

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD052319\
 Data File : VD062522.D
 Acq On : 23 May 2019 15:14
 Operator : VA/AP
 Sample : K2996-07RE
 Misc : 5.76g/5ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P-7(4.5-5.0)

Quant Time: May 24 01:21:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 03:32:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	444165	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	8.21	114	610167	50.00	ug/l	-0.02
63) Chlorobenzene-d5	12.36	117	539719	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	248674	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	177696	37.37	ug/l	-0.02
Spiked Amount			Recovery	=	74.74%	
35) Dibromofluoromethane	6.92	113	220286	40.02	ug/l	-0.02
Spiked Amount			Recovery	=	80.04%	
50) Toluene-d8	10.41	98	505038	41.93	ug/l	-0.02
Spiked Amount			Recovery	=	83.86%	
62) 4-Bromofluorobenzene	13.56	95	219034	41.57	ug/l	-0.01
Spiked Amount			Recovery	=	83.14%	

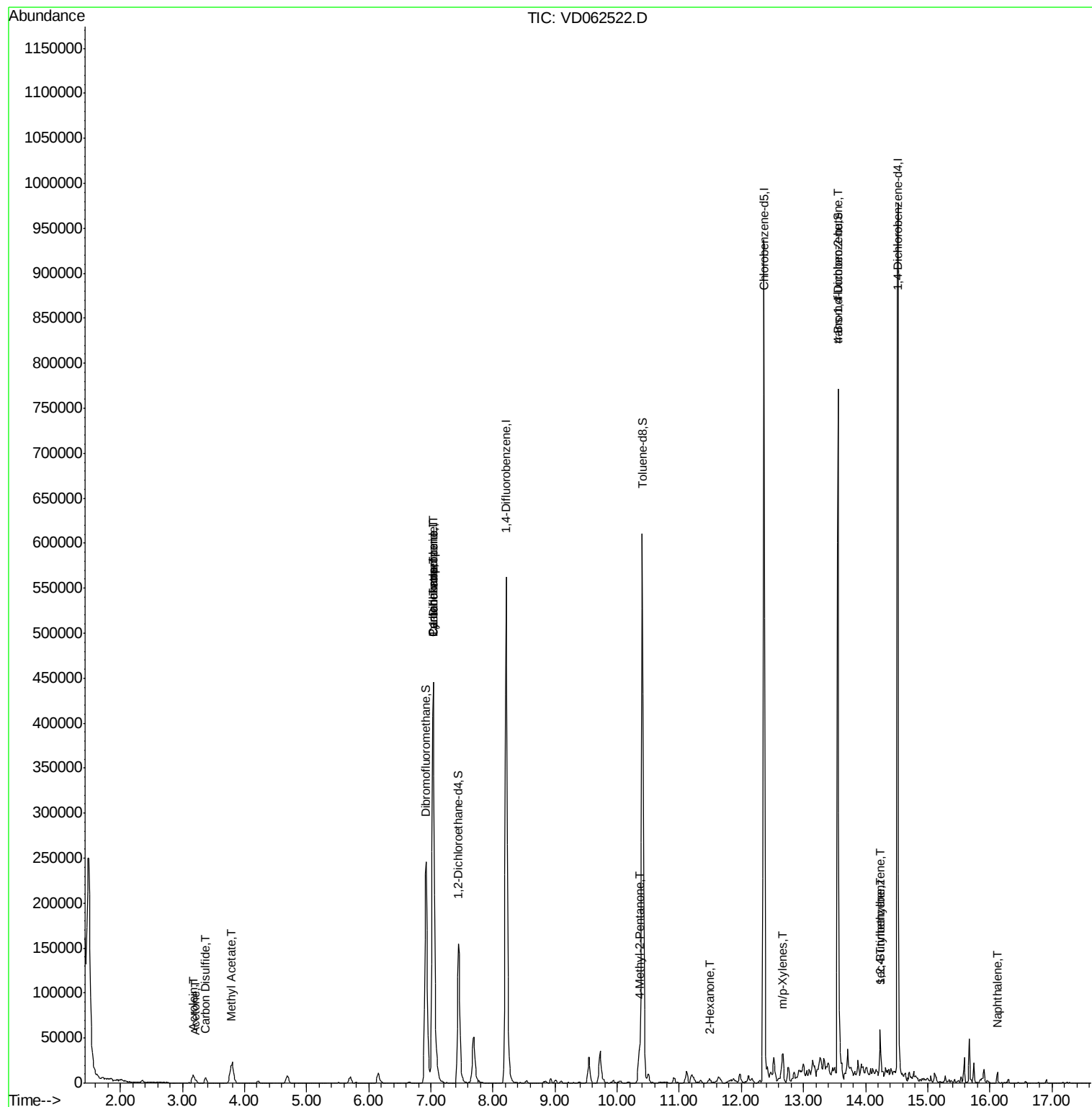
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.17	56	1341	7.358	ug/l	84
16) Acetone	3.22	43	12674	14.876	ug/l #	82
17) Carbon Disulfide	3.37	76	11723	1.177	ug/l #	75
18) Methyl Acetate	3.77	43	14575	9.914	ug/l #	53
20) Methylene Chloride	3.81	84	8185	Below Cal	#	77
31) Cyclohexane	7.04	56	8085	1.801	ug/l #	10
36) 1,1-Dichloropropene	7.04	75	32676	5.601	ug/l #	48
38) Carbon Tetrachloride	7.04	117	43366	5.002	ug/l #	16
51) 4-Methyl-2-Pentanone	10.36	43	6928	3.488	ug/l #	69
59) 2-Hexanone	11.48	43	1483	1.027	ug/l #	27
68) m/p-Xylenes	12.67	106	8896	1.386	ug/l	79
81) trans-1,4-Dichloro-2-buten	13.56	75	95208	115.252	ug/l #	17
84) 1,2,4-Trimethylbenzene	14.23	105	19425	1.397	ug/l	94
85) sec-Butylbenzene	14.23	105	19423	1.237	ug/l #	60
95) Naphthalene	16.12	128	8660	1.205	ug/l	99

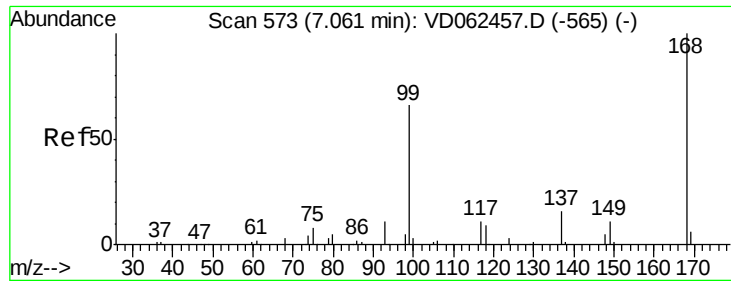
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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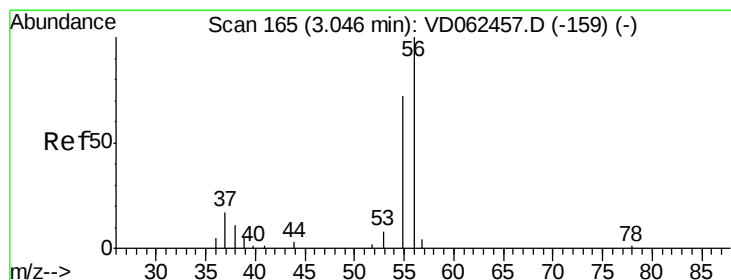
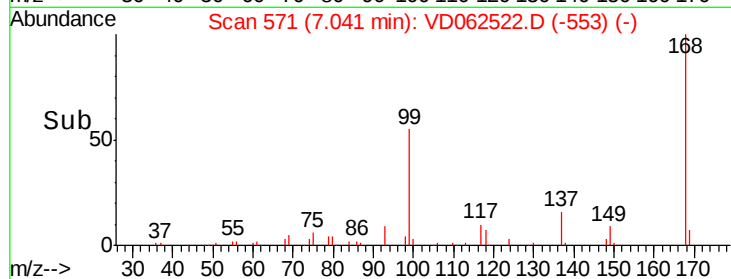
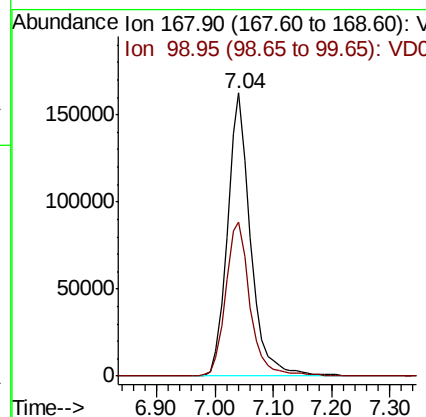
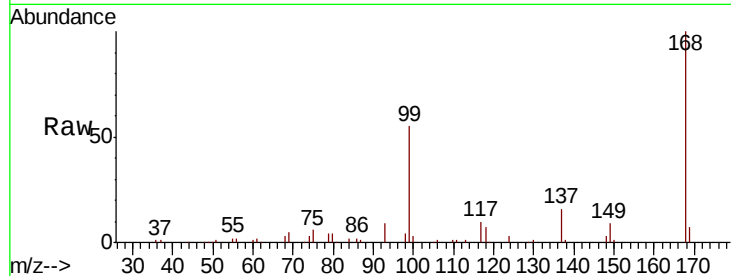




