

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041619\
 Data File : VD061815.D
 Acq On : 16 Apr 2019 17:03
 Operator : VA/AP
 Sample : K2358-10
 Misc : 4.88g/5ml/MSVOA_D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-7-S2

Quant Time: Apr 16 17:29:25 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

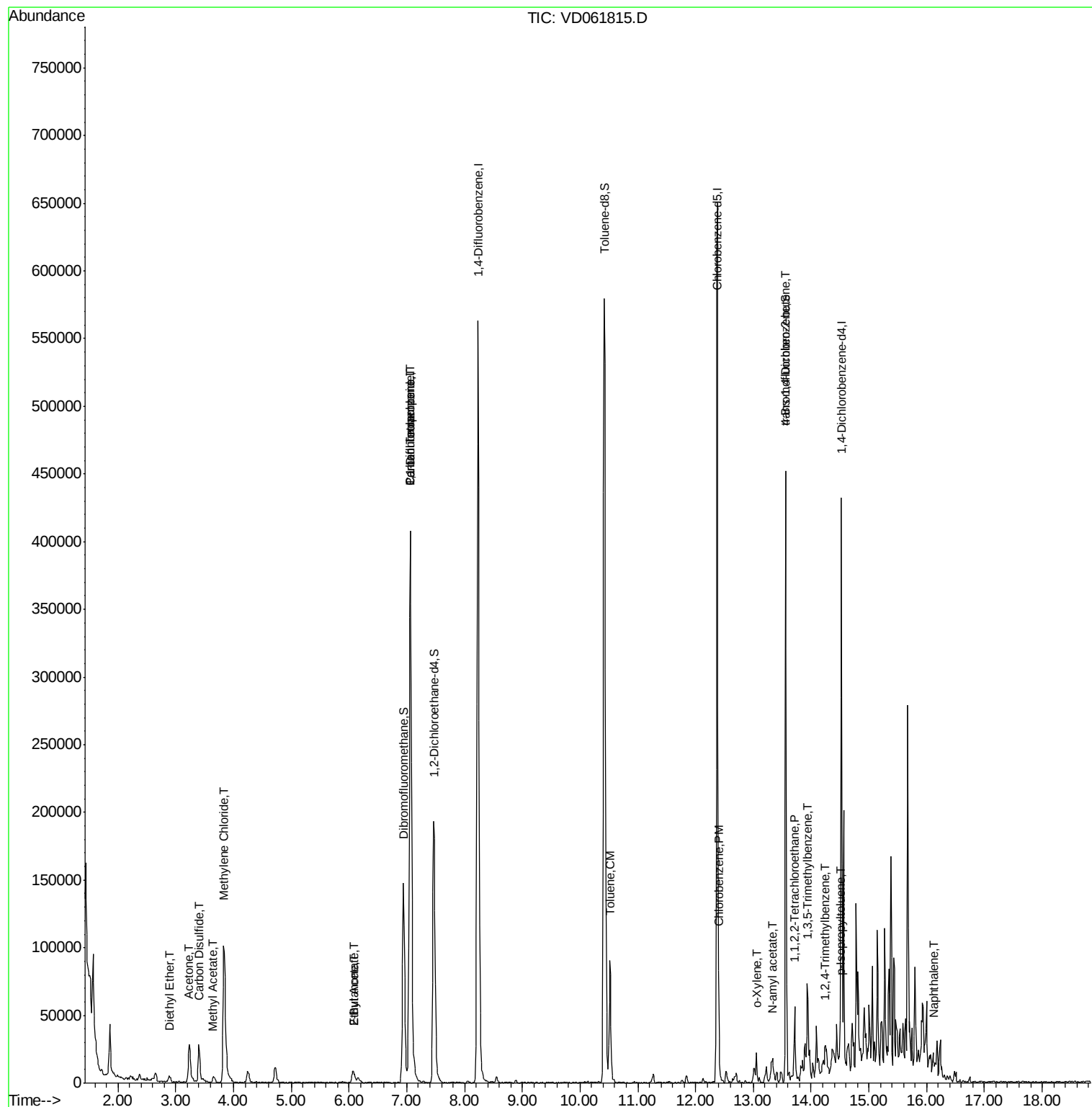
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	427452	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.23	114	692007	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.38	117	422925	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	98341	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.47	65	190451	53.16	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	106.32%	
35) Dibromofluoromethane	6.94	113	146672	28.05	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	56.10%	
50) Toluene-d8	10.42	98	537764	43.41	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	86.82%	
62) 4-Bromofluorobenzene	13.56	95	143102	28.50	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	57.00%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.16	94	386	Below Cal	#	12
8) Diethyl Ether	2.89	74	2149	1.532	ug/l	92
16) Acetone	3.23	43	54519	61.747	ug/l	99
17) Carbon Disulfide	3.40	76	53539	4.130	ug/l	98
18) Methyl Acetate	3.66	43	9816	5.547	ug/l #	88
20) Methylene Chloride	3.83	84	82086	15.542	ug/l	98
25) 2-Butanone	6.09	43	13150	13.082	ug/l #	83
36) 1,1-Dichloropropene	7.06	75	29632	5.240	ug/l #	46
37) Ethyl Acetate	6.09	43	13149	5.433	ug/l #	89
38) Carbon Tetrachloride	7.06	117	41149	5.763	ug/l #	15
52) Toluene	10.52	92	50616	5.818	ug/l	94
65) Chlorobenzene	12.41	112	10532	1.337	ug/l	100
69) o-Xylene	13.06	106	5748	1.291	ug/l	95
74) N-amyl acetate	13.33	43	5794	3.378	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	13.72	83	2548	2.021	ug/l #	25
80) 1,3,5-Trimethylbenzene	13.93	105	30524	6.032	ug/l	98
81) trans-1,4-Dichloro-2-buten	13.56	75	51913	119.098	ug/l #	16
84) 1,2,4-Trimethylbenzene	14.24	105	6743	1.326	ug/l	96
86) p-Isopropyltoluene	14.49	119	6284	1.093	ug/l	91
92) 1,2-Dibromo-3-Chloropropan	15.38	75	185	Below Cal	#	1
95) Naphthalene	16.13	128	5167	2.317	ug/l	96

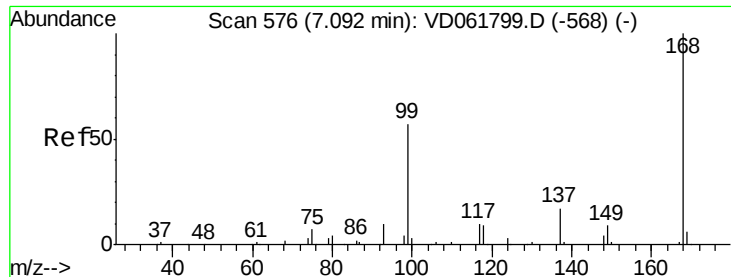
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 16 08:53:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.03 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

Instrument :

MSVOA_D

ClientSampleId :

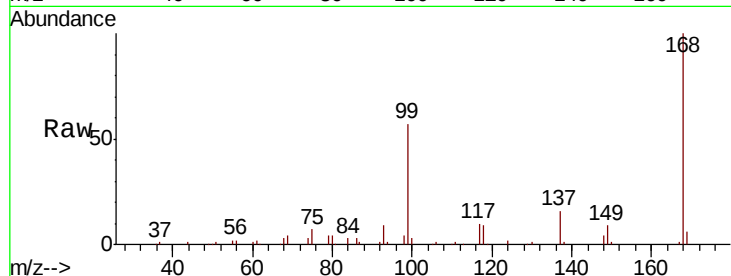
TP-7-S2

Tgt Ion:168 Resp: 427452

Ion Ratio Lower Upper

168 100

99 56.6 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.06

150000

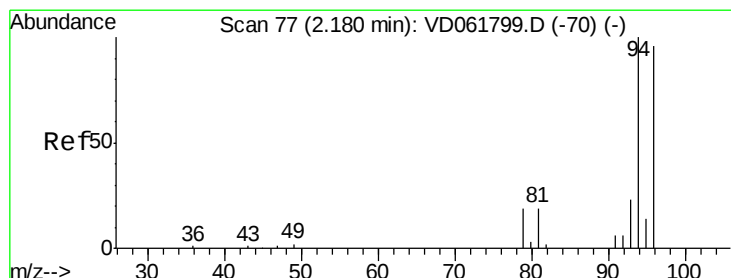
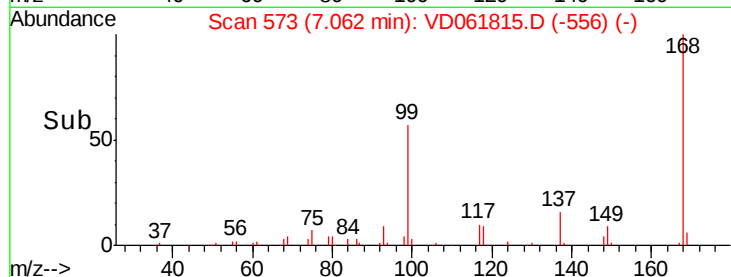
100000

