

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\
 Data File : VD061822.D
 Acq On : 16 Apr 2019 20:46
 Operator : VA/AP
 Sample : K2199-11
 Misc : 6.42g/5ml/MSVOA D/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 17 00:59:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D041519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 08:53:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	478307	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	8.22	114	826421	50.00	ug/l	-0.04
63) Chlorobenzene-d5	12.37	117	650514	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	14.52	152	297944	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	201905	50.37	ug/l	-0.04
Spiked Amount			Recovery	=	100.74%	
35) Dibromofluoromethane	6.93	113	299548	47.98	ug/l	-0.04
Spiked Amount			Recovery	=	95.96%	
50) Toluene-d8	10.41	98	640805	43.32	ug/l	-0.04
Spiked Amount			Recovery	=	86.64%	
62) 4-Bromofluorobenzene	13.56	95	247138	41.22	ug/l	-0.02
Spiked Amount			Recovery	=	82.44%	

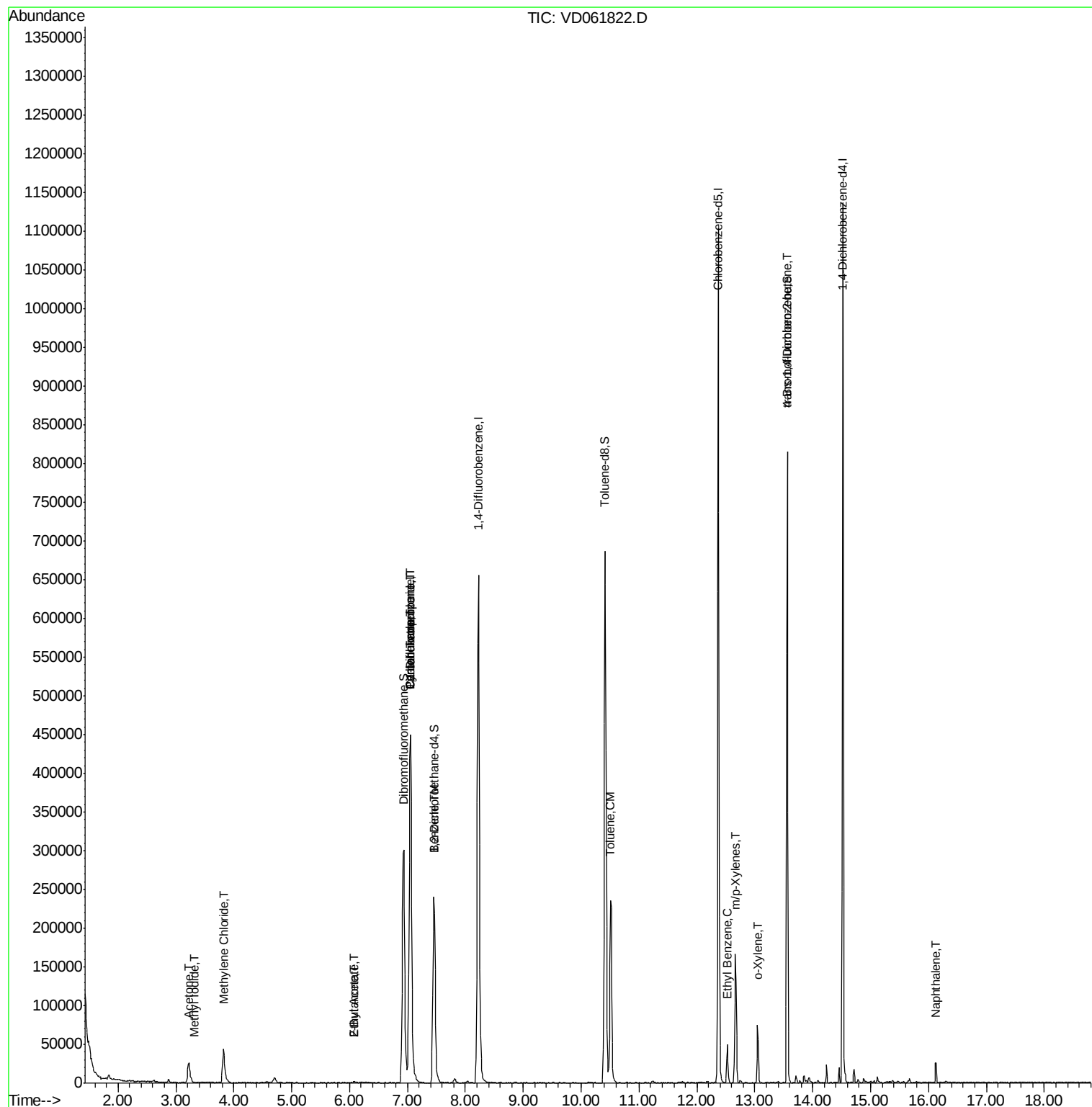
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	751	Below Cal	#	12
10) Methyl Iodide	3.32	142	668	3.587	ug/l #	37
16) Acetone	3.22	43	55101	55.771	ug/l	98
20) Methylene Chloride	3.82	84	35232	2.848	ug/l	91
25) 2-Butanone	6.07	43	4634	4.120	ug/l #	56
31) Cyclohexane	7.05	56	7922	1.305	ug/l #	1
36) 1,1-Dichloropropene	7.04	75	34313	5.081	ug/l #	45
37) Ethyl Acetate	6.07	43	4634	1.603	ug/l #	64
38) Carbon Tetrachloride	7.05	117	44855	5.260	ug/l #	16
40) Benzene	7.46	78	57485	3.546	ug/l	91
52) Toluene	10.51	92	134656	12.961	ug/l	93
67) Ethyl Benzene	12.53	91	35663	1.838	ug/l	99
68) m/p-Xylenes	12.66	106	55140	7.566	ug/l	99
69) o-Xylene	13.05	106	19136	2.794	ug/l	84
81) trans-1,4-Dichloro-2-buten	13.56	75	92955	71.747	ug/l #	16
95) Naphthalene	16.13	128	20201	2.990	ug/l	97

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

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QLast Update : Tue Apr 16 08:53:01 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA_D

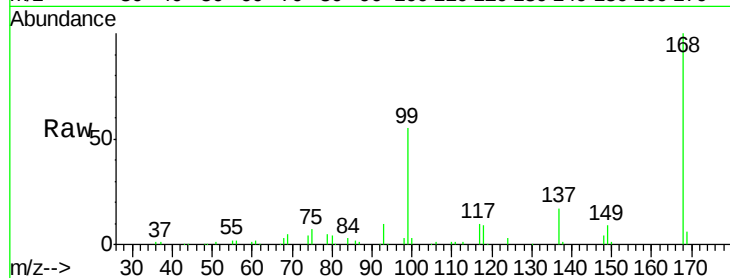
ClientSampleId :

Tot Ion:168 Resp: 478307

Ion Ratio Lower Upper

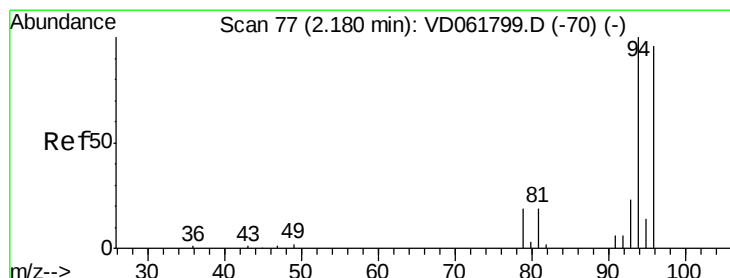
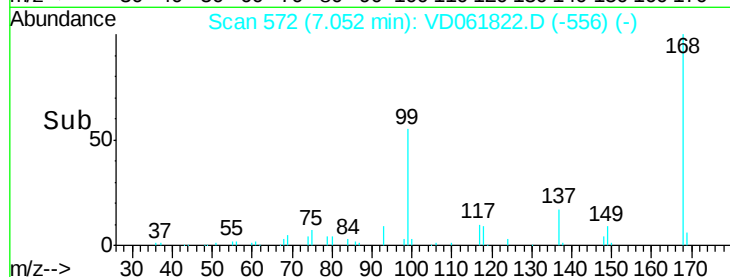
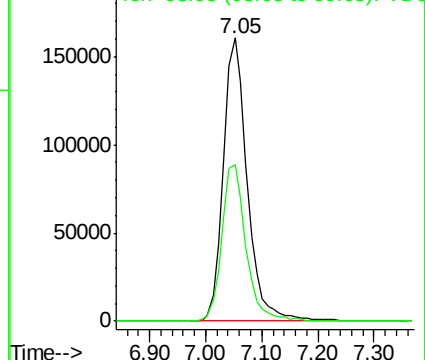
168 100