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.04 min Scan# 571
Delta R.T. -0.02 min
Lab File: VD062522.D
Acq: 23 May 2019 15:14

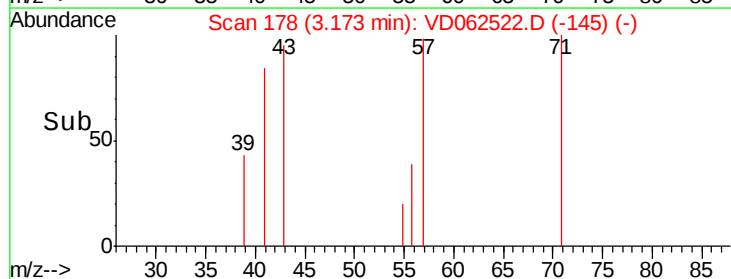
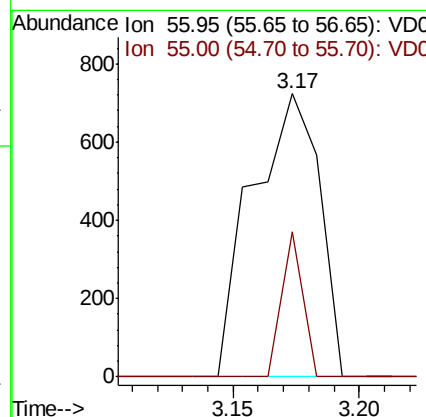
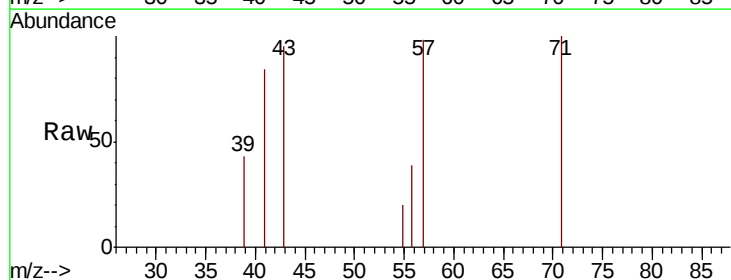
Instrument :
MSVOA_D
ClientSampleId :
P-7(4.5-5.0)

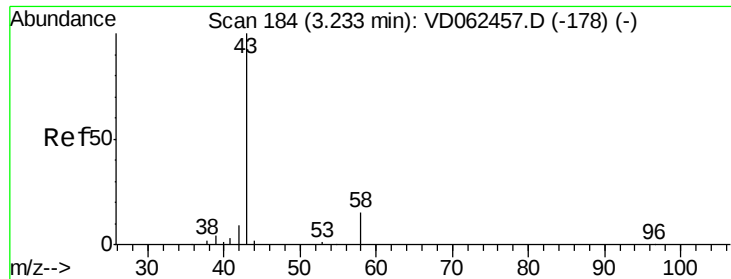
Tot Ion:168 Resp: 444165
Ion Ratio Lower Upper
168 100
99 54.5 46.5 69.7



#13
Acrolein
Concen: 7.358 ug/l
RT: 3.17 min Scan# 178
Delta R.T. 0.13 min
Lab File: VD062522.D
Acq: 23 May 2019 15:14

Tgt Ion: 56 Resp: 1341
Ion Ratio Lower Upper
56 100
55 51.5 51.4 77.2





#16

Acetone

Concen: 14.876 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.01 min

Lab File: VD062522.D

Acq: 23 May 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

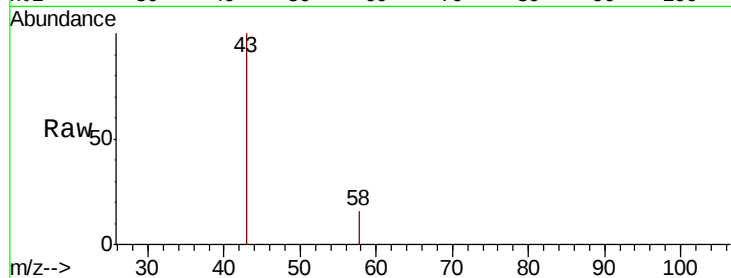
P-7(4.5-5.0)

Tot Ion: 43 Resp: 12674

Ion Ratio Lower Upper

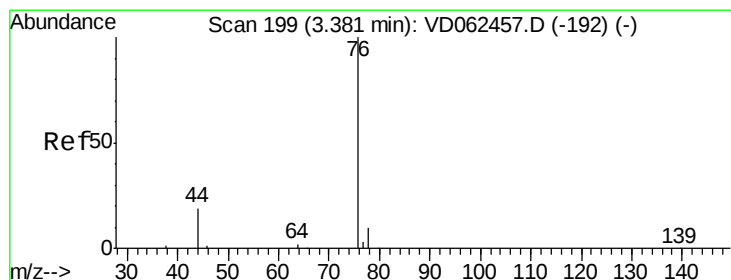
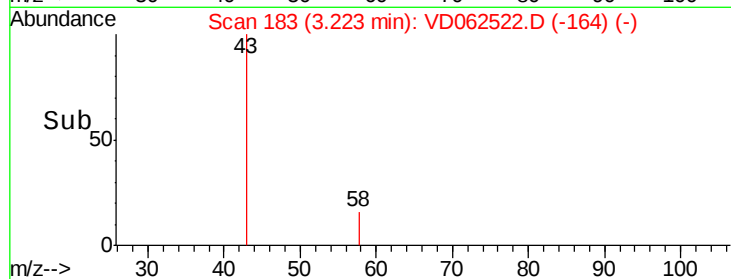
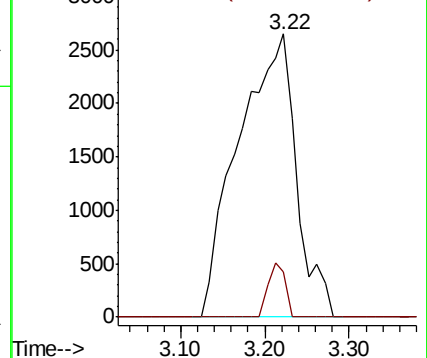
43 100

58 15.8 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#17

Carbon Disulfide

Concen: 1.177 ug/l

RT: 3.37 min Scan# 198

Delta R.T. -0.01 min

Lab File: VD062522.D

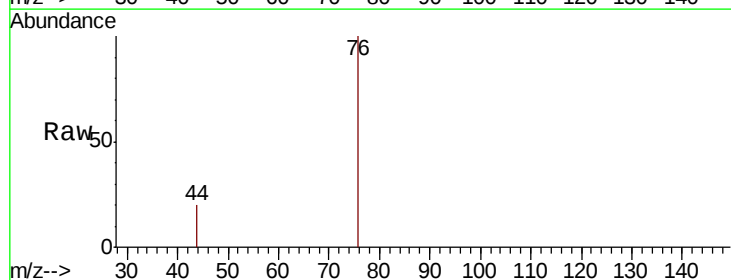
Acq: 23 May 2019 15:14

Tgt Ion: 76 Resp: 11723

Ion Ratio Lower Upper

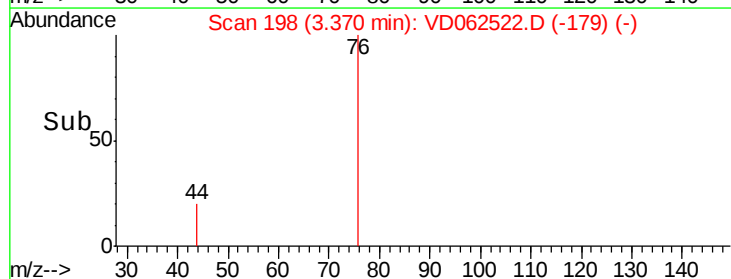
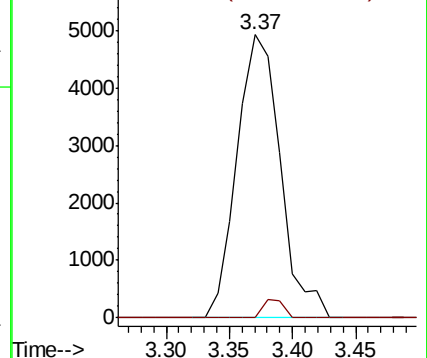
76 100