50000

0

Time-->

6.90 7.00 7.10 7.20 7.30



#5

Bromomethane

Concen: Below Cal

RT: 2.16 min Scan# 75

Delta R.T. -0.02 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

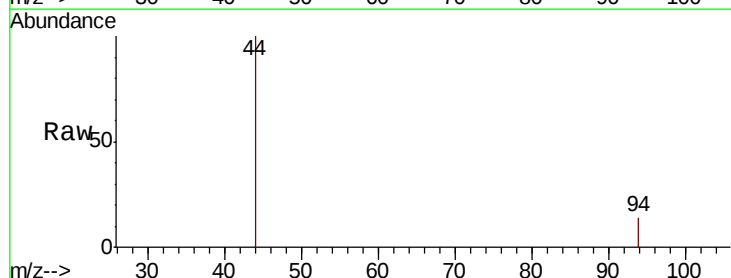
Tgt Ion: 94 Resp: 386

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

500

400

300

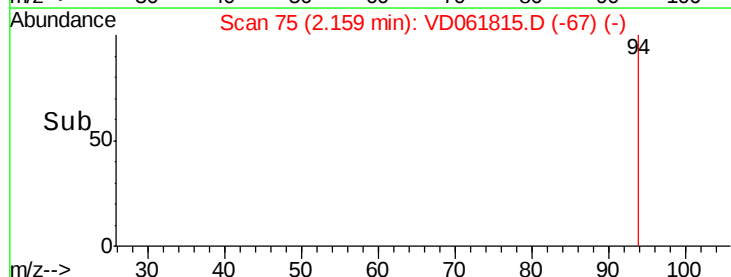
200

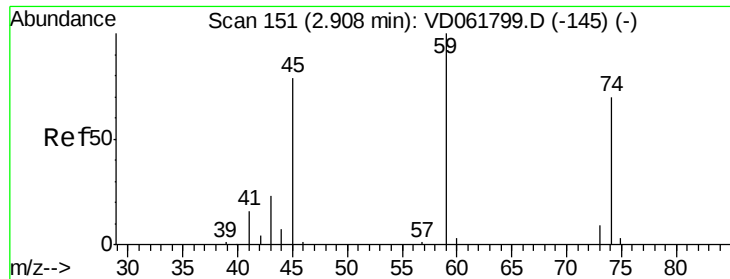
100

0

Time-->

2.14 2.16 2.18 2.20





#8

Diethyl Ether

Concen: 1.532 ug/l

RT: 2.89 min Scan# 149

Delta R.T. -0.02 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

Instrument :

MSVOA_D

ClientSampleId :

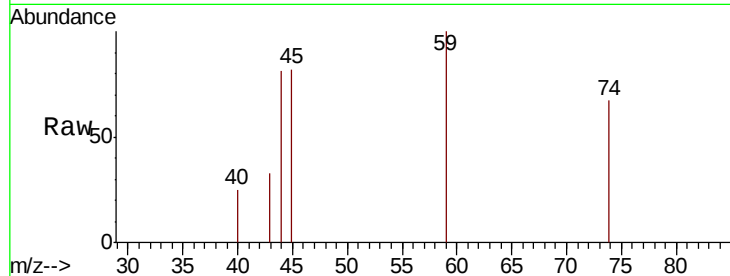
TP-7-S2

Tgt Ion: 74 Resp: 2149

Ion Ratio Lower Upper

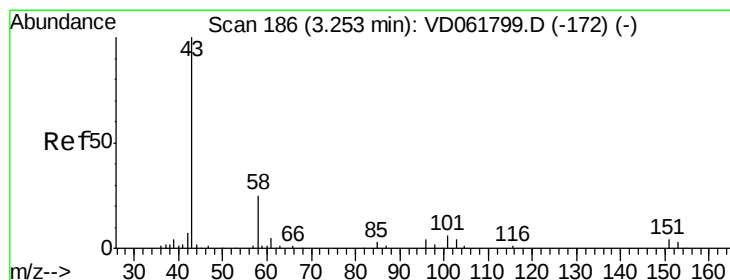
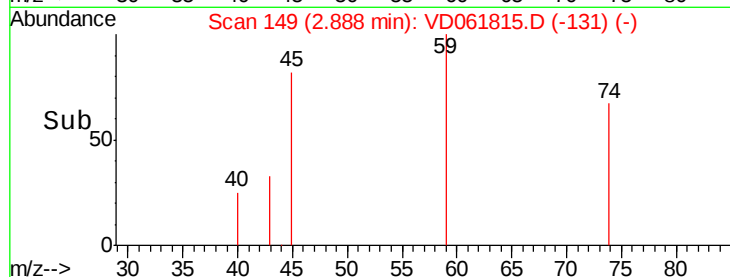
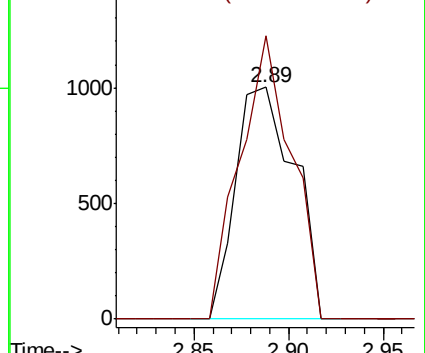
74 100

45 122.2 56.9 170.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC



#16

Acetone

Concen: 61.747 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.02 min

Lab File: VD061815.D

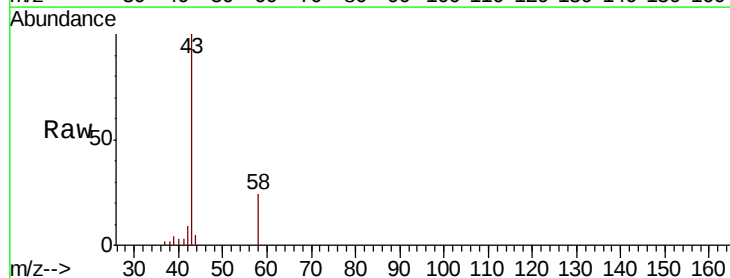
Acq: 16 Apr 2019 17:03

Tgt Ion: 43 Resp: 54519

Ion Ratio Lower Upper

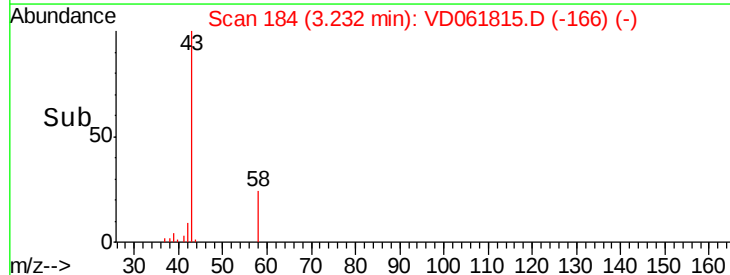
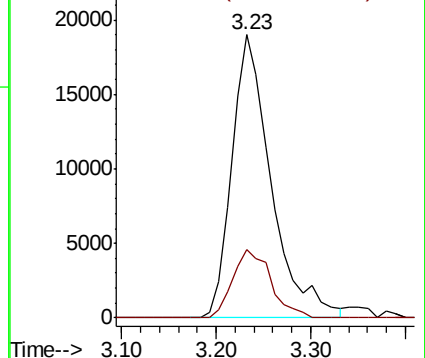
43 100

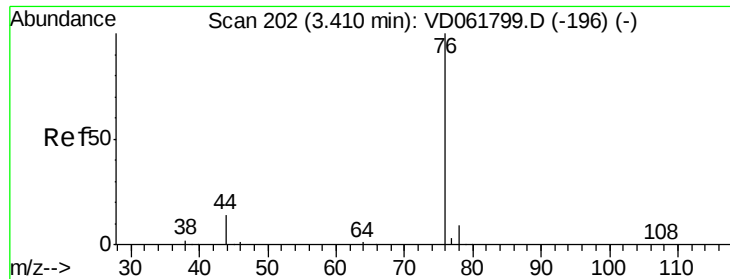
58 24.4 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 4.130 ug/l

RT: 3.40 min Scan# 201

Delta R.T. -0.01 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

Instrument :

MSVOA_D

ClientSampleId :