99 55.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

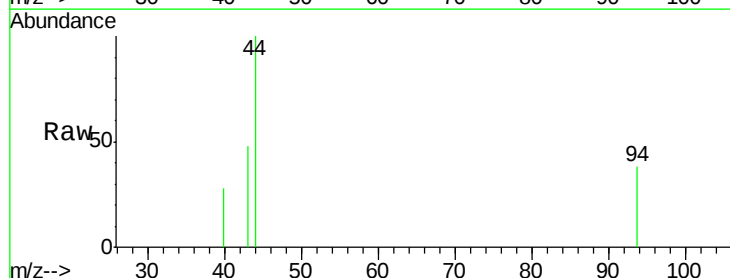
Tgt Ion: 94 Resp: 751

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

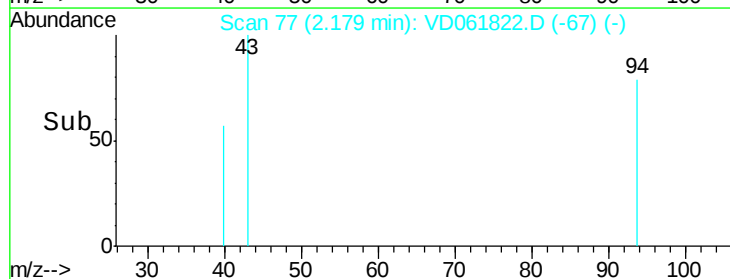
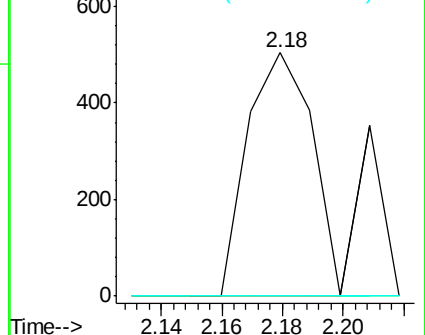
93 0.0 18.5 27.7#

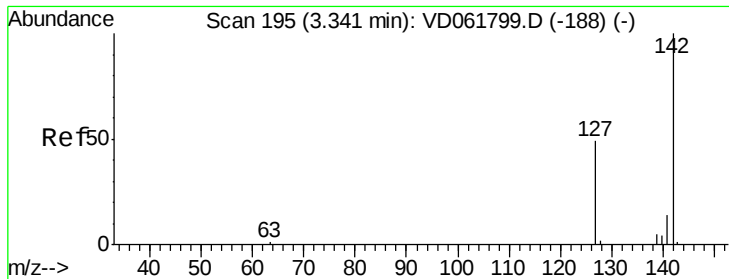


Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC

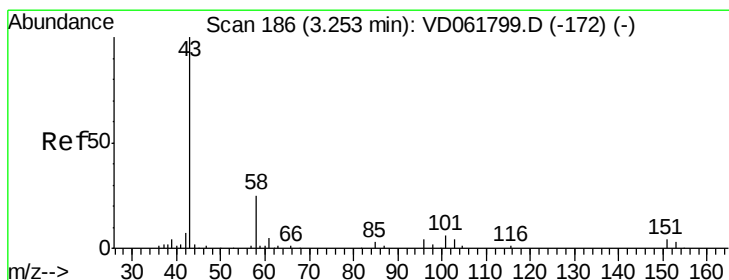
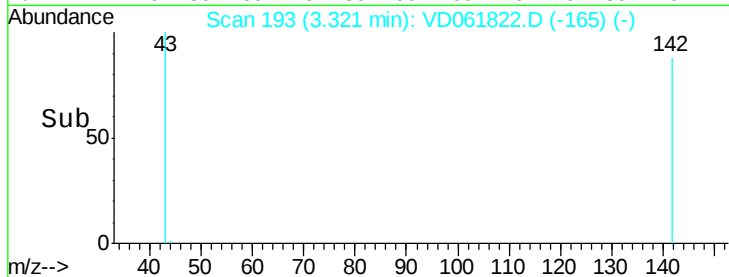
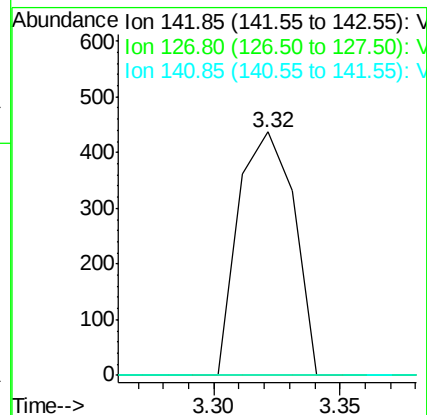
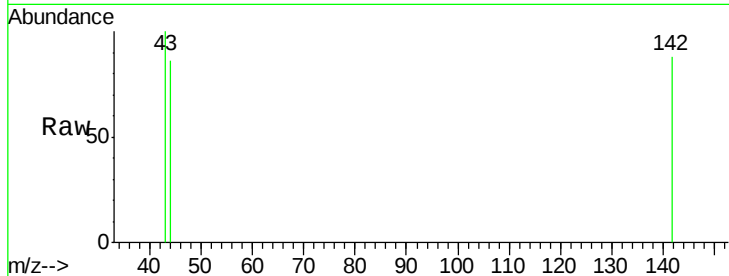




#10
Methyl Iodide
Concen: 3.587 ug/l
RT: 3.32 min Scan# 193
Delta R.T. -0.02 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

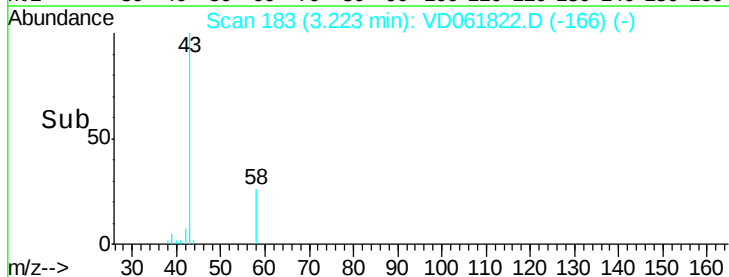
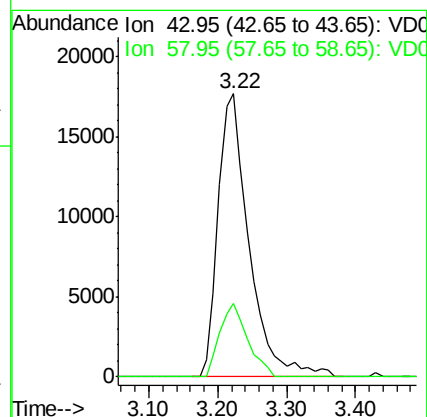
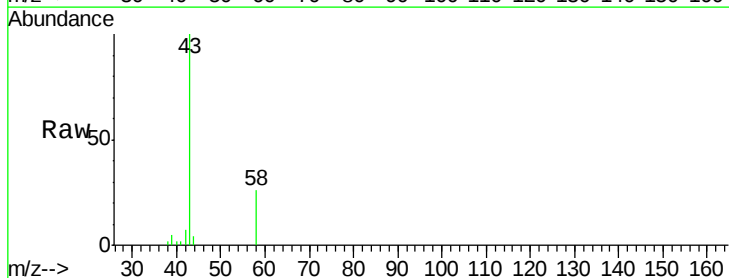
Instrument :
MSVOA_D
ClientSampleId :

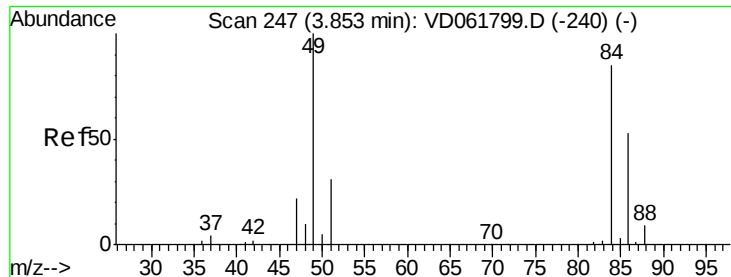
Tot Ion:142 Resp: 668
Ion Ratio Lower Upper
142 100
127 0.0 38.8 58.2#
141 0.0 11.4 17.0#



#16
Acetone
Concen: 55.771 ug/l
RT: 3.22 min Scan# 183
Delta R.T. -0.03 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Tgt Ion: 43 Resp: 55101
Ion Ratio Lower Upper
43 100
58 25.9 19.9 29.9