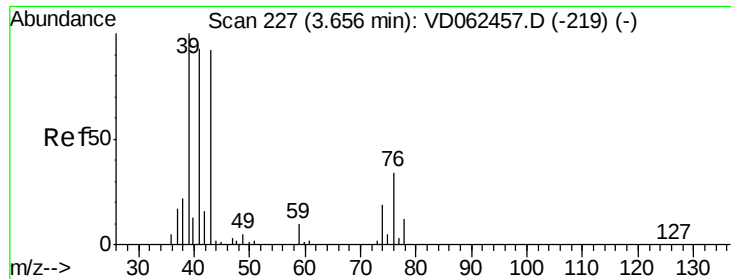
78 0.0 7.2 10.8#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

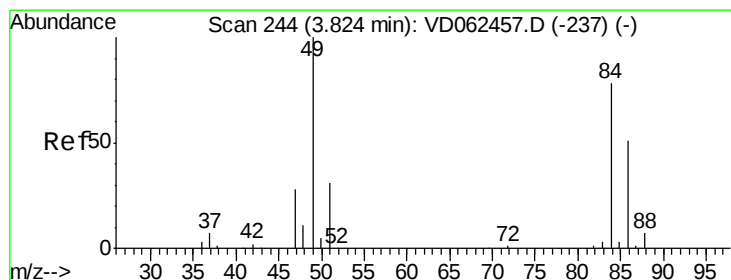
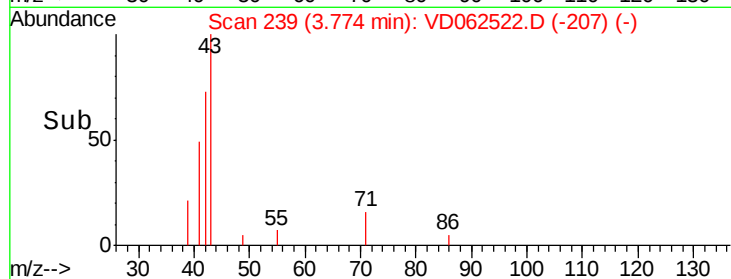
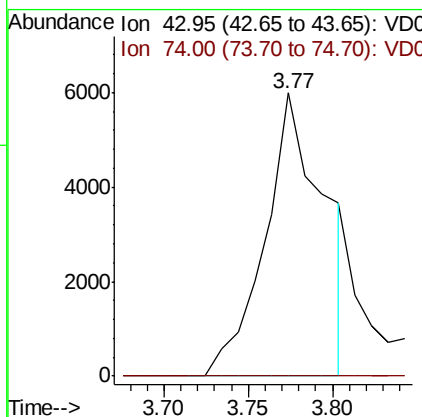
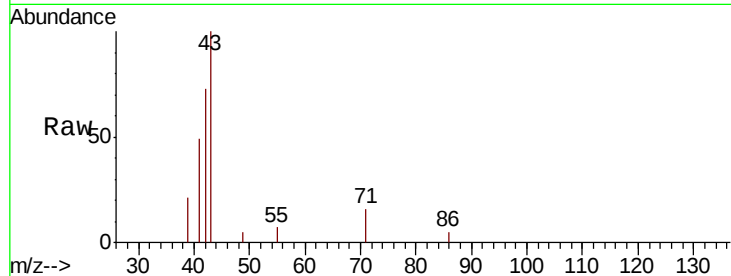




#18
Methyl Acetate
Concen: 9.914 ug/l
RT: 3.77 min Scan# 239
Delta R.T. 0.12 min
Lab File: VD062522.D
Acq: 23 May 2019 15:14

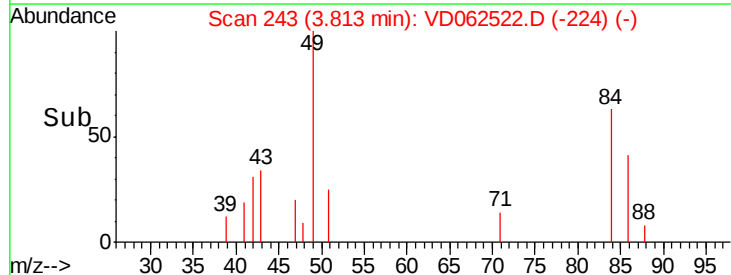
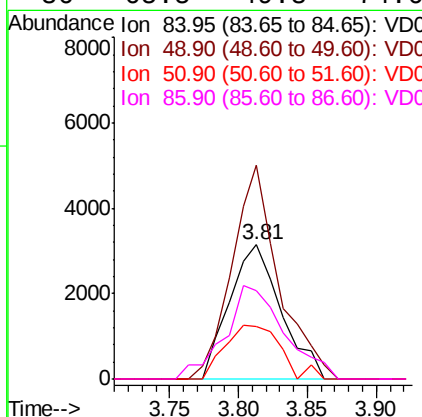
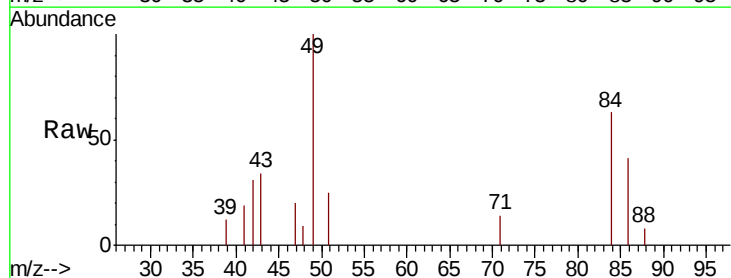
Instrument :
MSVOA_D
ClientSampleId :
P-7(4.5-5.0)

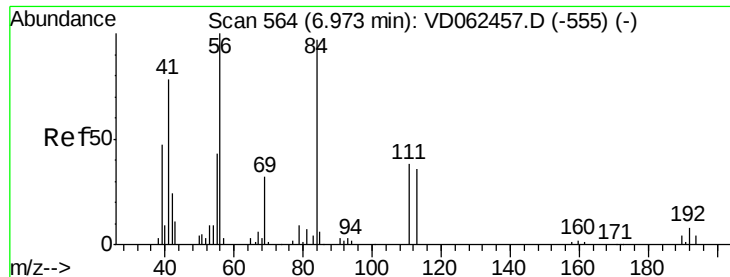
Tot Ion: 43 Resp: 14575
Ion Ratio Lower Upper
43 100
74 0.0 18.0 27.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.81 min Scan# 243
Delta R.T. -0.01 min
Lab File: VD062522.D
Acq: 23 May 2019 15:14

Tgt Ion: 84 Resp: 8185
Ion Ratio Lower Upper
84 100
49 159.2 94.0 141.0#
51 39.1 29.0 43.4
86 65.5 49.8 74.6

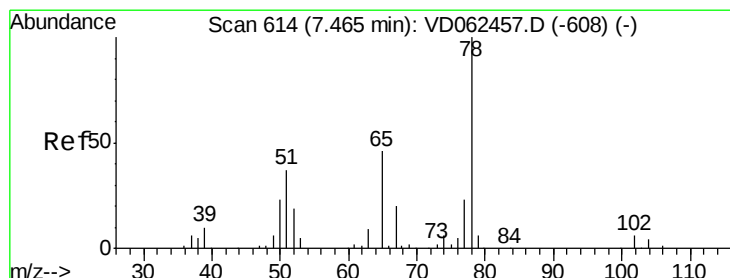
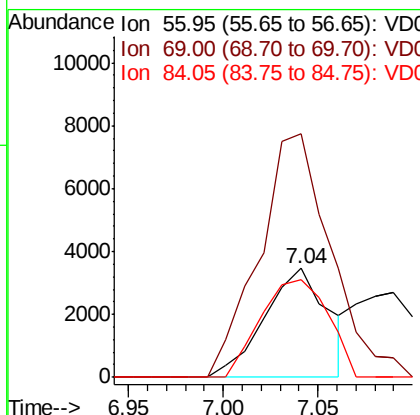
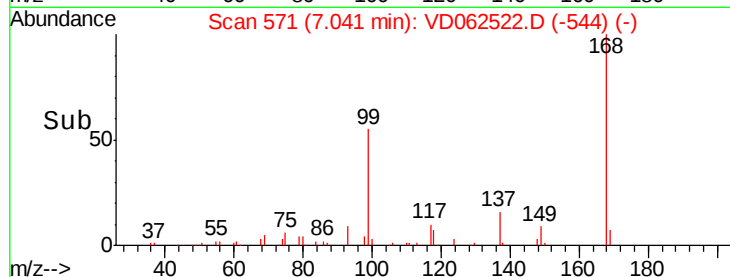
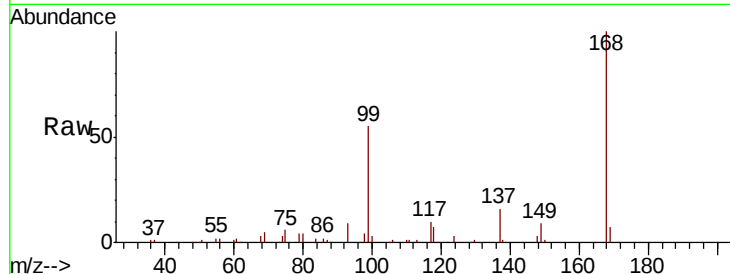