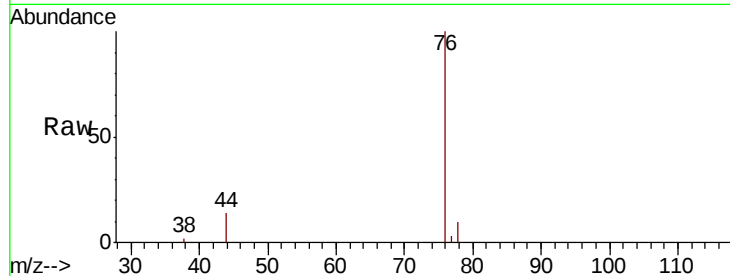
TP-7-S2

Tgt Ion: 76 Resp: 53539

Ion Ratio Lower Upper

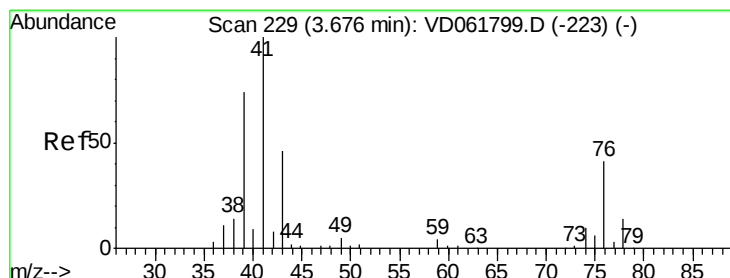
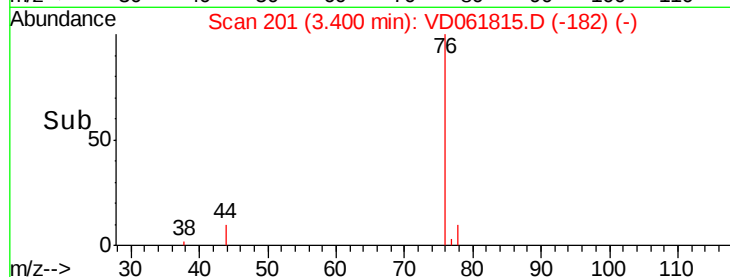
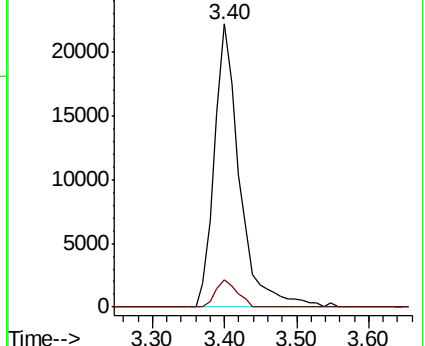
76 100

78 9.7 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: 5.547 ug/l

RT: 3.66 min Scan# 227

Delta R.T. -0.02 min

Lab File: VD061815.D

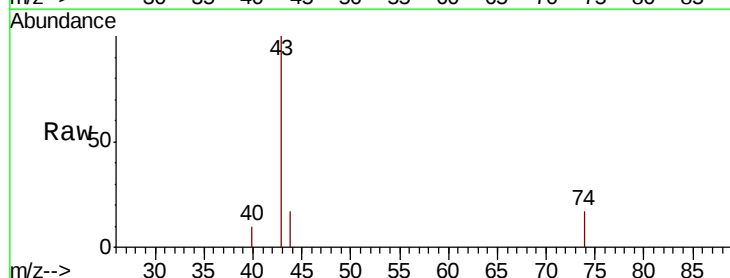
Acq: 16 Apr 2019 17:03

Tgt Ion: 43 Resp: 9816

Ion Ratio Lower Upper

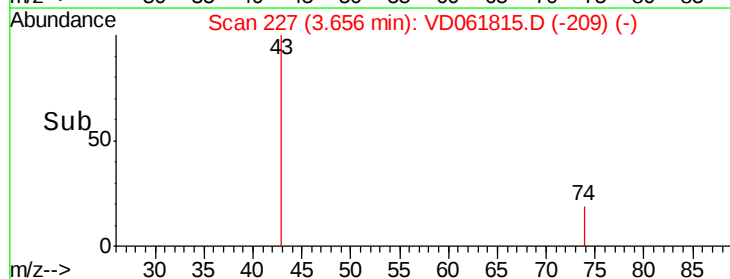
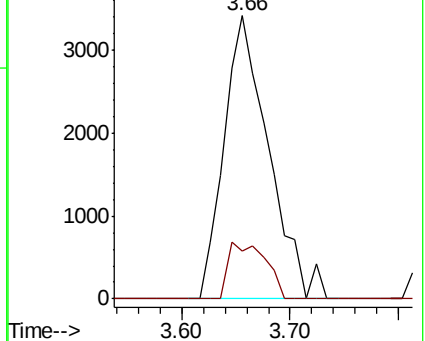
43 100

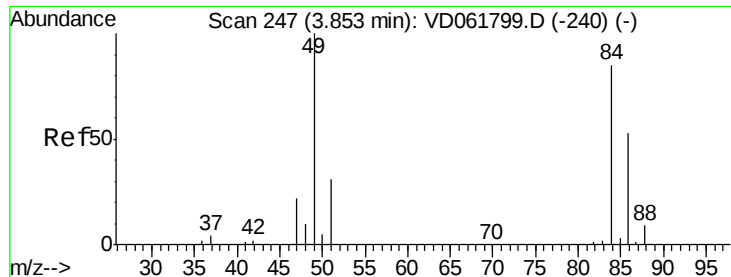
74 16.7 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

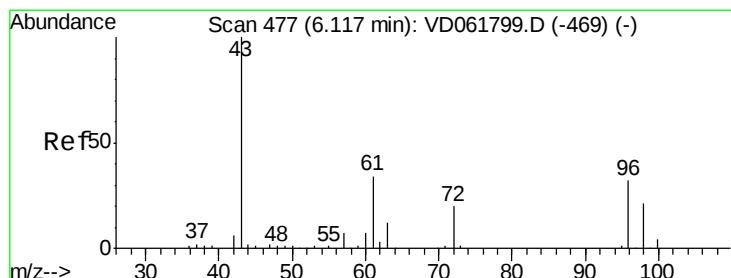
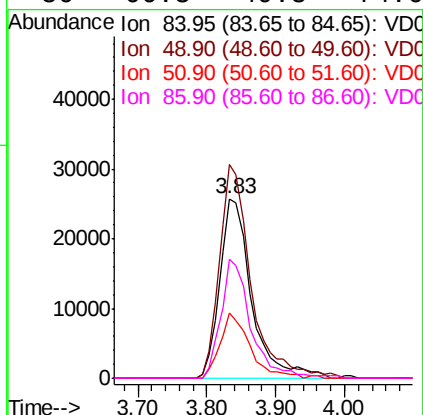
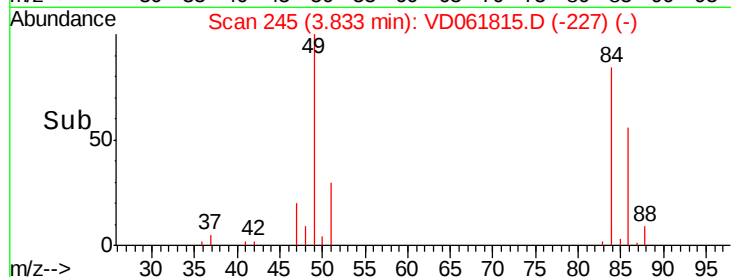
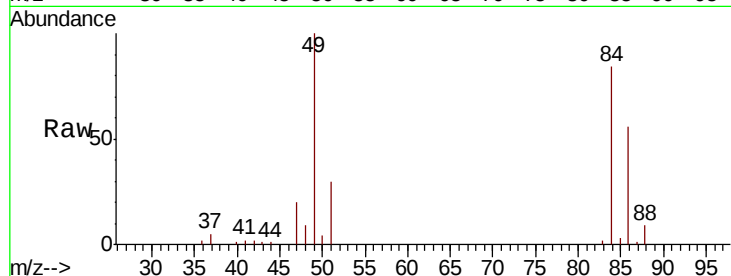




#20
Methylene Chloride
Concen: 15.542 ug/l
RT: 3.83 min Scan# 245
Delta R.T. -0.02 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