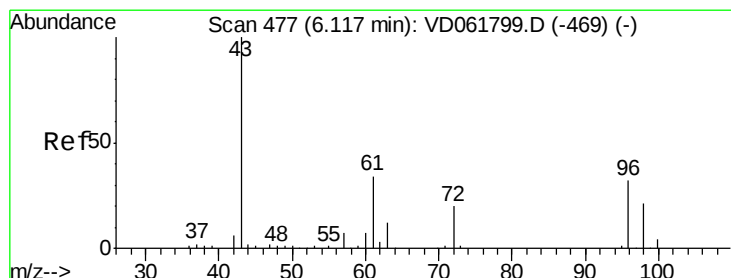
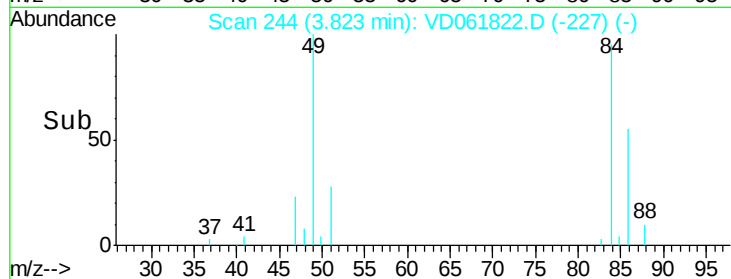
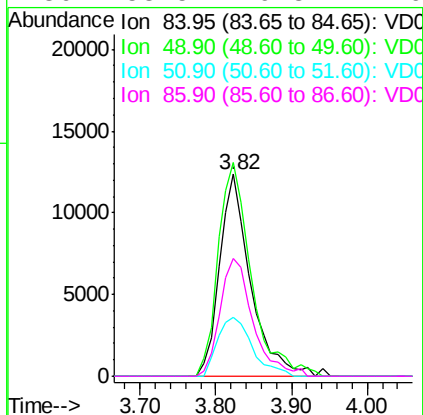
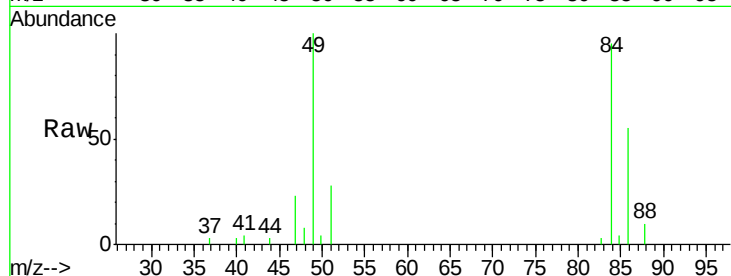




#20
Methvlene Chloride
Concen: 2.848 ug/l
RT: 3.82 min Scan# 244
Delta R.T. -0.03 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

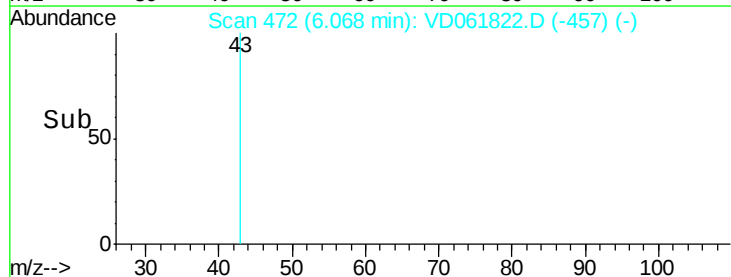
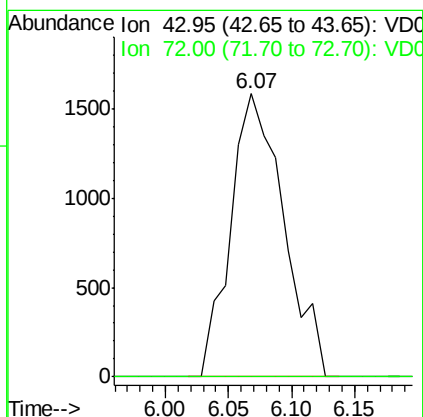
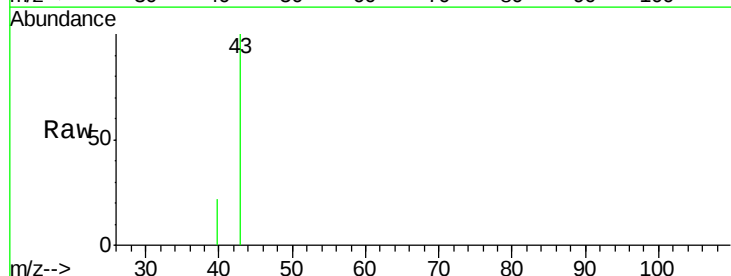
Instrument :
MSVOA_D
ClientSampleId :

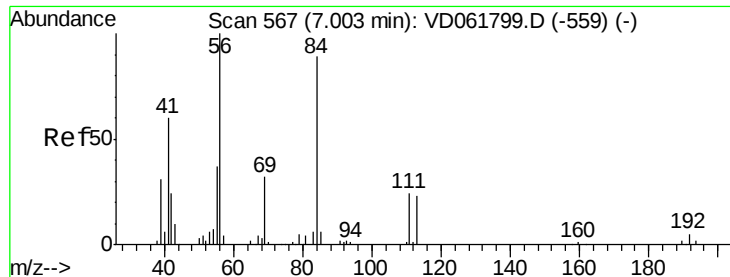
Tot Ion:	84	Resp:	35232
Ion	Ratio	Lower	Upper
84	100		
49	105.8	94.0	141.0
51	29.3	29.0	43.4
86	58.5	49.8	74.6



#25
2-Butanone
Concen: 4.120 ug/l
RT: 6.07 min Scan# 472
Delta R.T. -0.05 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Tgt Ion:	43	Resp:	4634
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.2	24.4#

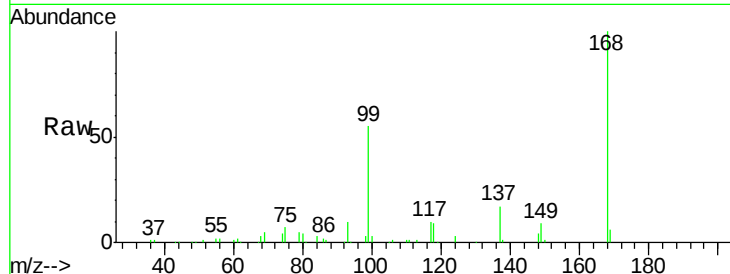




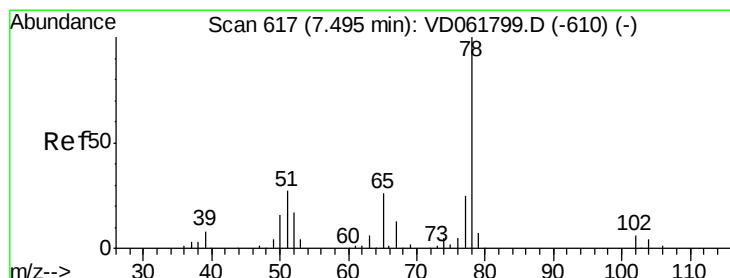
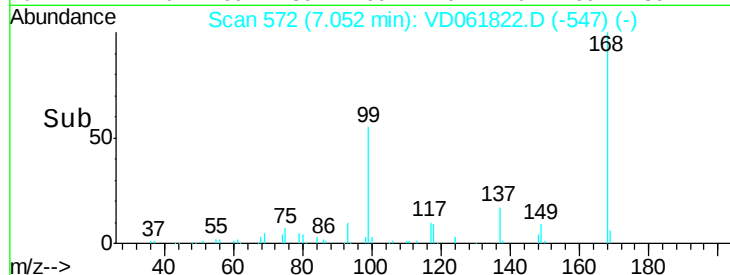
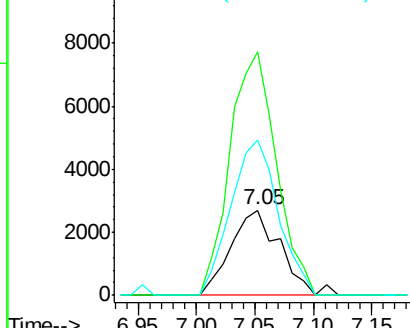
#31
Cyclohexane
Concen: 1.305 ug/l
RT: 7.05 min Scan# 572
Delta R.T. 0.05 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 7922
Ion Ratio Lower Upper
56 100
69 286.1 25.8 38.6#
84 183.2 72.2 108.4#