#31
Cvclohexane
Concen: 1.801 ug/l
RT: 7.04 min Scan# 571
Delta R.T. 0.07 min
Lab File: VD062522.D
Acq: 23 May 2019 15:14

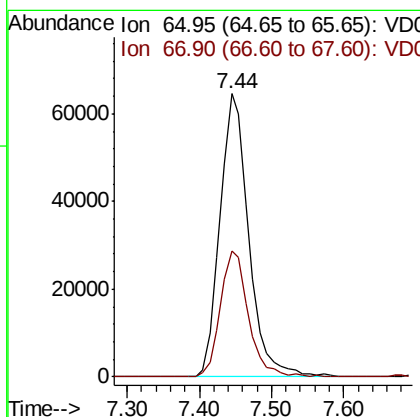
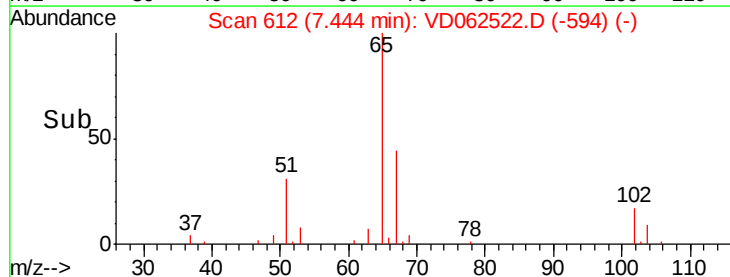
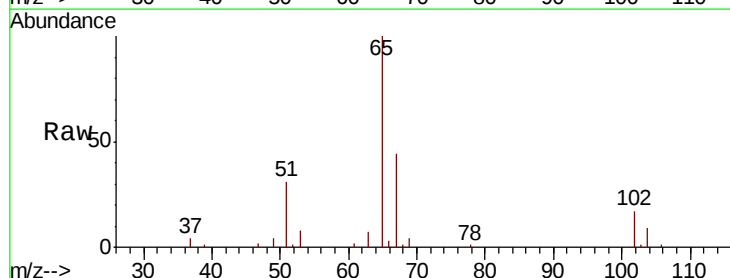
Instrument :
MSVOA_D
ClientSampleId :
P-7(4.5-5.0)

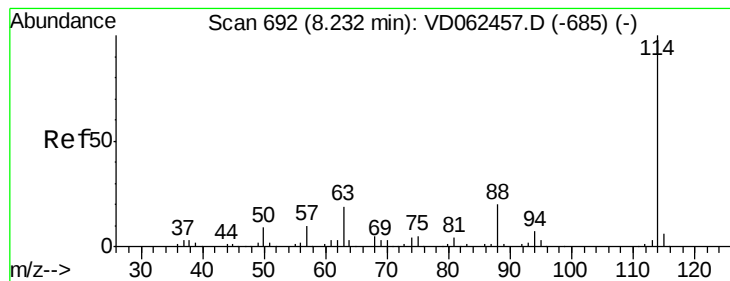
Tot Ion: 56 Resp: 8085
Ion Ratio Lower Upper
56 100
69 223.6 25.8 38.6#
84 89.8 72.2 108.4



#33
1,2-Dichloroethane-d4
Concen: 37.374 ug/l
RT: 7.44 min Scan# 612
Delta R.T. -0.02 min
Lab File: VD062522.D
Acq: 23 May 2019 15:14

Tgt Ion: 65 Resp: 177696
Ion Ratio Lower Upper
65 100
67 44.3 0.0 98.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 690

Delta R.T. -0.02 min

Lab File: VD062522.D

Acq: 23 May 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

P-7(4.5-5.0)

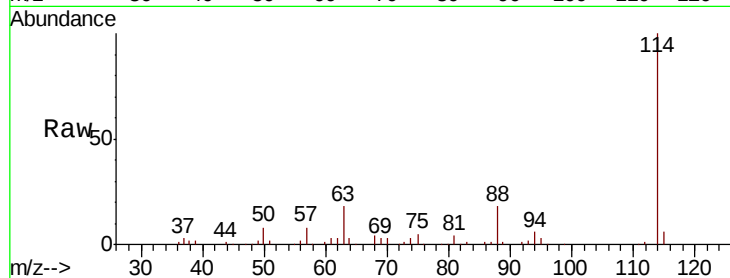
Tot Ion:114 Resp: 610167

Ion Ratio Lower Upper

114 100

63 18.2 0.0 32.4

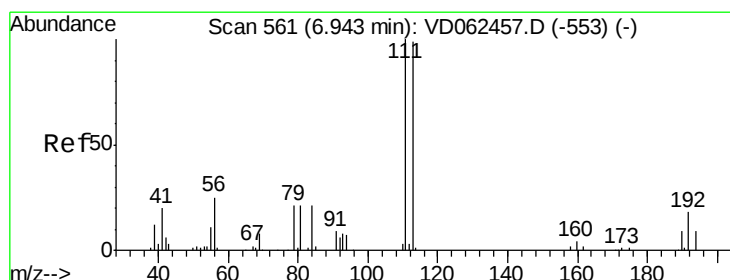
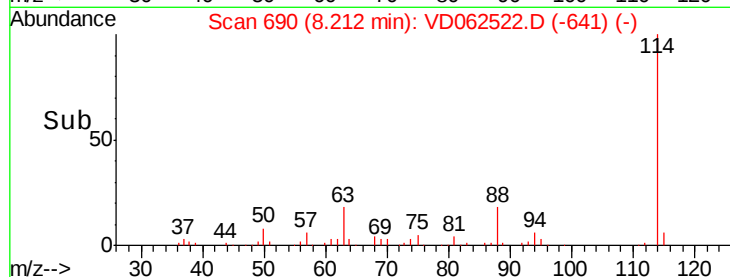
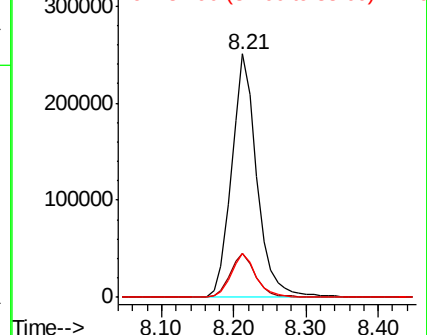
88 18.1 0.0 33.6



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: 40.020 ug/l

RT: 6.92 min Scan# 559

Delta R.T. -0.02 min

Lab File: VD062522.D

Acq: 23 May 2019 15:14

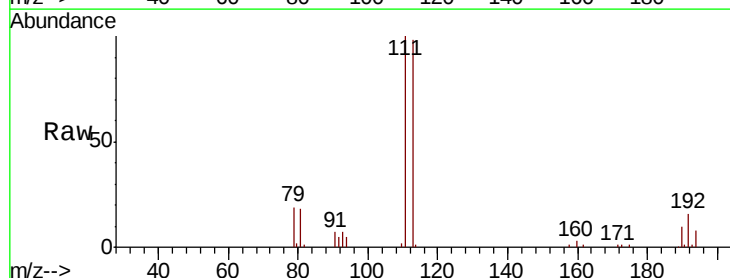
Tgt Ion:113 Resp: 220286

Ion Ratio Lower Upper

113 100

111 102.5 78.5 117.7

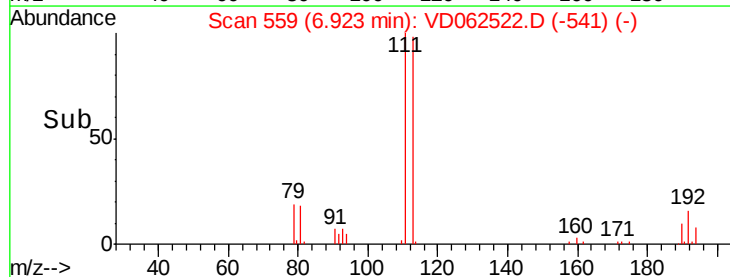
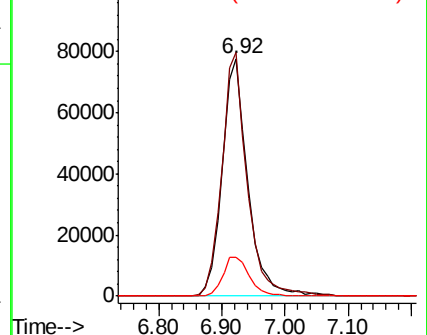
192 16.2 13.0 19.4