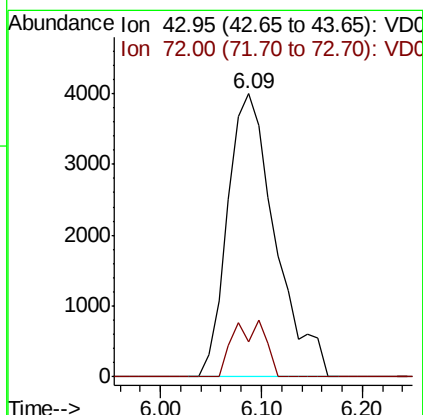
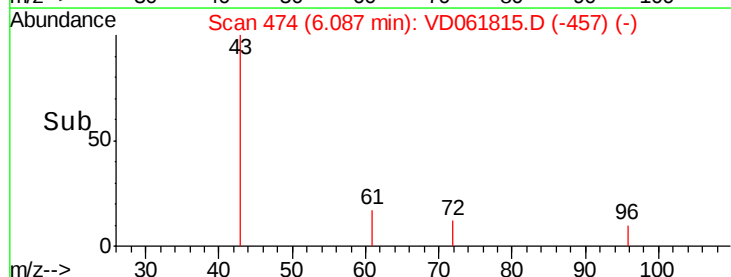
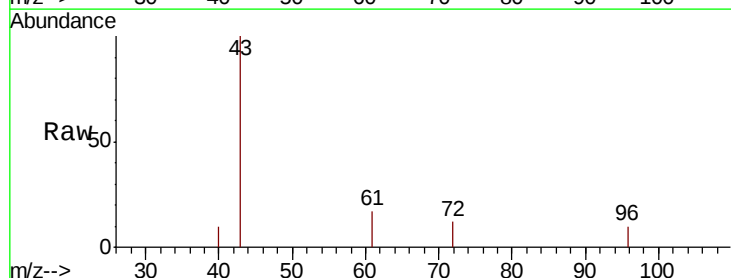
Instrument :
MSVOA_D
ClientSampleId :
TP-7-S2

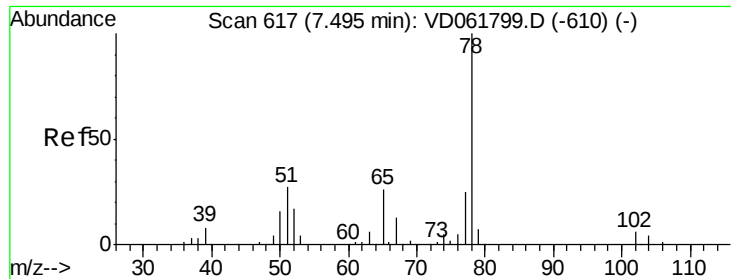
Tgt Ion:	84	Resp:	82086
Ion	Ratio	Lower	Upper
84	100		
49	119.1	94.0	141.0
51	36.1	29.0	43.4
86	66.3	49.8	74.6



#25
2-Butanone
Concen: 13.082 ug/l
RT: 6.09 min Scan# 474
Delta R.T. -0.03 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

Tgt Ion:	43	Resp:	13150
Ion	Ratio	Lower	Upper
43	100		
72	12.3	16.2	24.4#

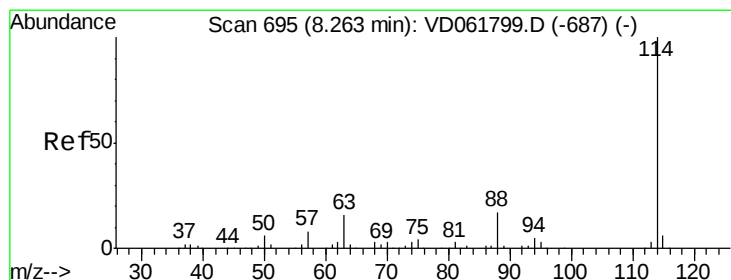
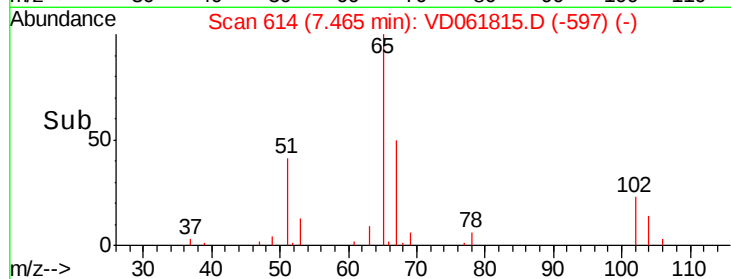
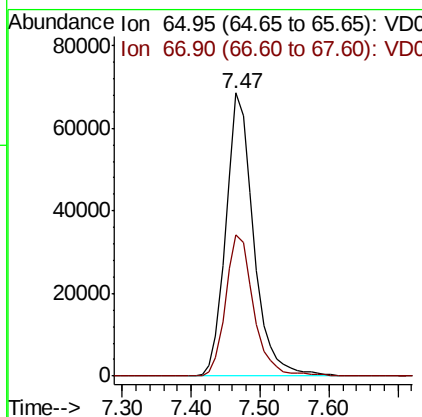
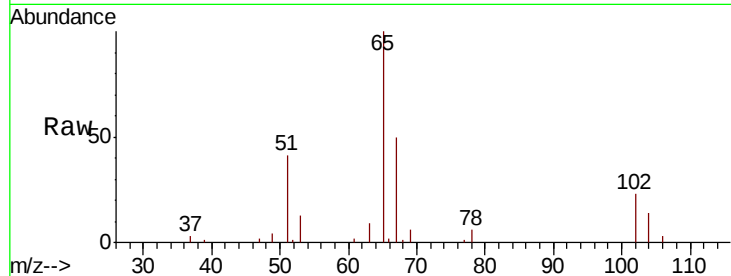




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.47 min Scan# 614
 Delta R.T. -0.03 min
 Lab File: VD061815.D
 Acq: 16 Apr 2019 17:03

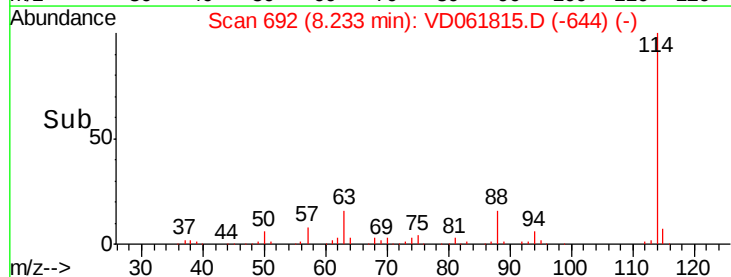
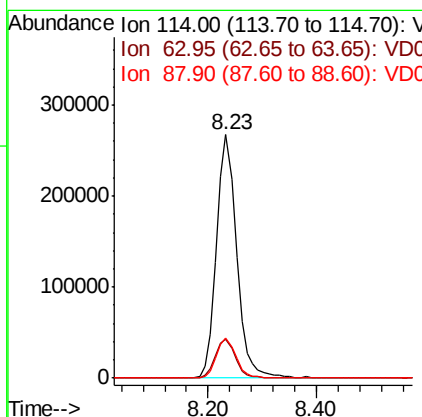
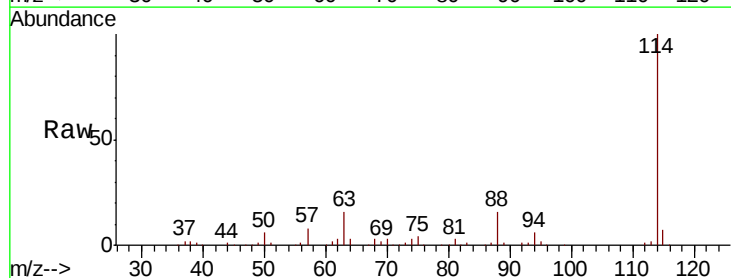
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 ClientSampleId :
 TP-7-S2

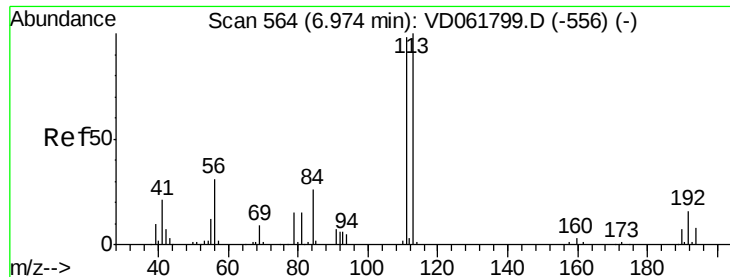
Tgt Ion: 65 Resp: 190451
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. -0.03 min
 Lab File: VD061815.D
 Acq: 16 Apr 2019 17:03

Tgt Ion: 114 Resp: 692007
 Ion Ratio Lower Upper
 114 100
 63 16.1 0.0 32.4
 88 16.3 0.0 33.6