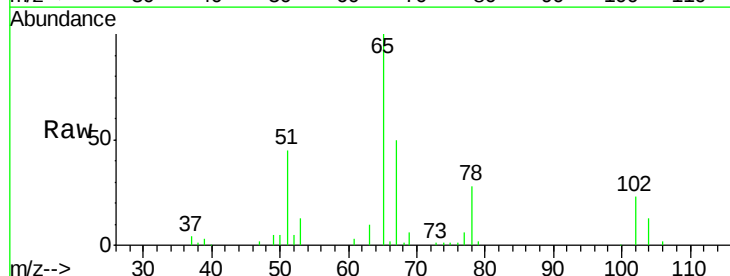


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

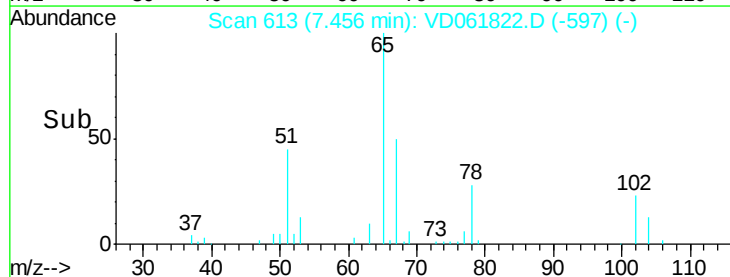
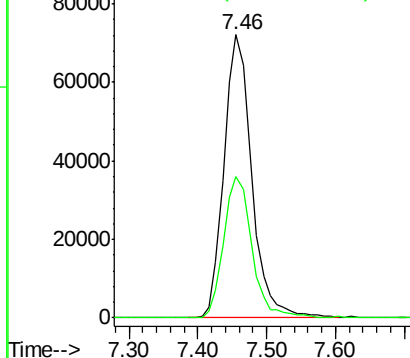


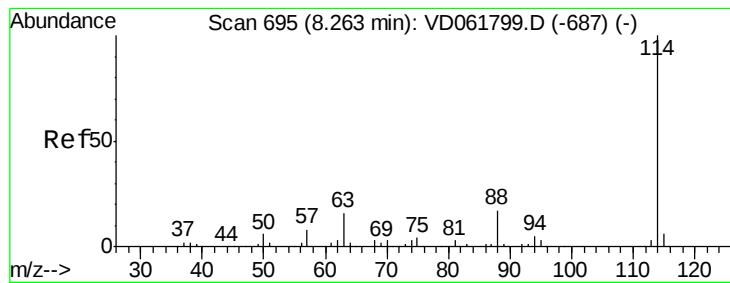
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 7.46 min Scan# 613
Delta R.T. -0.04 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Tgt Ion: 65 Resp: 201905
Ion Ratio Lower Upper
65 100
67 50.1 0.0 98.0



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# 691

Delta R.T. -0.04 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA_D

ClientSampleId :

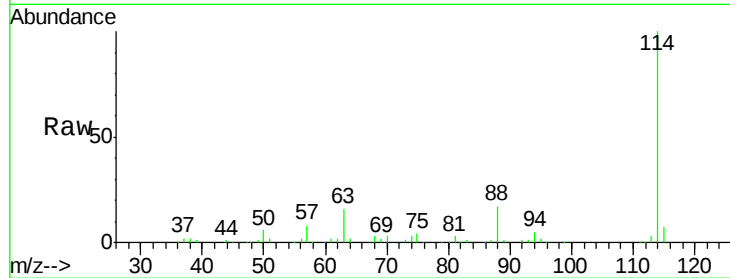
Tot Ion:114 Resp: 826421

Ion Ratio Lower Upper

114 100

63 16.2 0.0 32.4

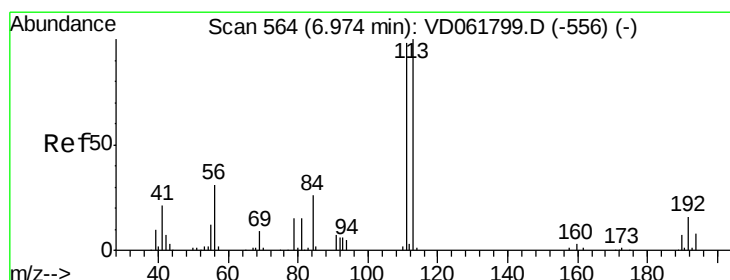
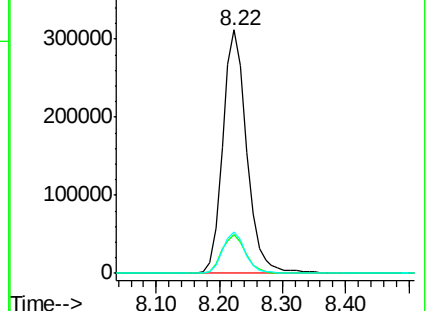
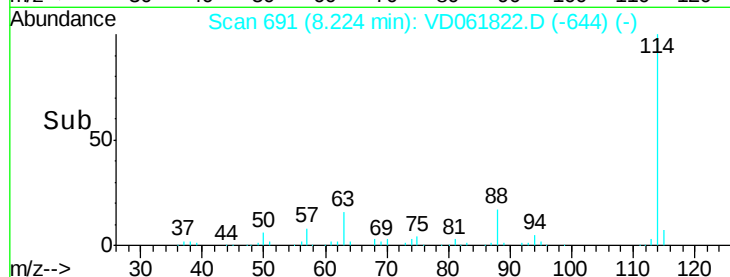
88 16.9 0.0 33.6



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: 50.000 ug/l

RT: 6.93 min Scan# 560

Delta R.T. -0.04 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

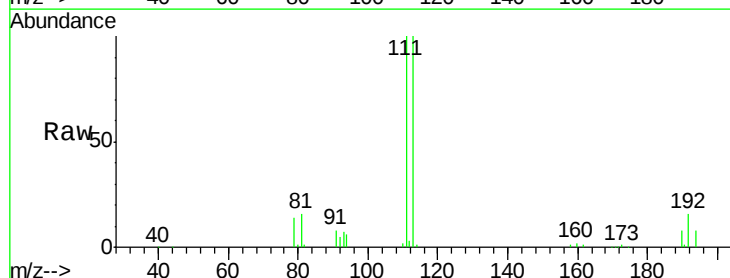
Tgt Ion:113 Resp: 299548

Ion Ratio Lower Upper

113 100

111 100.0 78.5 117.7

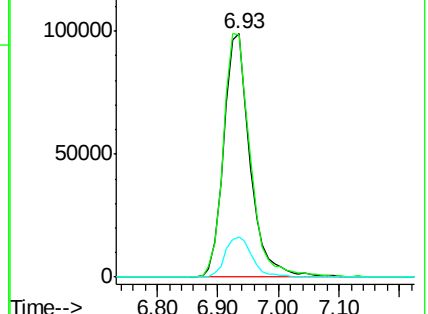
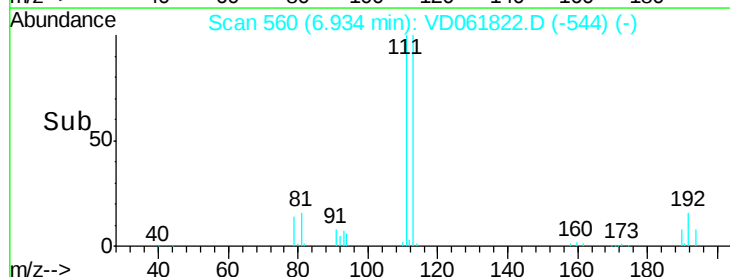
192 16.3 13.0 19.4

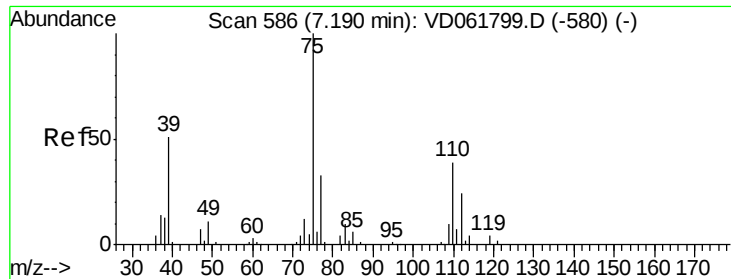


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.081 ug/l

RT: 7.04 min Scan# 571

Delta R.T. -0.15 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA_D

ClientSampleId :

