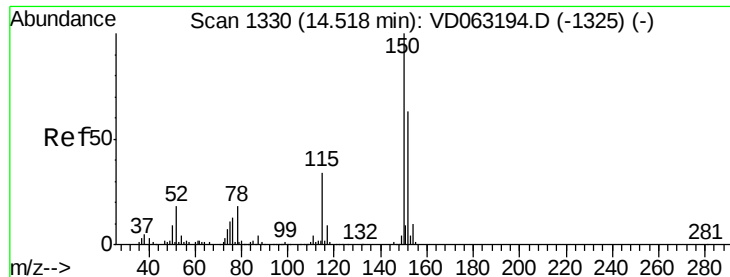


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.53 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

Instrument :

MSVOA_D

ClientSampleId :

SP-10

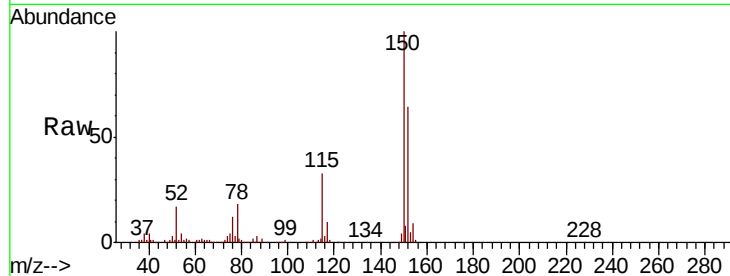
Tgt Ion:152 Resp: 254433

Ion Ratio Lower Upper

152 100

115 51.7 27.5 82.4

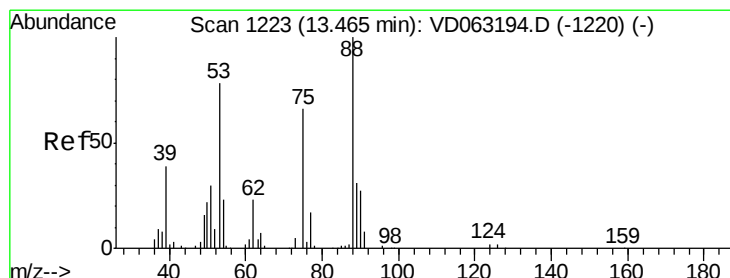
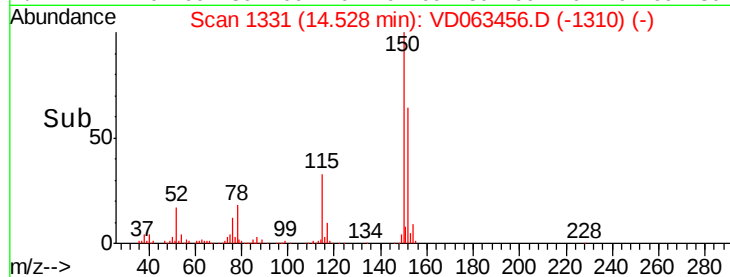
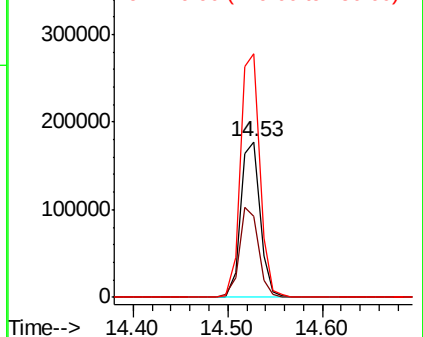
150 156.3 0.0 320.6