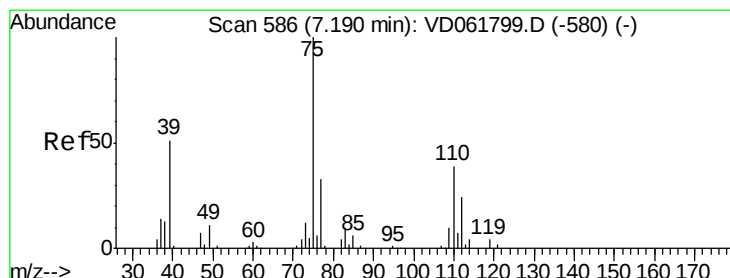
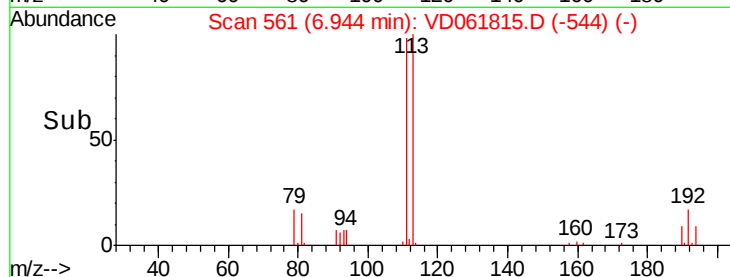
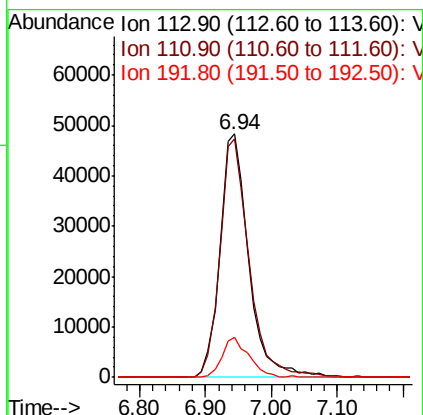
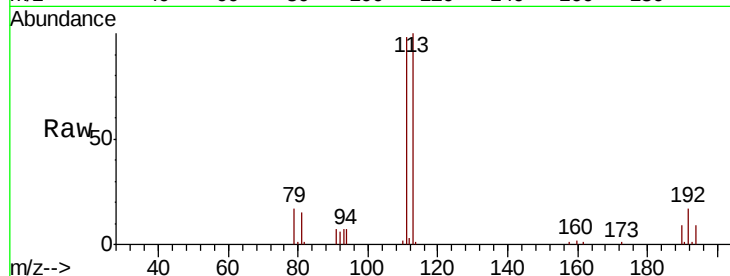




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.94 min Scan# 561
 Delta R.T. -0.03 min
 Lab File: VD061815.D
 Acq: 16 Apr 2019 17:03

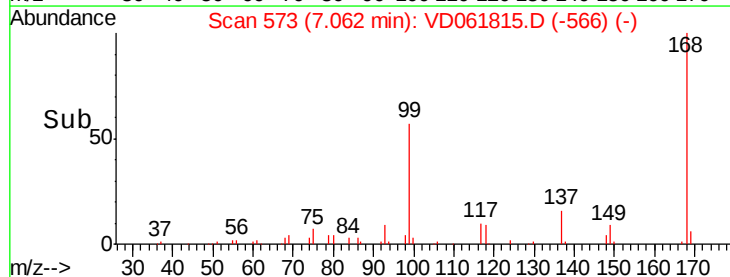
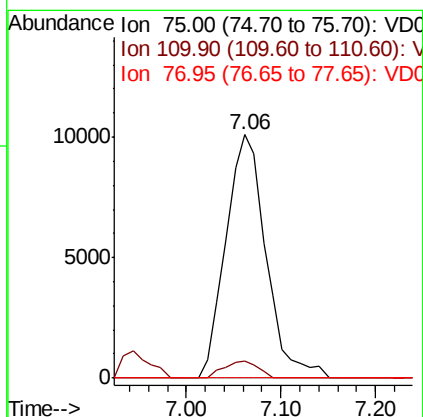
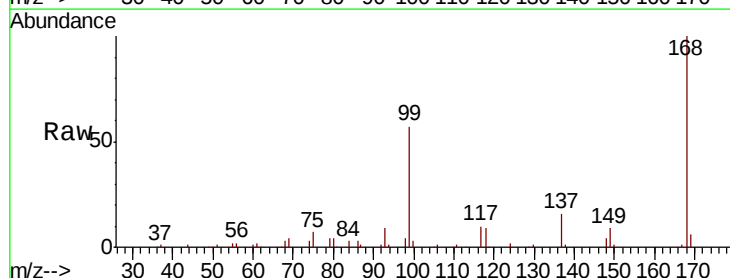
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-7-S2

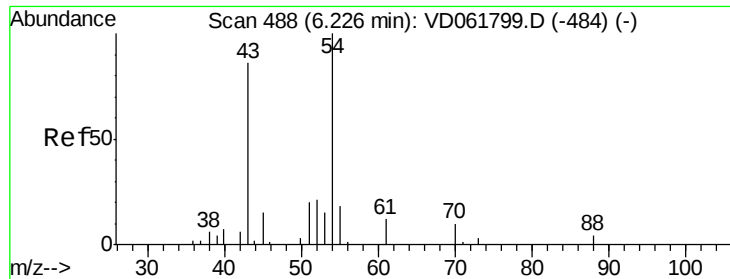
Tgt Ion: 113 Resp: 146672
 Ion Ratio Lower Upper
 113 100
 111 97.8 78.5 117.7
 192 16.6 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 5.240 ug/l
 RT: 7.06 min Scan# 573
 Delta R.T. -0.13 min
 Lab File: VD061815.D
 Acq: 16 Apr 2019 17:03

Tgt Ion: 75 Resp: 29632
 Ion Ratio Lower Upper
 75 100
 110 7.0 19.1 57.1#
 77 0.0 25.6 38.4#

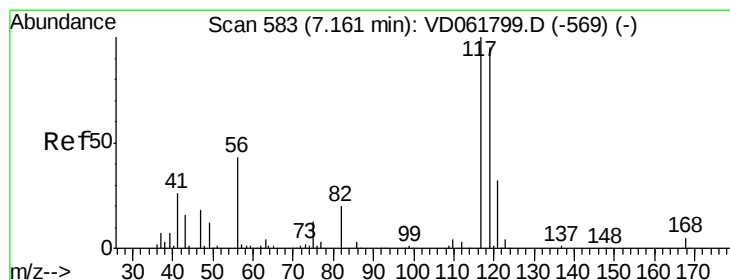
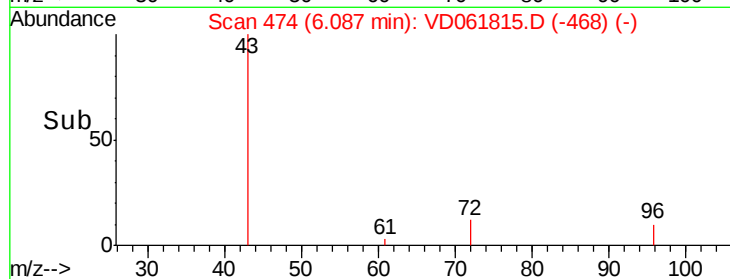
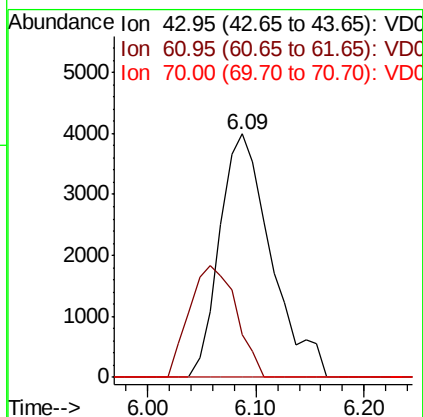
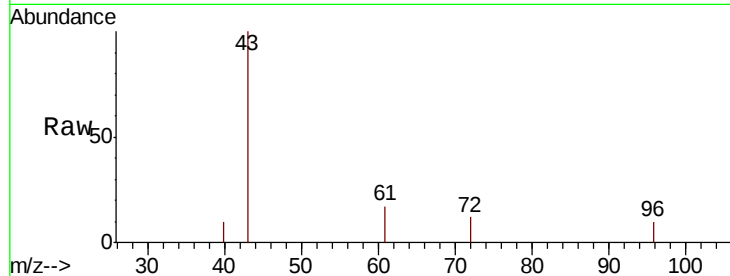




#37
Ethyl Acetate
Concen: 5.433 ug/l
RT: 6.09 min Scan# 474
Delta R.T. -0.14 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