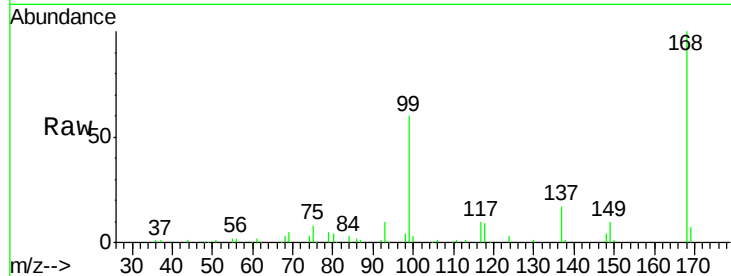
Tot Ion: 75 Resp: 34313

Ion Ratio Lower Upper

75 100

110 5.9 19.1 57.1#

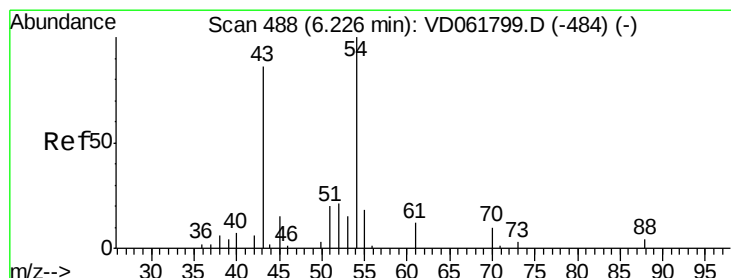
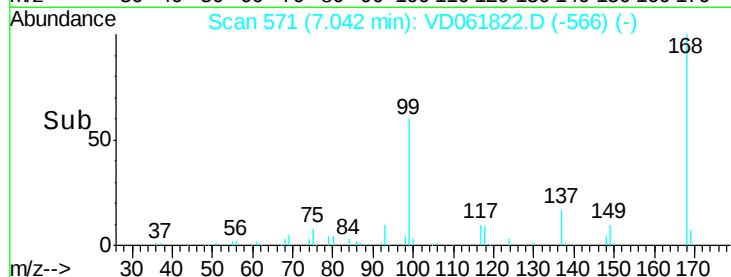
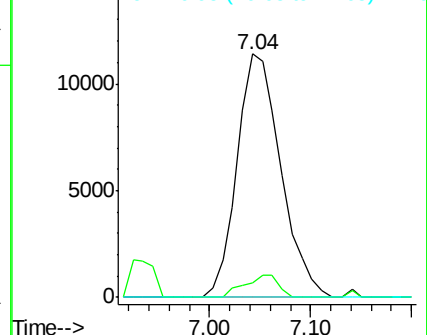
77 0.0 25.6 38.4#



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: 1.603 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.16 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

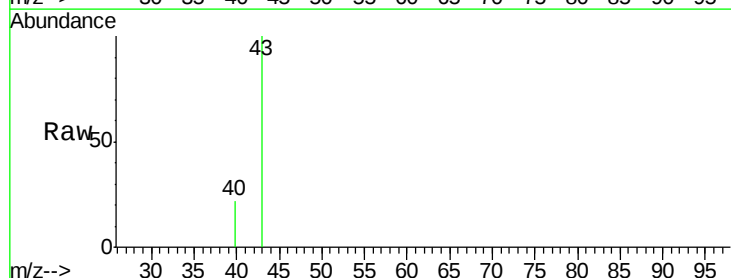
Tgt Ion: 43 Resp: 4634

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

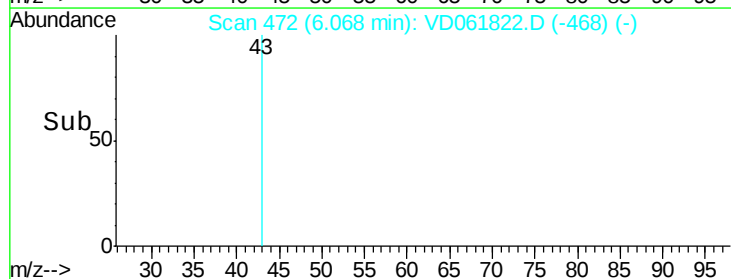
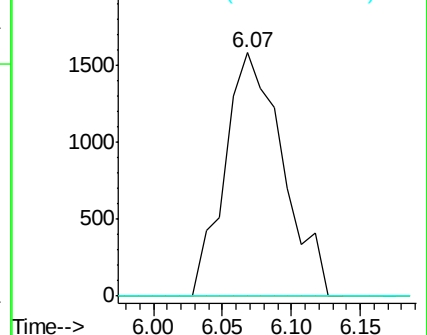
70 0.0 7.8 11.6#

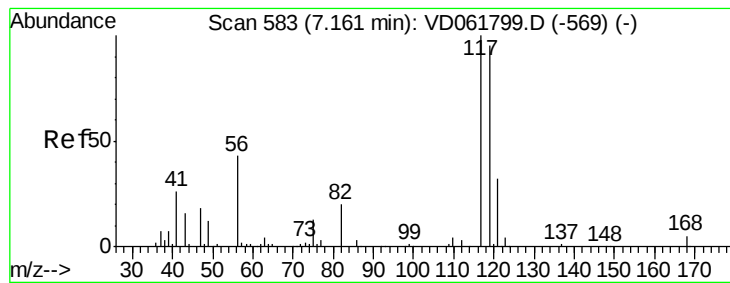


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.260 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.11 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA_D

ClientSampled :

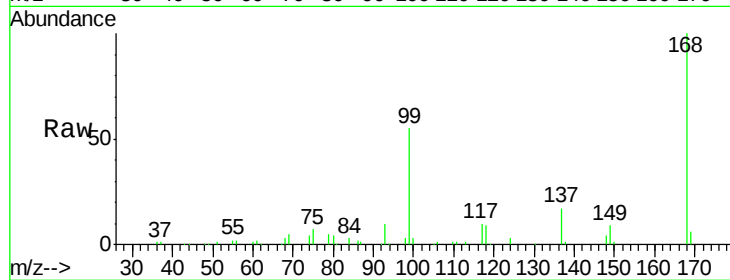
Tot Ion:117 Resp: 44855

Ion Ratio Lower Upper

117 100

119 4.4 75.8 113.8#

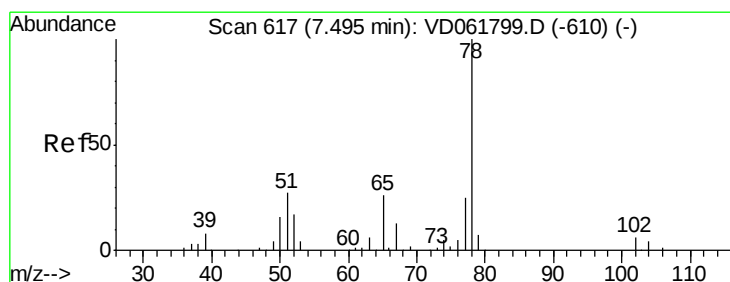
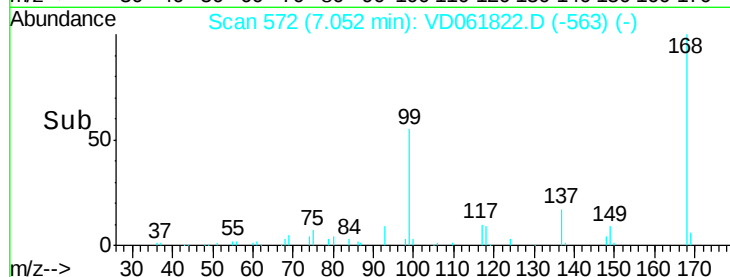
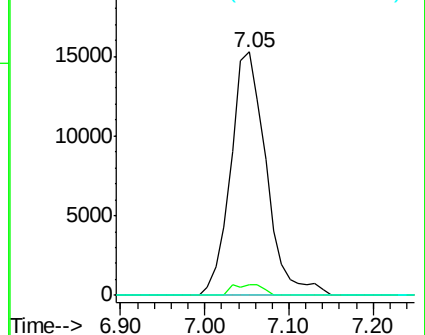
121 0.0 25.9 38.9#



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



#40

Benzene

Concen: 3.546 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.04 min

Lab File: VD061822.D

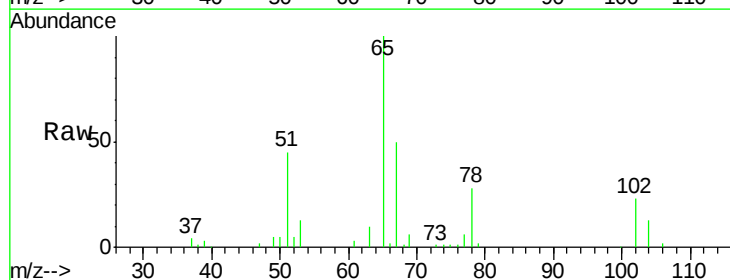
Acq: 16 Apr 2019 20:46

Tgt Ion: 78 Resp: 57485

Ion Ratio Lower Upper

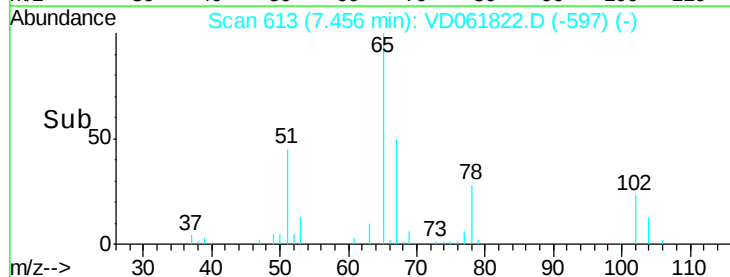
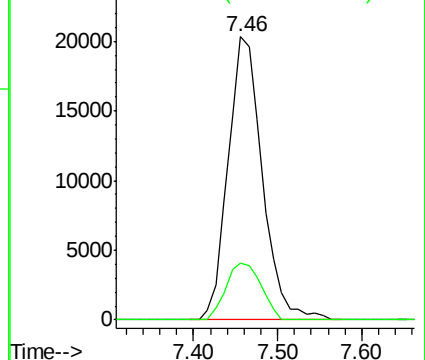
78 100