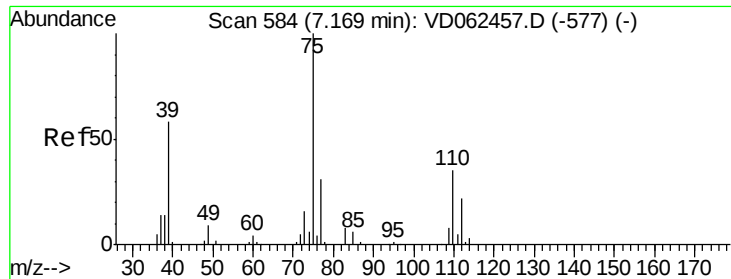


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

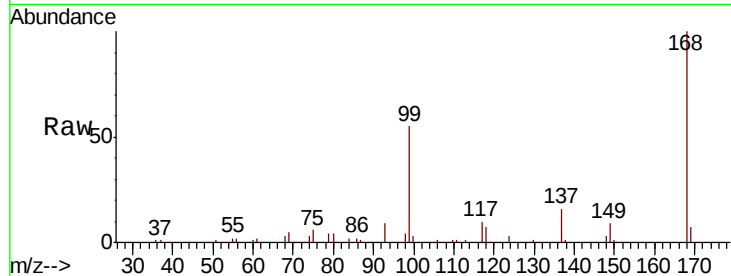




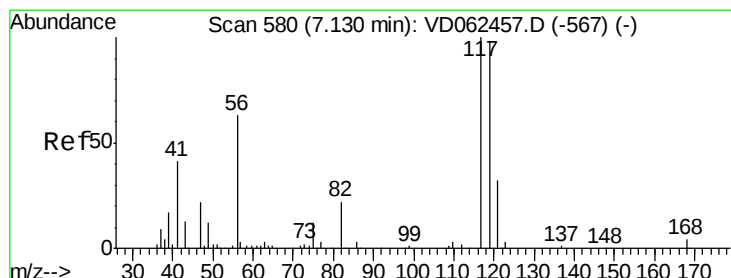
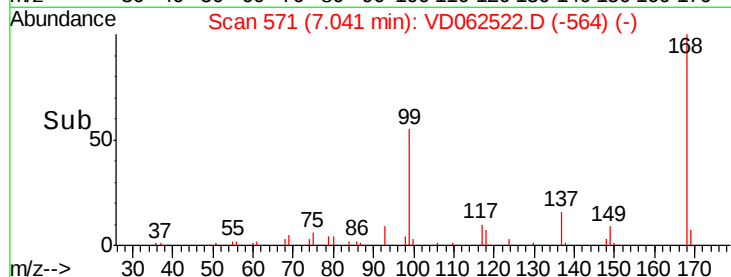
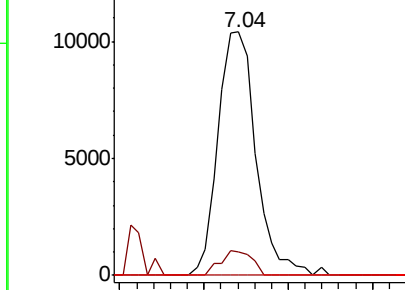
#36
 1,1-Dichloropropene
 Concen: 5.601 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.13 min
 Lab File: VD062522.D
 Acq: 23 May 2019 15:14

Instrument :
 MSVOA_D
 ClientSampled :
 P-7(4.5-5.0)

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.1	57.1#
77	0.0	25.6	38.4#

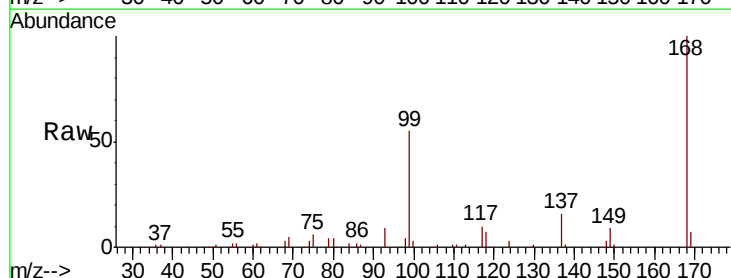


Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): V

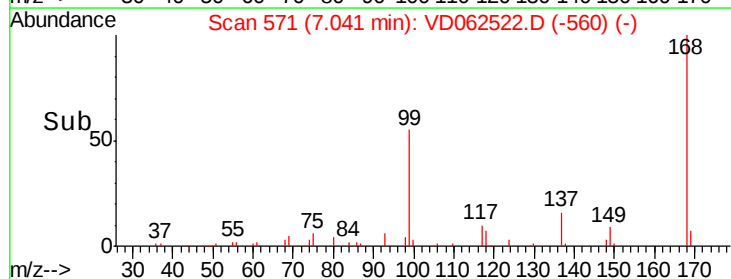
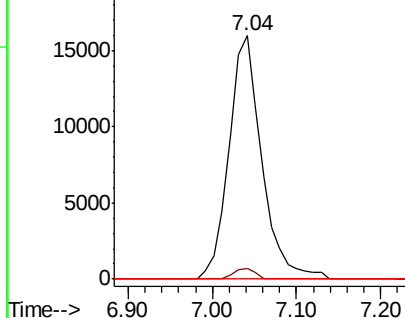


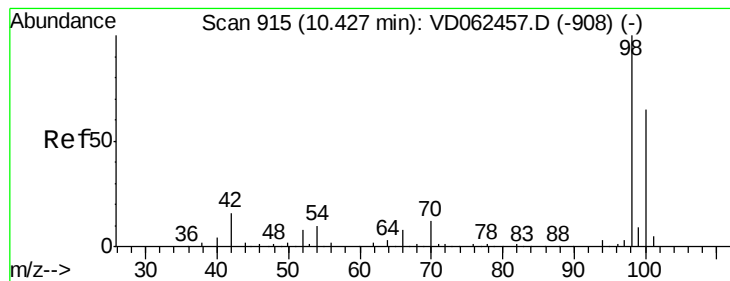
#38
 Carbon Tetrachloride
 Concen: 5.002 ug/l
 RT: 7.04 min Scan# 571
 Delta R.T. -0.09 min
 Lab File: VD062522.D
 Acq: 23 May 2019 15:14

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.6	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





#50

Toluene-d8

Concen: 41.926 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.02 min

Lab File: VD062522.D

Acq: 23 May 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

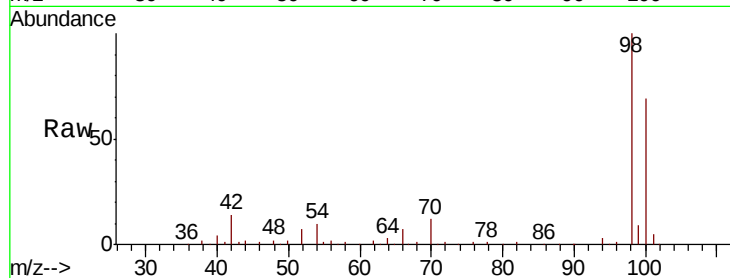
P-7(4.5-5.0)

Tot Ion: 98 Resp: 505038

Ion Ratio Lower Upper

98 100

100 69.1 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VD062457.D (-908) (-)

Ion 100.05 (99.75 to 100.75): VD062457.D (-908) (-)

10.41

250000

200000

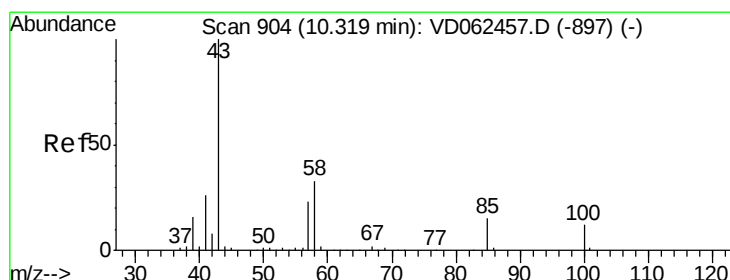
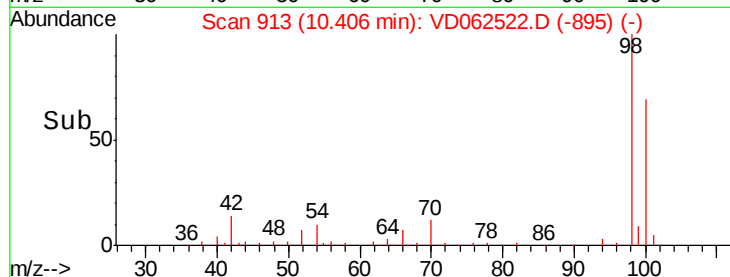
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 3.488 ug/l