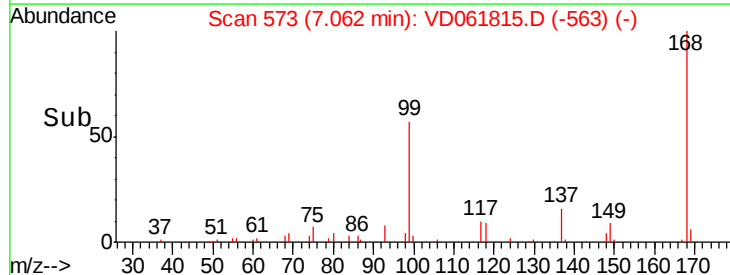
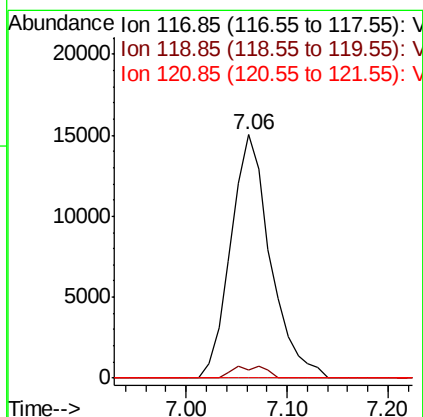
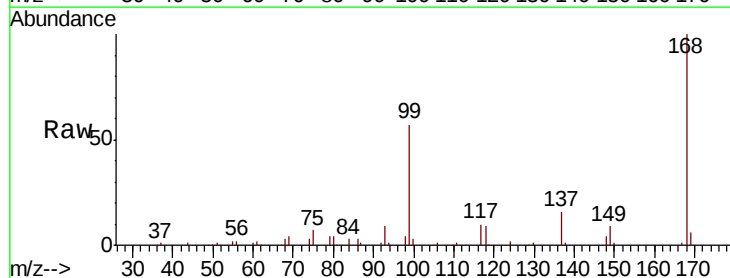
Instrument :
MSVOA_D
ClientSampled :
TP-7-S2

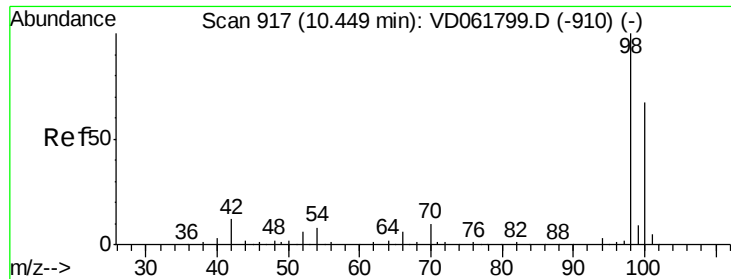
Tgt Ion: 43 Resp: 13149
Ion Ratio Lower Upper
43 100
61 17.3 14.7 22.1
70 0.0 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 5.763 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.10 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

Tgt Ion: 117 Resp: 41149
Ion Ratio Lower Upper
117 100
119 3.3 75.8 113.8#
121 0.0 25.9 38.9#

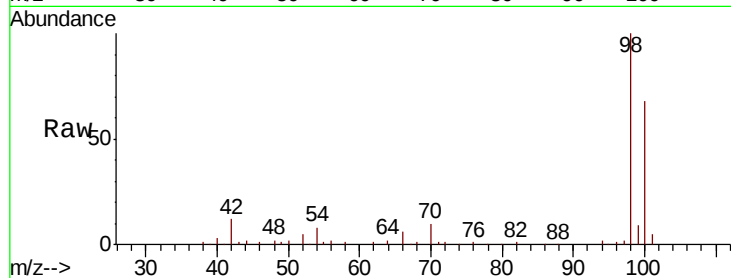




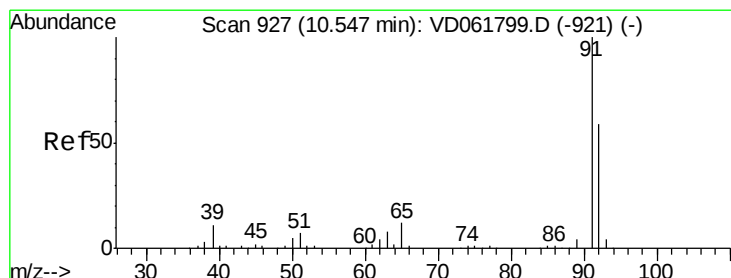
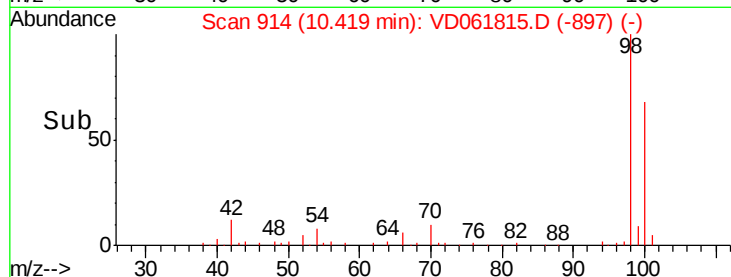
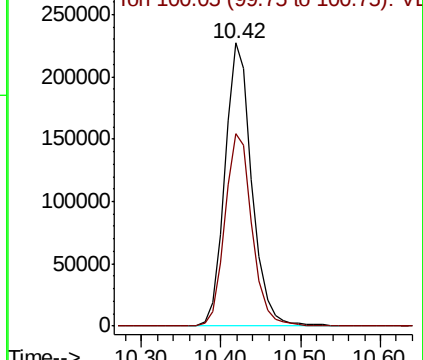
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. -0.03 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

Instrument :
MSVOA_D
ClientSampleId :
TP-7-S2

Tgt Ion: 98 Resp: 537764
Ion Ratio Lower Upper
98 100
100 67.8 53.8 80.8

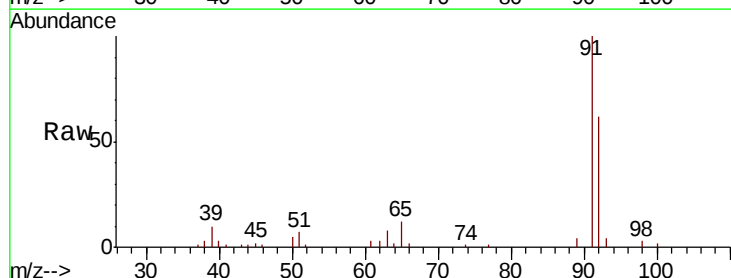


Abundance Ion 98.05 (97.75 to 98.75): VD061799.D (-910) (-)
Ion 100.05 (99.75 to 100.75): VD061799.D (-910) (-)

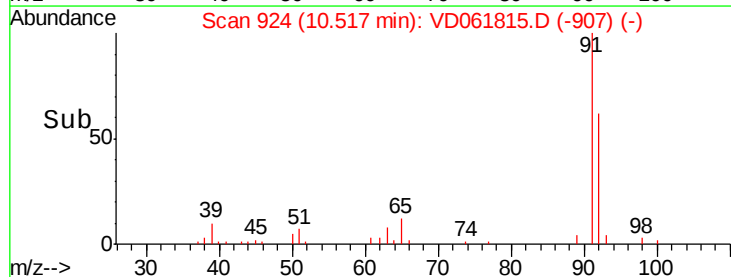
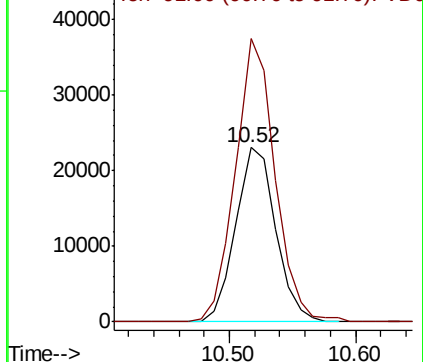


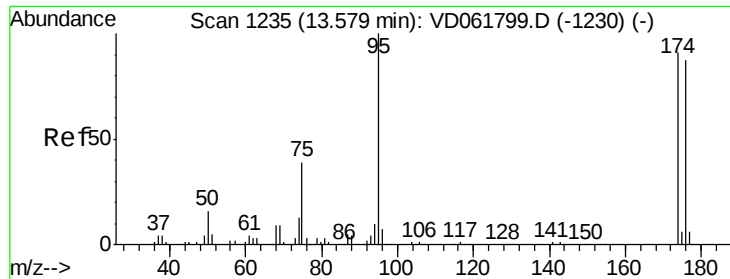
#52
Toluene
Concen: 5.818 ug/l
RT: 10.52 min Scan# 924
Delta R.T. -0.03 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

Tgt Ion: 92 Resp: 50616
Ion Ratio Lower Upper
92 100
91 162.3 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VD061799.D (-921) (-)
Ion 91.00 (90.70 to 91.70): VD061799.D (-921) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

Instrument :

MSVOA_D

ClientSampleId :