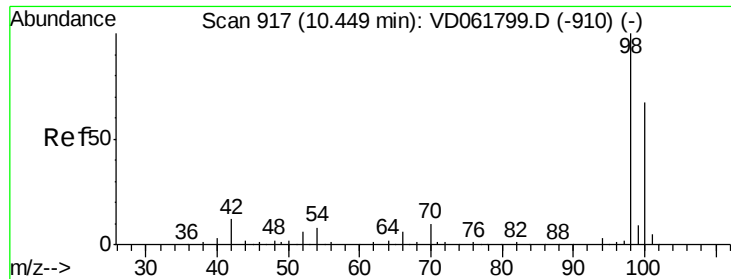
77 20.0 19.7 29.5



Abundance Ion 77.95 (77.65 to 78.65): V

Ion 76.95 (76.65 to 77.65): V

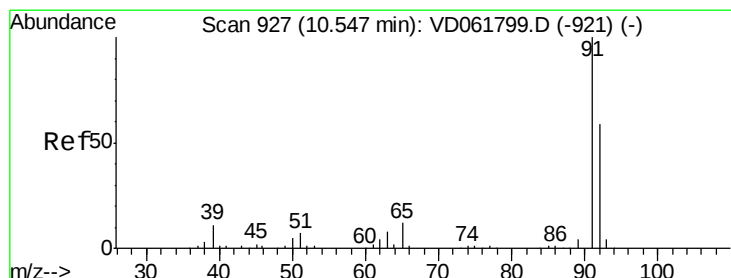
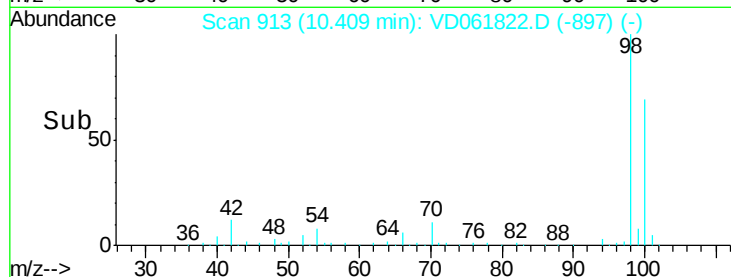
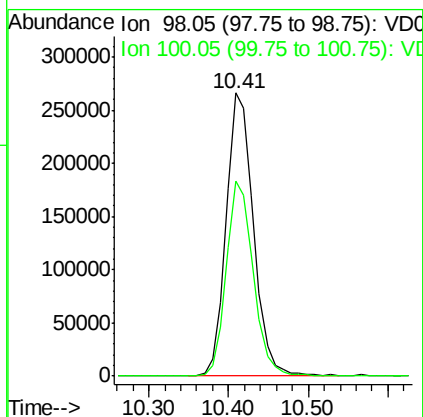
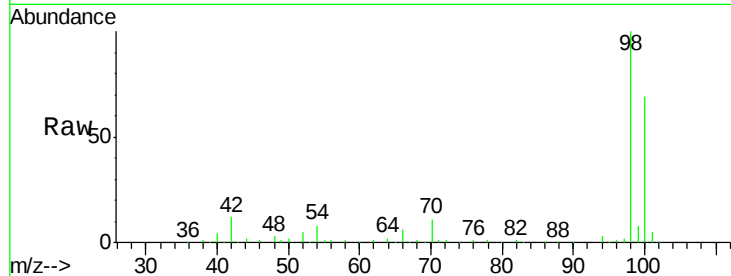




#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.41 min Scan# 913
Delta R.T. -0.04 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

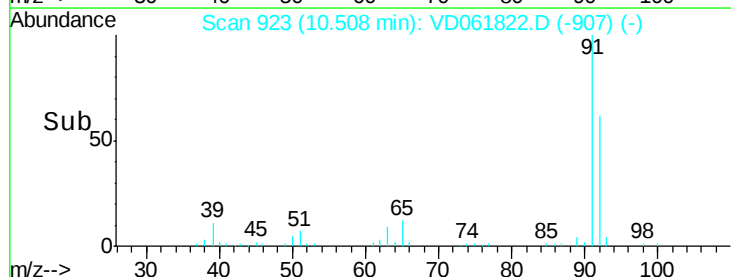
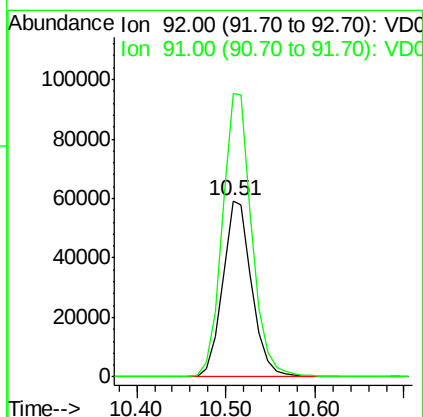
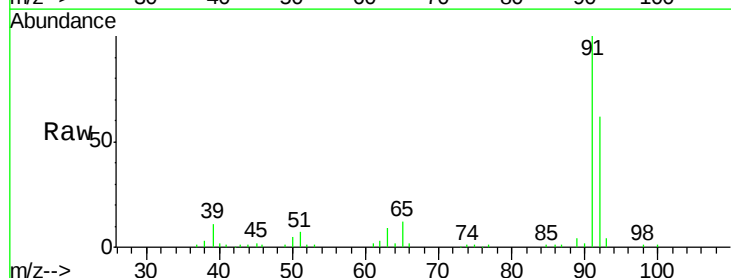
Instrument :
MSVOA_D
ClientSampleId :

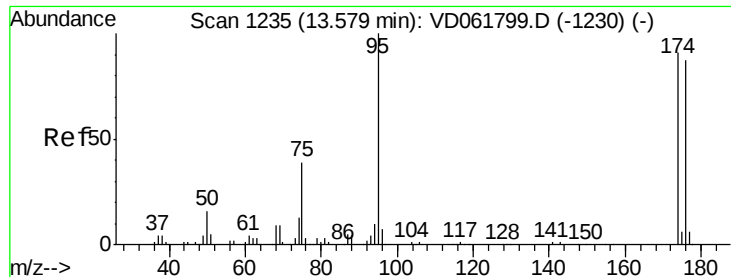
Tot Ion: 98 Resp: 640805
Ion Ratio Lower Upper
98 100
100 69.0 53.8 80.8



#52
Toluene
Concen: 12.961 ug/l
RT: 10.51 min Scan# 923
Delta R.T. -0.04 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Tgt Ion: 92 Resp: 134656
Ion Ratio Lower Upper
92 100
91 160.7 136.6 204.8





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA_D

ClientSampleId :