RT: 10.36 min Scan# 908

Delta R.T. 0.04 min

Lab File: VD062522.D

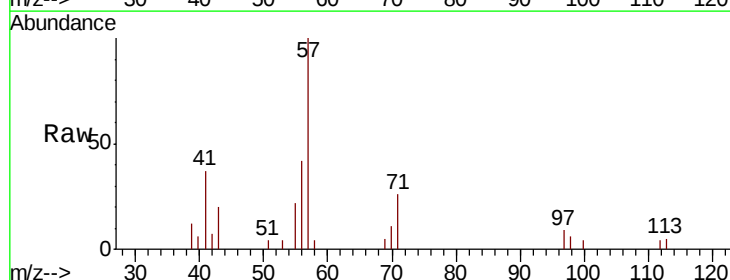
Acq: 23 May 2019 15:14

Tgt Ion: 43 Resp: 6928

Ion Ratio Lower Upper

43 100

58 19.4 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD062457.D (-897) (-)

Ion 57.95 (57.65 to 58.65): VD062457.D (-897) (-)

10.36

2500

2000

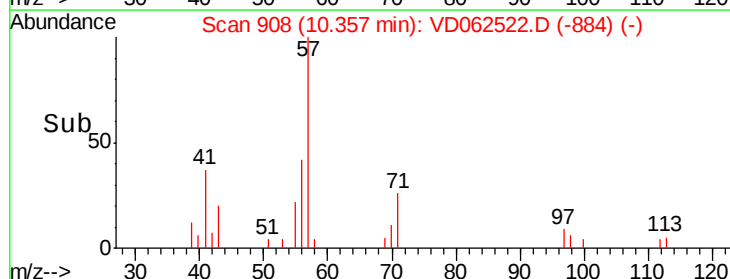
1500

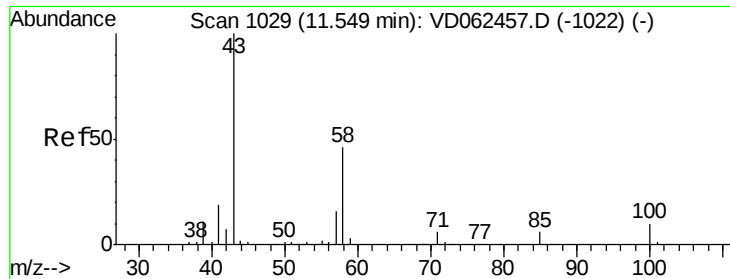
1000

500

0

Time-->

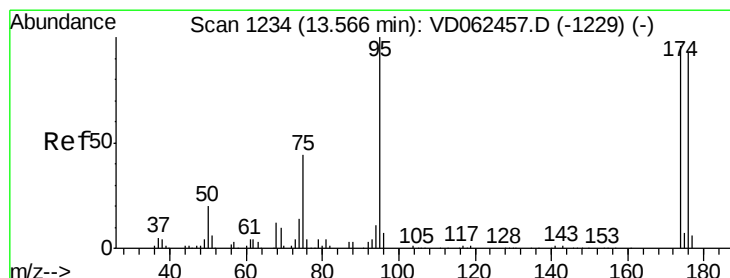
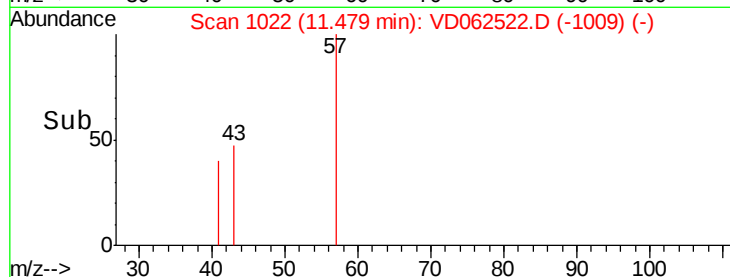
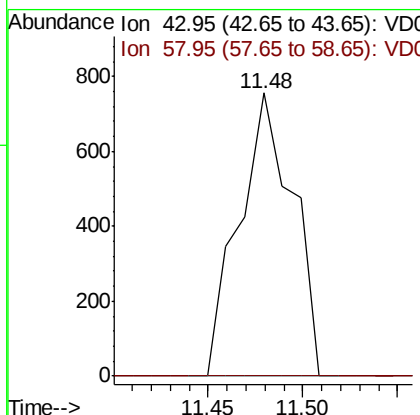
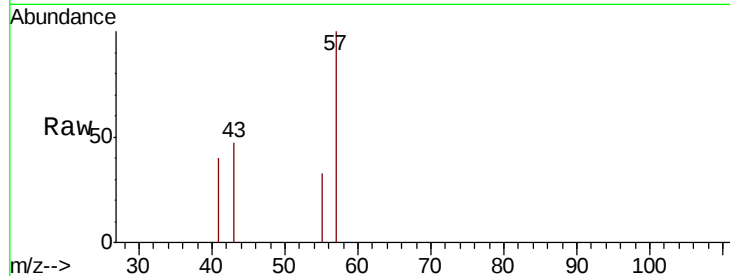




#59
2-Hexanone
Concen: 1.027 ug/l
RT: 11.48 min Scan# 1022
Delta R.T. -0.07 min
Lab File: VD062522.D
Acq: 23 May 2019 15:14

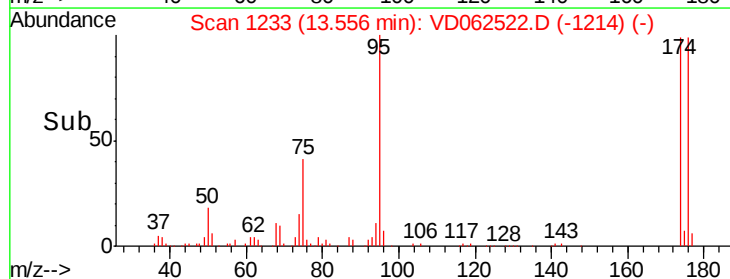
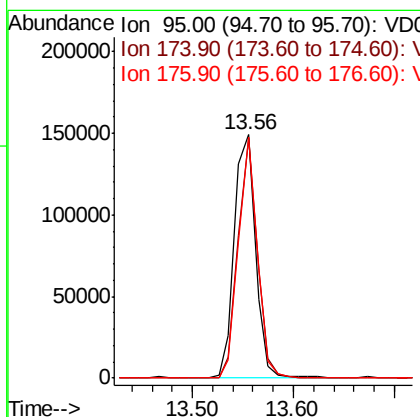
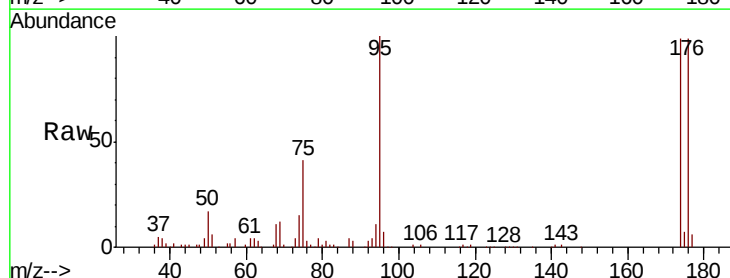
Instrument :
MSVOA_D
ClientSampleId :
P-7(4.5-5.0)

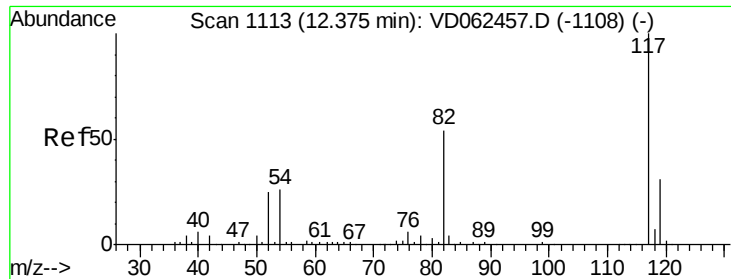
Tot Ion: 43 Resp: 1483
Ion Ratio Lower Upper
43 100
58 0.0 25.4 76.4#



#62
4-Bromofluorobenzene
Concen: 41.568 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. -0.01 min
Lab File: VD062522.D
Acq: 23 May 2019 15:14