TP-7-S2

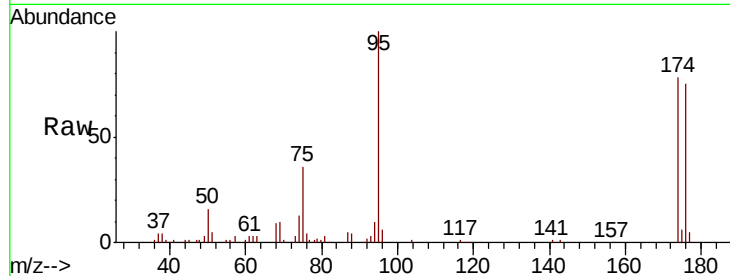
Tgt Ion: 95 Resp: 143102

Ion Ratio Lower Upper

95 100

174 78.4 0.0 181.8

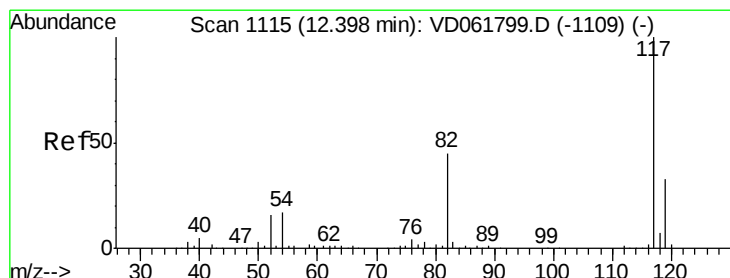
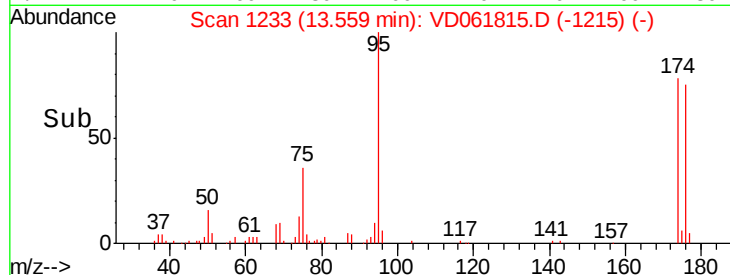
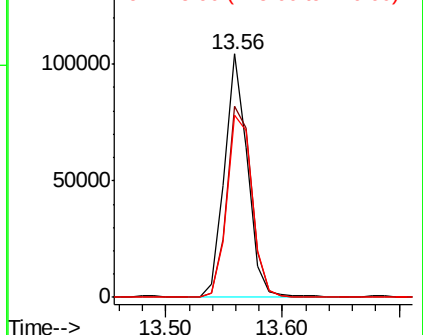
176 74.8 0.0 174.4



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: 12.38 min Scan# 1113

Delta R.T. -0.02 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

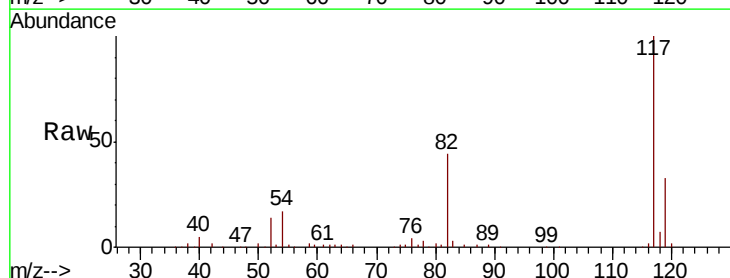
Tgt Ion: 117 Resp: 422925

Ion Ratio Lower Upper

117 100

82 44.3 36.2 54.2

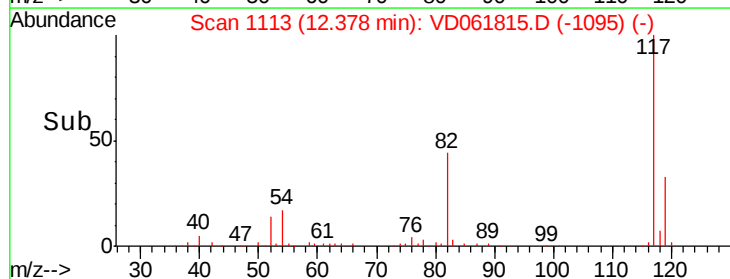
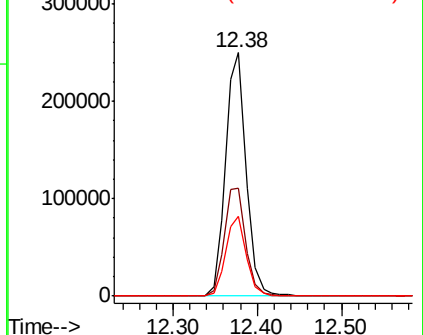
119 33.0 26.2 39.4

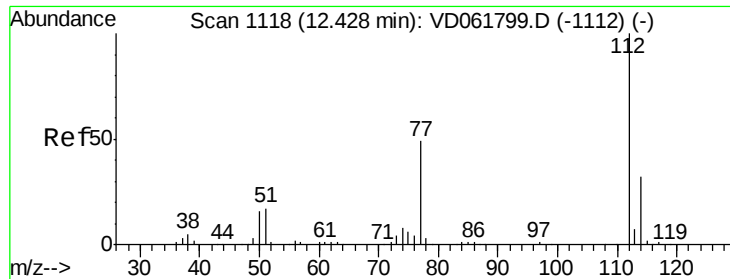


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

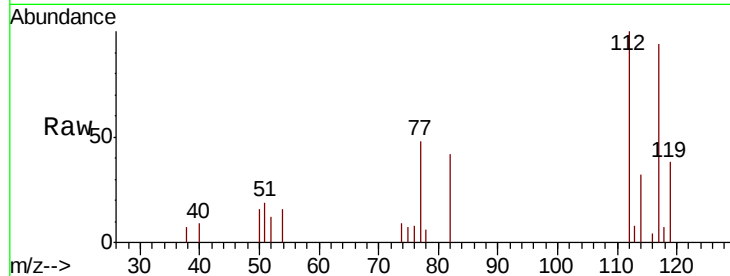




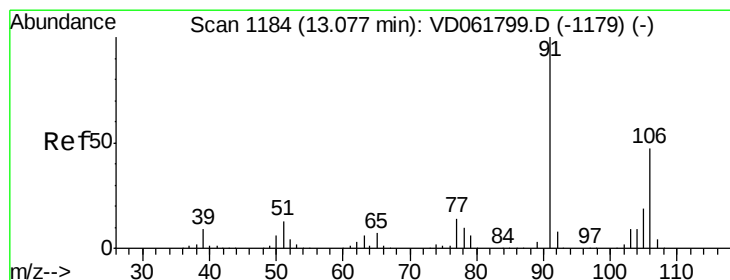
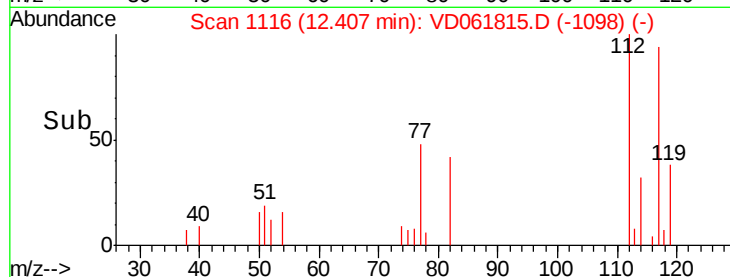
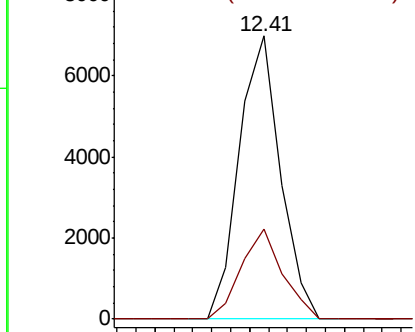
#65
Chlorobenzene
Concen: 1.337 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. -0.02 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

Instrument :
MSVOA_D
ClientSampleId :
TP-7-S2

Tgt Ion:112 Resp: 10532
Ion Ratio Lower Upper
112 100
114 32.0 25.8 38.8

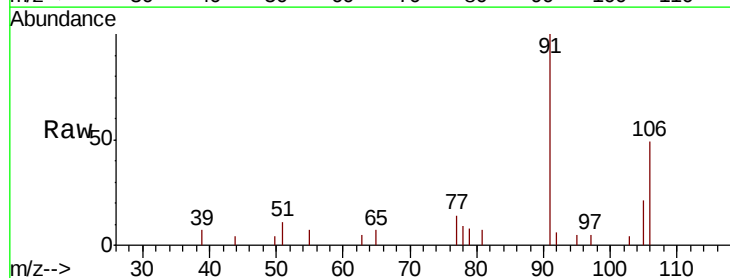


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

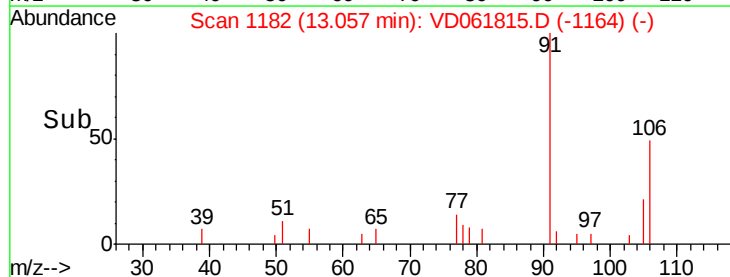
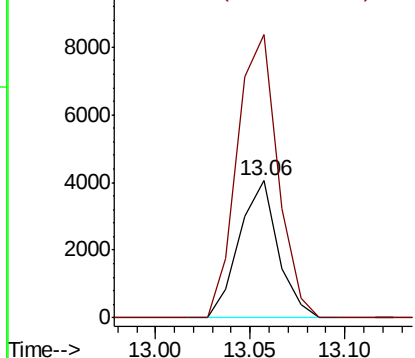