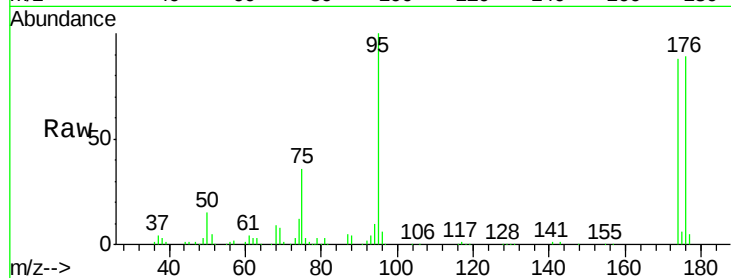
Tot Ion: 95 Resp: 247138

Ion Ratio Lower Upper

95 100

174 87.6 0.0 181.8

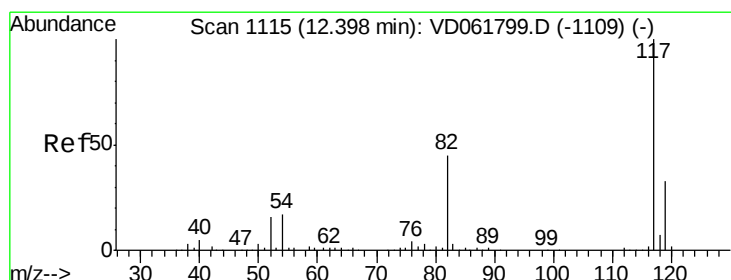
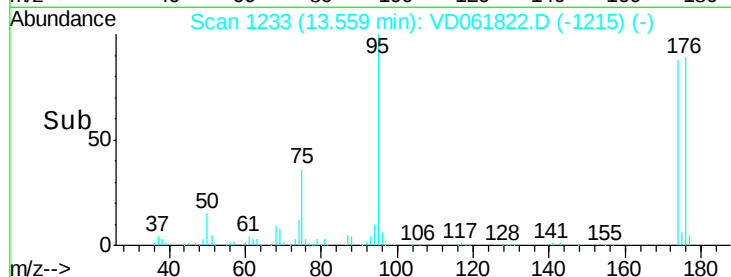
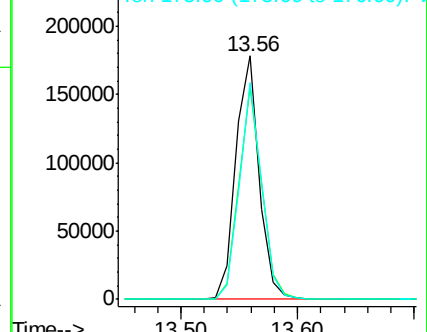
176 89.0 0.0 174.4



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. -0.03 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

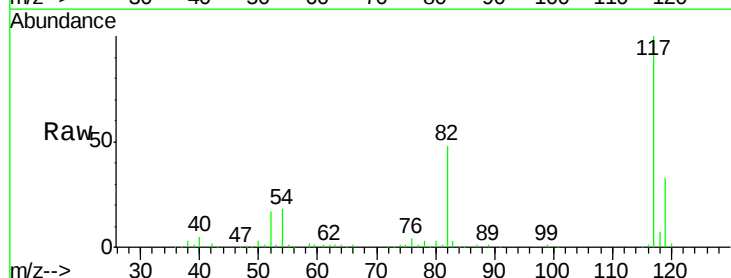
Tgt Ion: 117 Resp: 650514

Ion Ratio Lower Upper

117 100

82 47.8 36.2 54.2

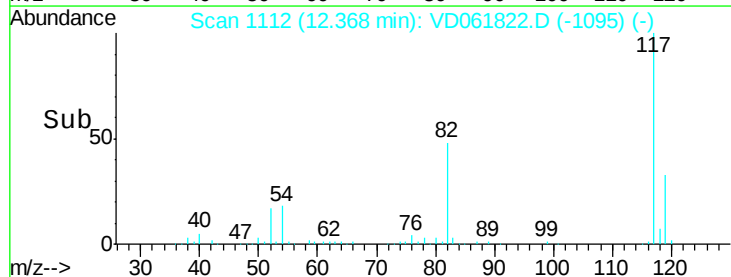
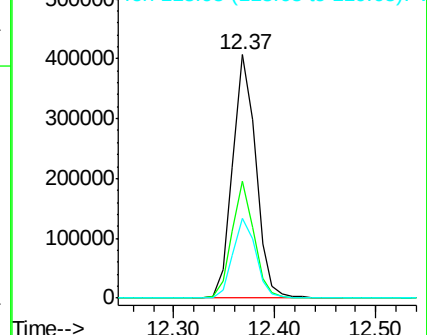
119 32.6 26.2 39.4

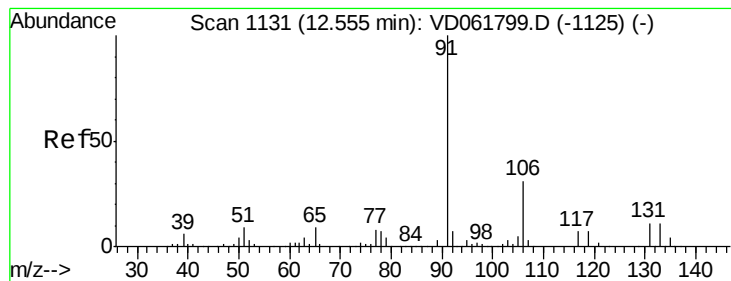


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#67

Ethyl Benzene

Concen: 1.838 ug/l

RT: 12.53 min Scan# 1128

Delta R.T. -0.03 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA_D

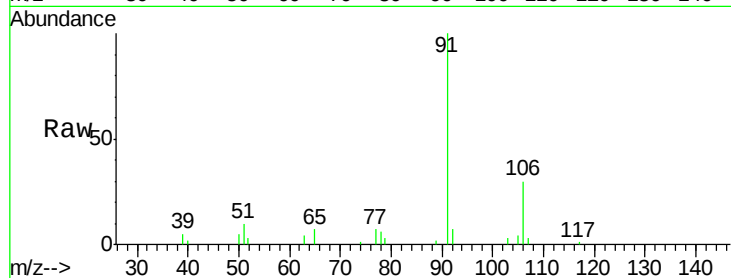
ClientSampleId :

Tot Ion: 91 Resp: 35663

Ion Ratio Lower Upper

91 100

106 30.4 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.05 (105.75 to 106.75): V

12.53

25000

20000

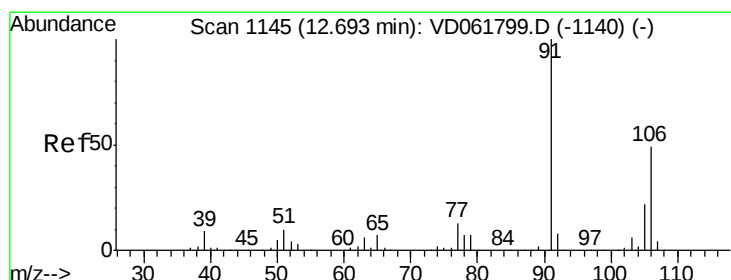
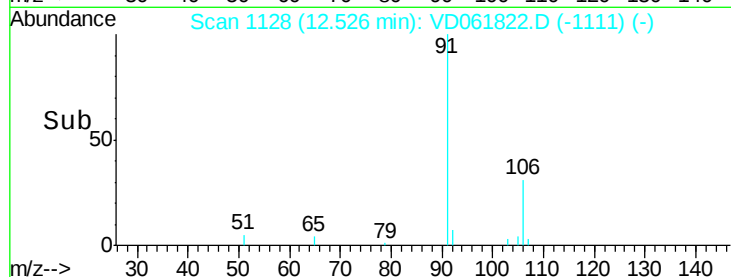
15000