Tgt Ion: 95 Resp: 219034
Ion Ratio Lower Upper
95 100
174 98.7 0.0 181.8
176 98.8 0.0 174.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.36 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VD062522.D

Acq: 23 May 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

P-7(4.5-5.0)

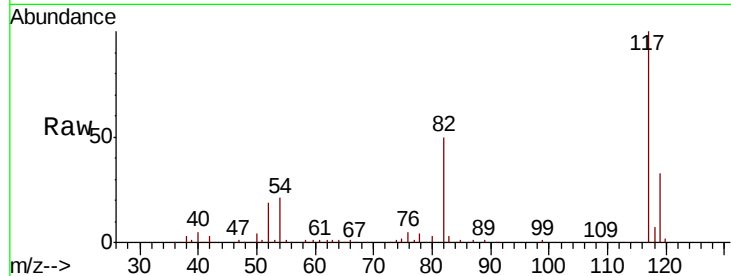
Tot Ion:117 Resp: 539719

Ion Ratio Lower Upper

117 100

82 50.4 36.2 54.2

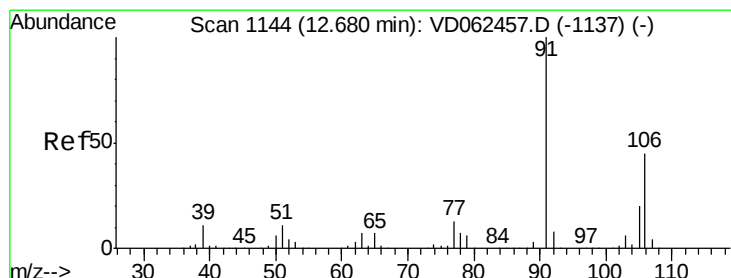
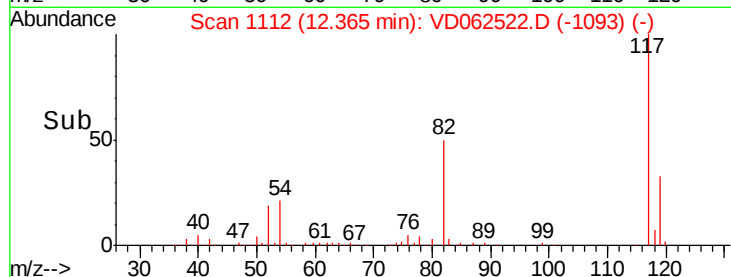
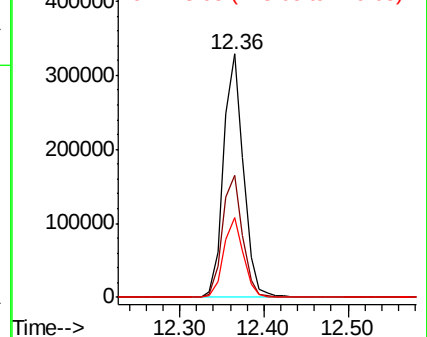
119 32.9 26.2 39.4



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



#68

m/p-Xylenes

Concen: 1.386 ug/l

RT: 12.67 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VD062522.D

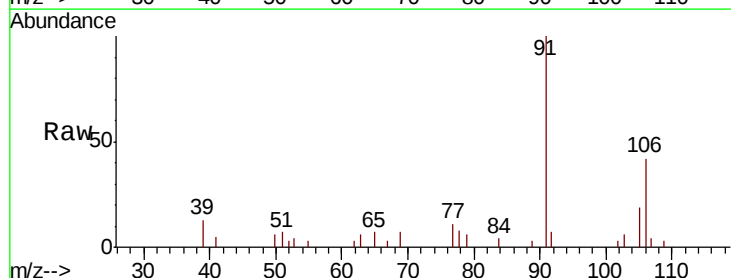
Acq: 23 May 2019 15:14

Tgt Ion:106 Resp: 8896

Ion Ratio Lower Upper

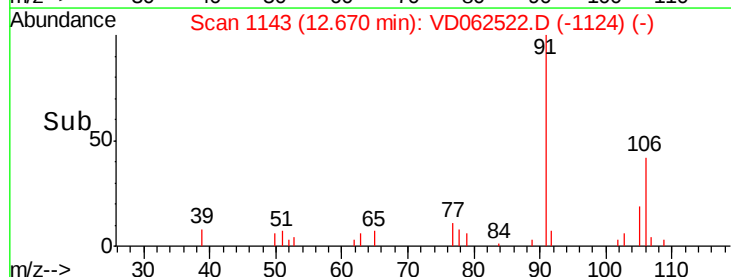
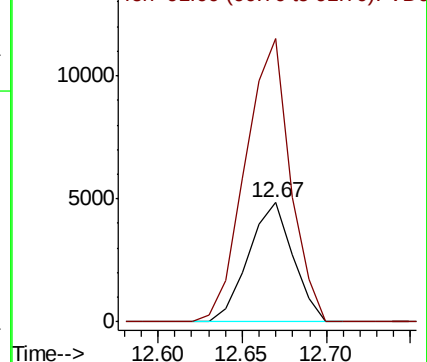
106 100

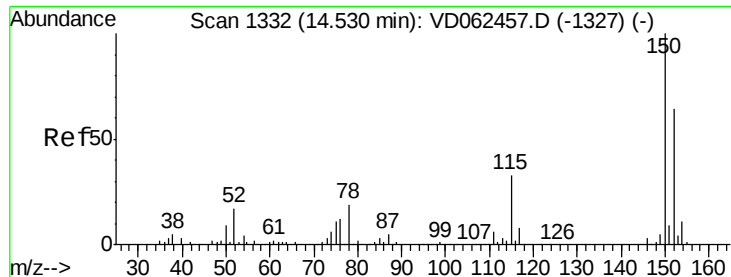
91 237.6 164.0 246.0



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: VD062522.D

Acq: 23 May 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

P-7(4.5-5.0)

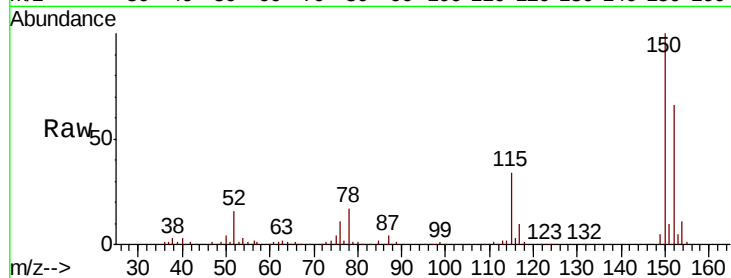
Tot Ion:152 Resp: 248674

Ion Ratio Lower Upper

152 100

115 51.6 30.9 92.7

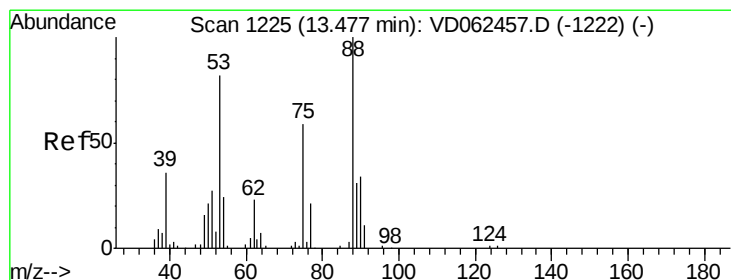
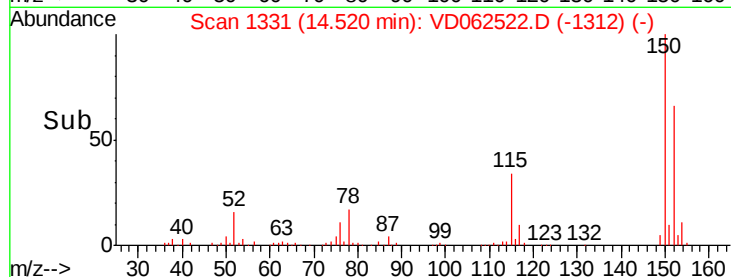
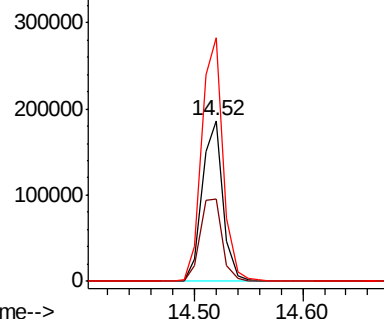
150 151.4 0.0 314.8



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: 115.252 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.08 min