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



#81

trans-1,4-Dichloro-2-butene

Concen: 152.959 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.10 min

Lab File: VD063456.D

Acq: 9 Aug 2019 1:09

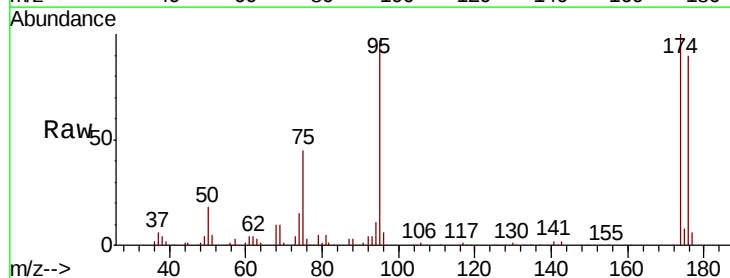
Tgt Ion: 75 Resp: 129802

Ion Ratio Lower Upper

75 100

53 0.0 94.9 142.3#

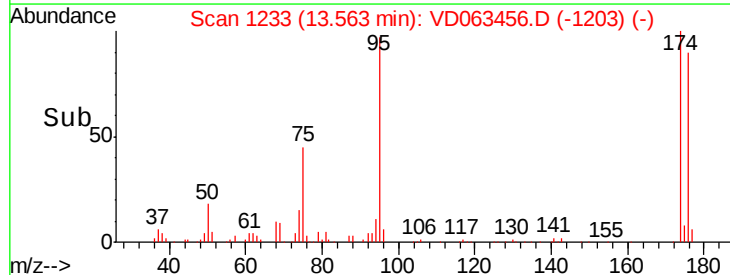
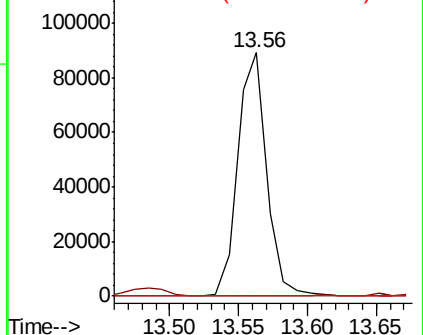
89 0.0 37.4 56.0#

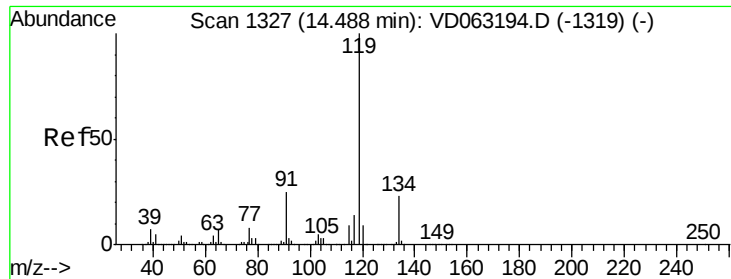


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

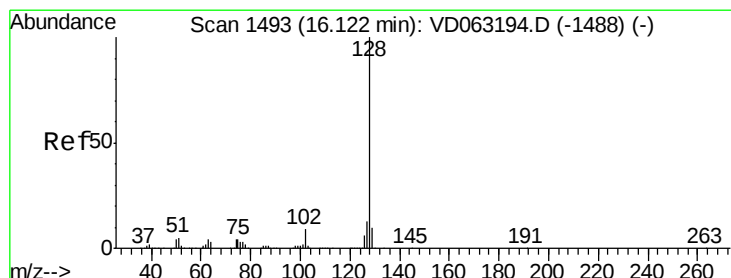
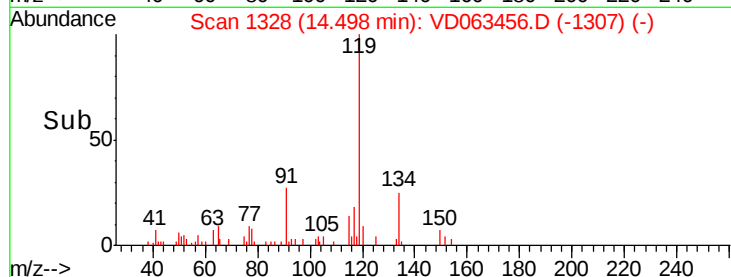
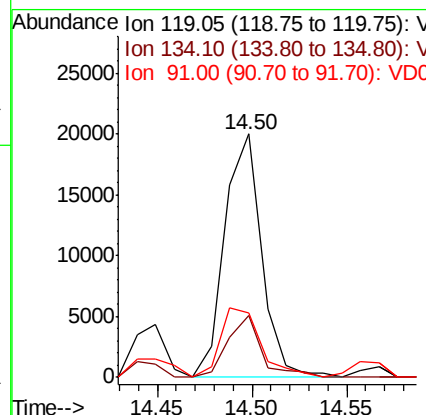
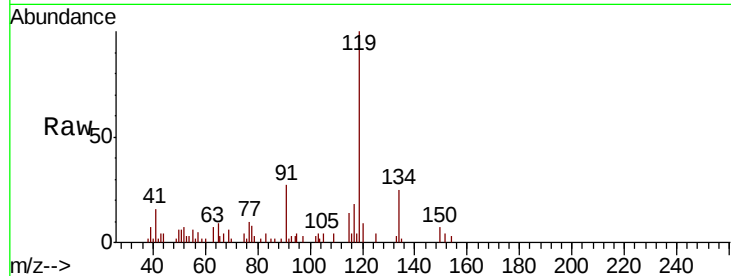




#86
p-Isopropyltoluene
Concen: 1.704 ug/l
RT: 14.50 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD063456.D
Acq: 9 Aug 2019 1:09

Instrument :
MSVOA_D
ClientSampled :
SP-10

Tgt Ion:119 Resp: 26946
Ion Ratio Lower Upper
119 100
134 25.5 11.5 34.5
91 26.6 12.6 37.6



#95
Naphthalene
Concen: 1.220 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. 0.01 min
Lab File: VD063456.D
Acq: 9 Aug 2019 1:09

Tgt Ion:128 Resp: 9600
Ion Ratio Lower Upper
128 100
127 15.5 10.2 15.4#
129 16.3 7.8 11.8#