10000

5000

0

Time-->



#68

m/p-Xylenes

Concen: 7.566 ug/l

RT: 12.66 min Scan# 1142

Delta R.T. -0.03 min

Lab File: VD061822.D

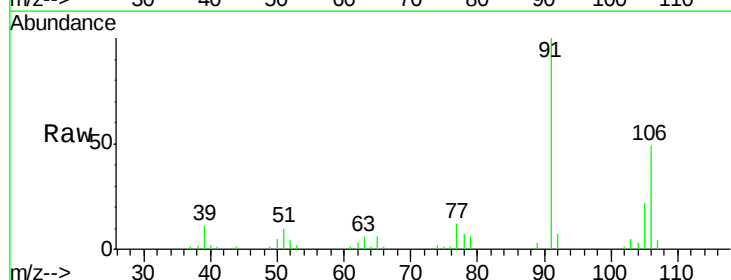
Acq: 16 Apr 2019 20:46

Tgt Ion: 106 Resp: 55140

Ion Ratio Lower Upper

106 100

91 203.4 164.0 246.0



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V

12.66

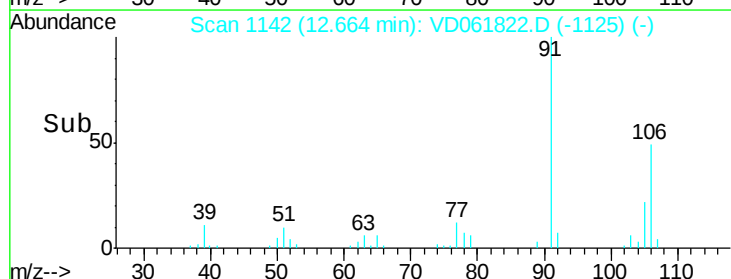
60000

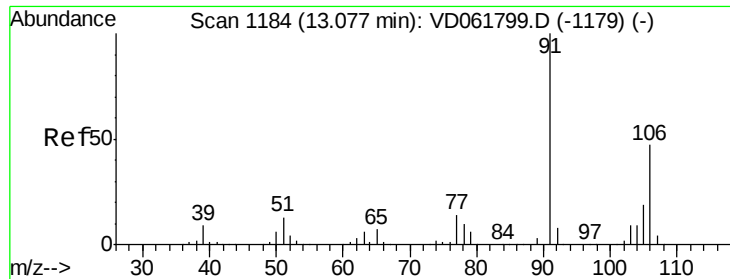
40000

20000

0

Time-->

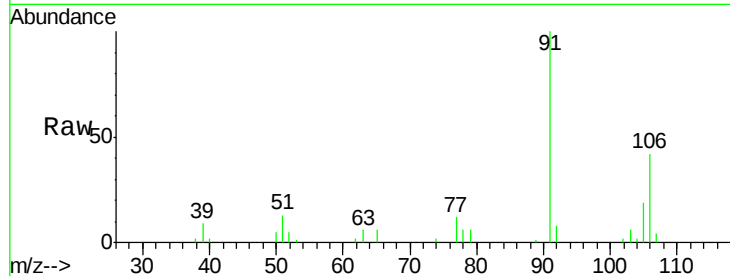




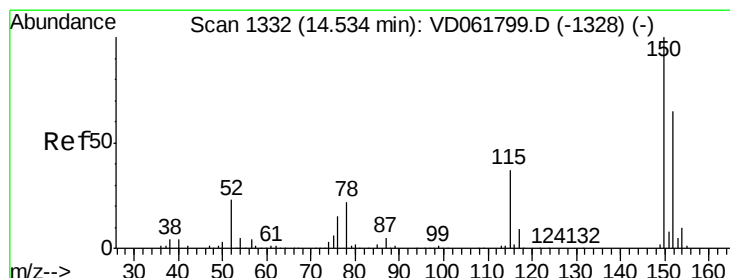
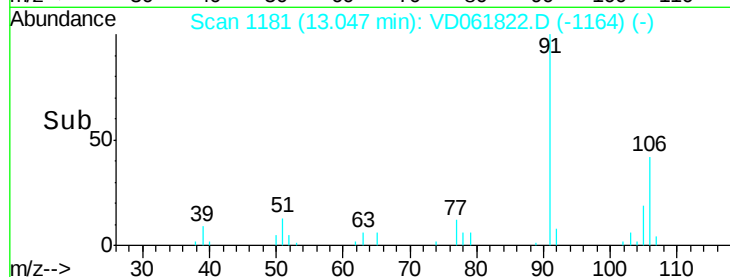
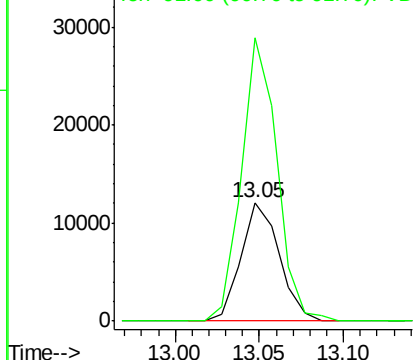
#69
o-Xylene
Concen: 2.794 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.03 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 19136
Ion Ratio Lower Upper
106 100
91 238.3 106.7 319.9

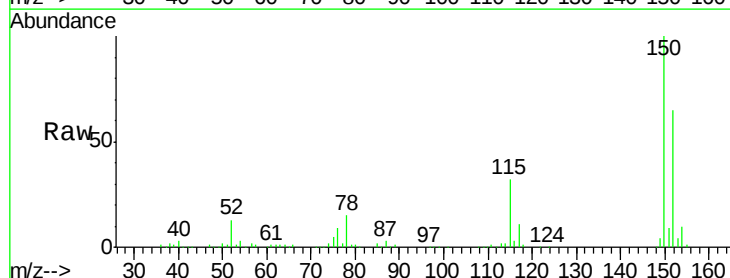


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

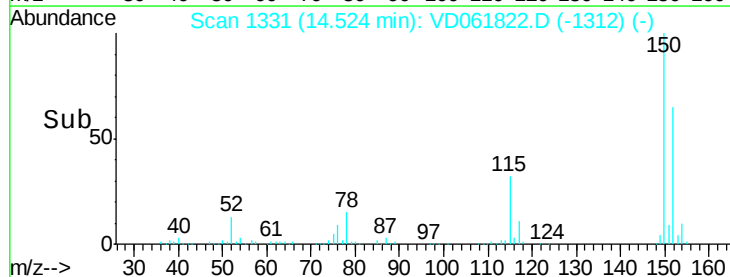
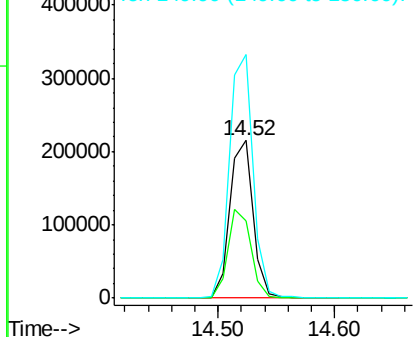


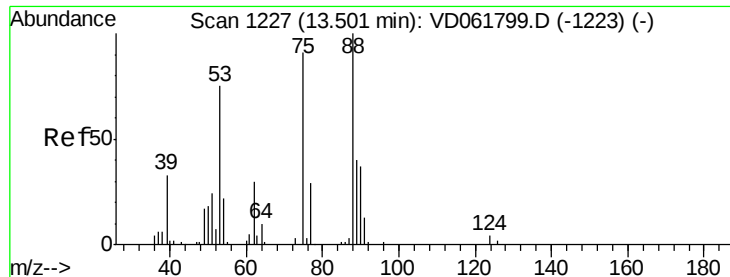
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. -0.01 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Tgt Ion:152 Resp: 297944
Ion Ratio Lower Upper
152 100
115 48.7 30.9 92.7
150 154.5 0.0 314.8



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

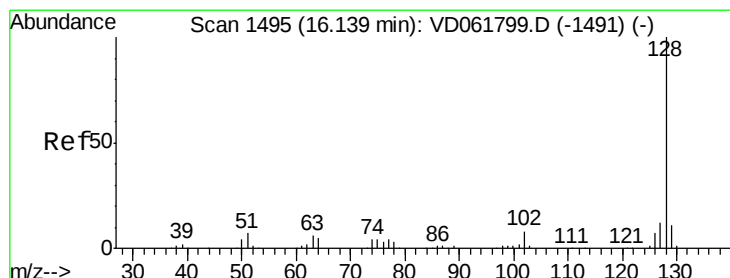
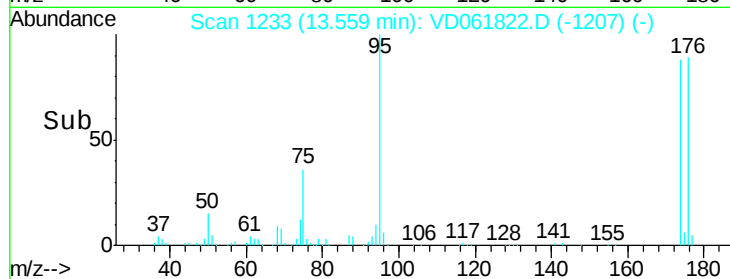
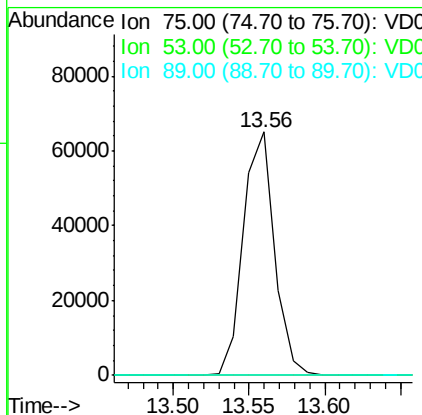
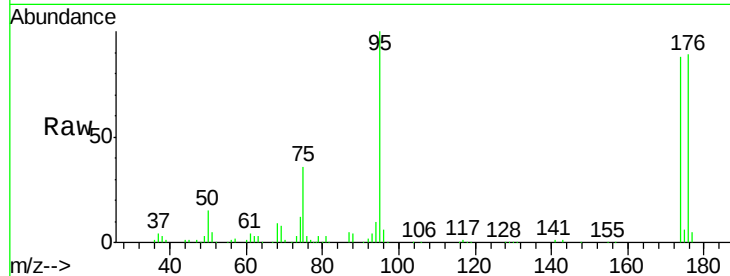




#81
trans-1,4-Dichloro-2-butene
Concen: 71.747 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.06 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 92955
Ion Ratio Lower Upper
75 100
53 0.0 65.8 98.8#
89 0.0 35.0 52.6#



#95
Naphthalene
Concen: 2.990 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VD061822.D
Acq: 16 Apr 2019 20:46

Tgt Ion: 128 Resp: 20201
Ion Ratio Lower Upper
128 100
127 10.2 9.8 14.8
129 10.6 8.8 13.2