Lab File: VD062522.D

Acq: 23 May 2019 15:14

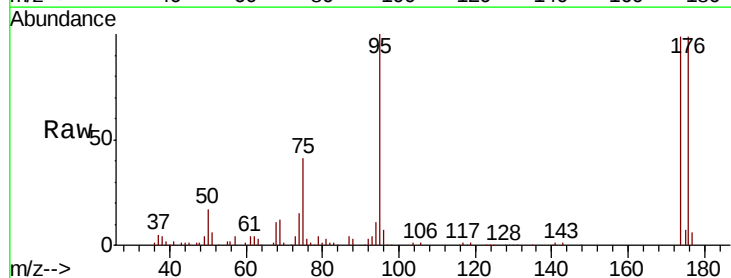
Tgt Ion: 75 Resp: 95208

Ion Ratio Lower Upper

75 100

53 1.2 65.8 98.8#

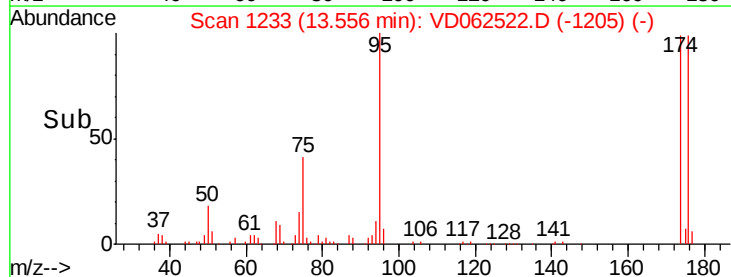
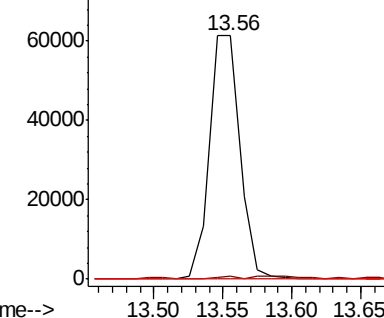
89 0.0 35.0 52.6#

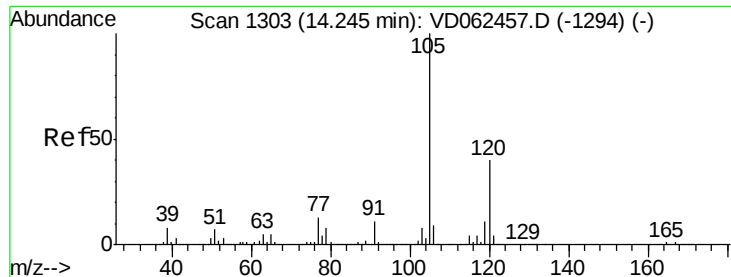


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#84

1,2,4-Trimethylbenzene

Concen: 1.397 ug/l

RT: 14.23 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VD062522.D

Acq: 23 May 2019 15:14

Instrument :

MSVOA_D

ClientSampleId :

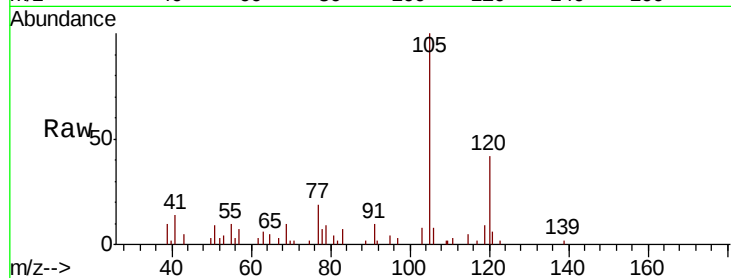
P-7(4.5-5.0)

Tot Ion:105 Resp: 19425

Ion Ratio Lower Upper

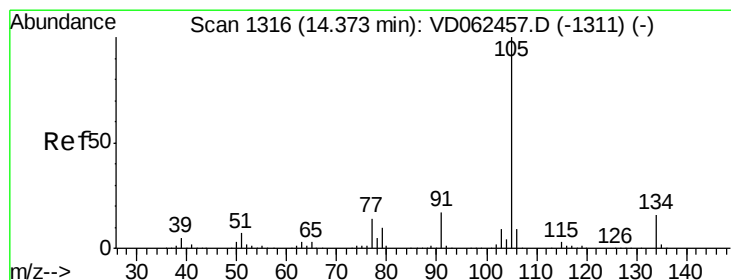
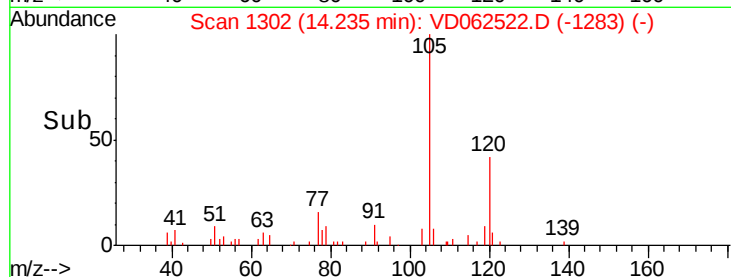
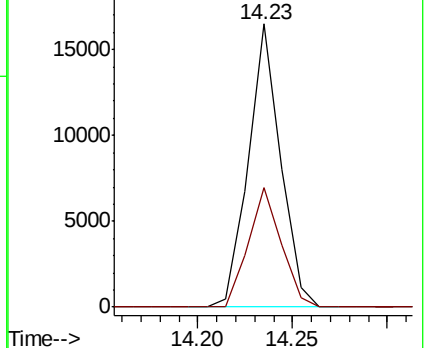
105 100

120 42.3 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#85

sec-Butylbenzene

Concen: 1.237 ug/l

RT: 14.23 min Scan# 1302

Delta R.T. -0.14 min

Lab File: VD062522.D

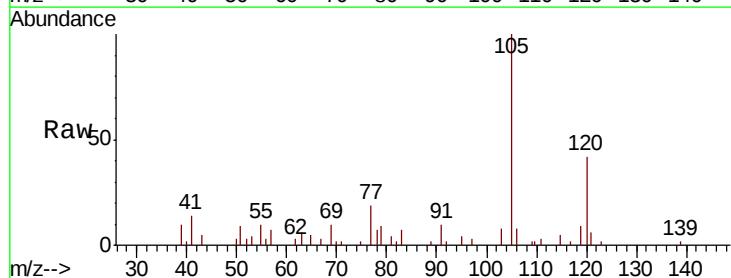
Acq: 23 May 2019 15:14

Tgt Ion:105 Resp: 19423

Ion Ratio Lower Upper

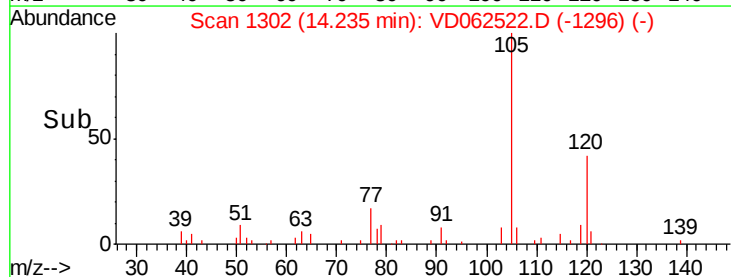
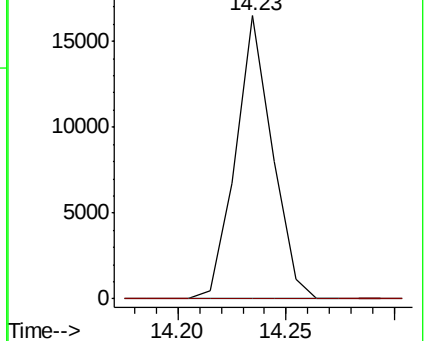
105 100

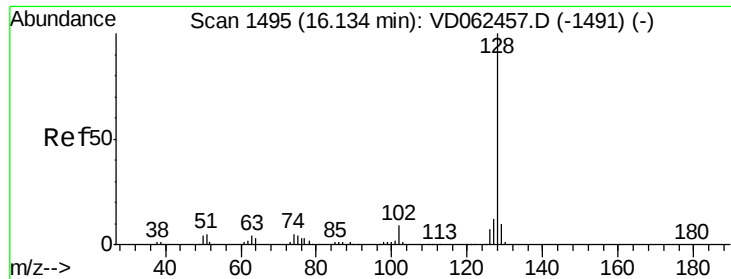
134 0.0 8.9 26.7#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V





#95
 Naphthalene
 Concen: 1.205 ug/l
 RT: 16.12 min Scan# 1494
 Delta R.T. -0.01 min
 Lab File: VD062522.D
 Acq: 23 May 2019 15:14

Instrument :
 MSVOA_D
 ClientSampleId :
 P-7(4.5-5.0)

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.6	9.8	14.8
129	10.1	8.8	13.2