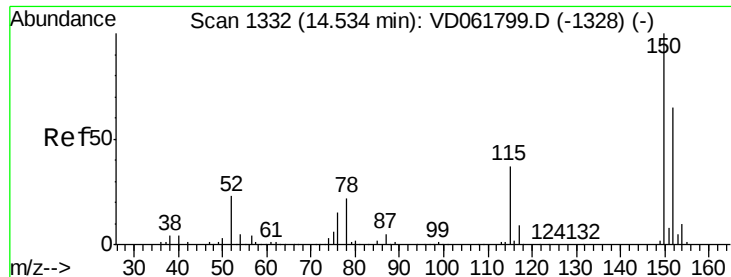
#69
o-Xylene
Concen: 1.291 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.02 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

Tgt Ion:106 Resp: 5748
Ion Ratio Lower Upper
106 100
91 206.1 106.7 319.9



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: VD061815.D

Acq: 16 Apr 2019 17:03

Instrument :

MSVOA_D

ClientSampleId :

TP-7-S2

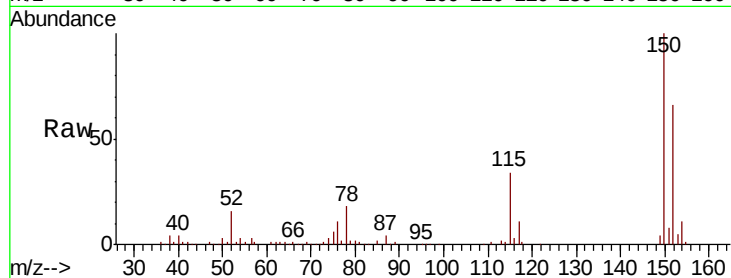
Tgt Ion:152 Resp: 98341

Ion Ratio Lower Upper

152 100

115 52.2 30.9 92.7

150 151.6 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

150000

100000

50000

0

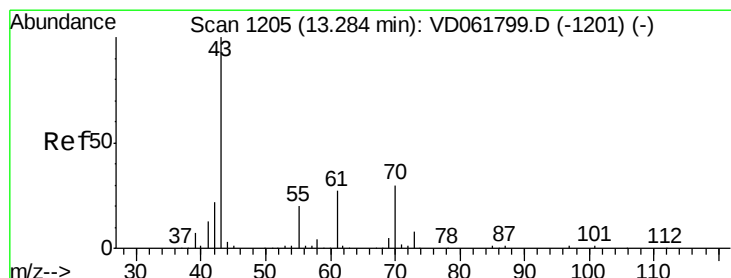
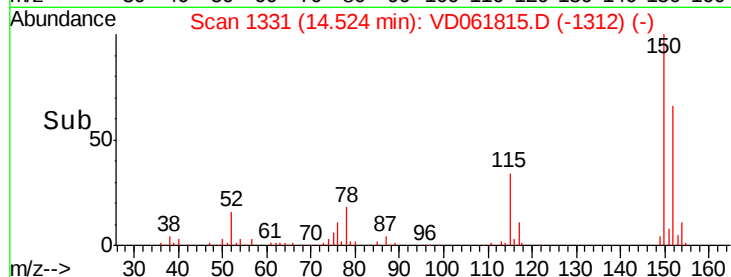
14.52

14.50

14.55

14.60

Time-->



#74

N-ethyl acetate

Concen: 3.378 ug/l

RT: 13.33 min Scan# 1210

Delta R.T. 0.05 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

Tgt Ion: 43 Resp: 5794

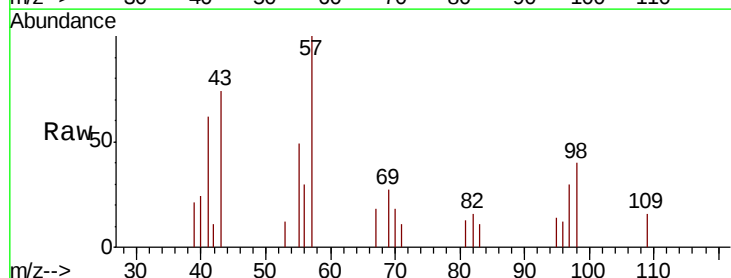
Ion Ratio Lower Upper

43 100

70 23.6 24.2 36.4#

55 65.6 16.0 24.0#

61 0.0 21.6 32.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

3000

2000

1000

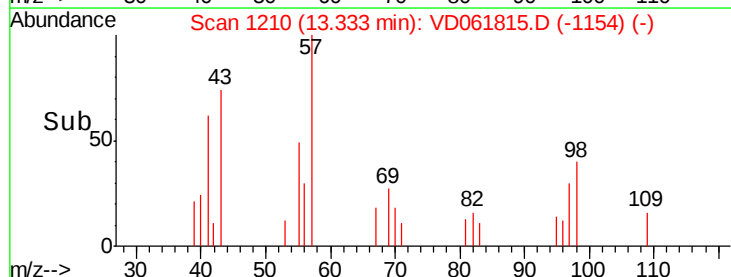
0

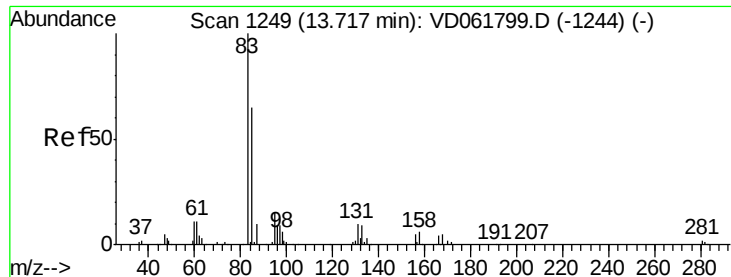
13.33

13.30

13.40

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 2.021 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

Instrument :

MSVOA_D

ClientSampleId :

TP-7-S2

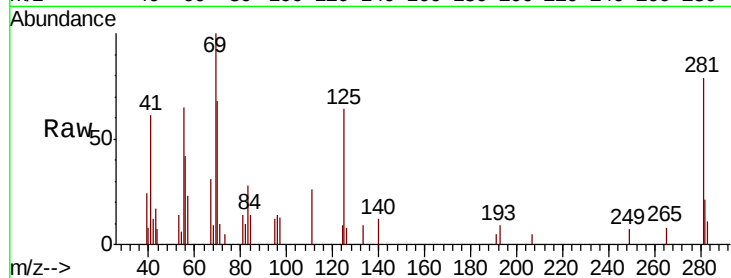
Tgt Ion: 83 Resp: 2548

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

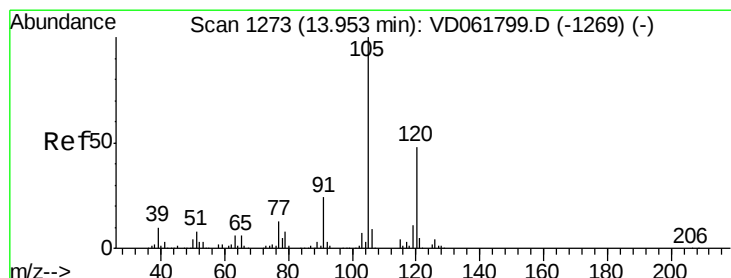
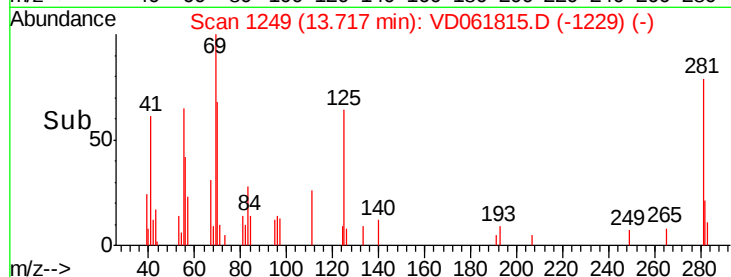
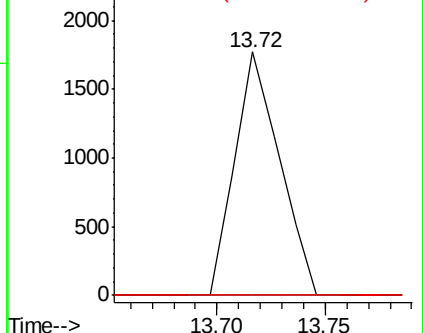
85 0.0 32.6 97.7#



Abundance Ion 82.95 (82.65 to 83.65): V

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): V



#80

1,3,5-Trimethylbenzene

Concen: 6.032 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VD061815.D

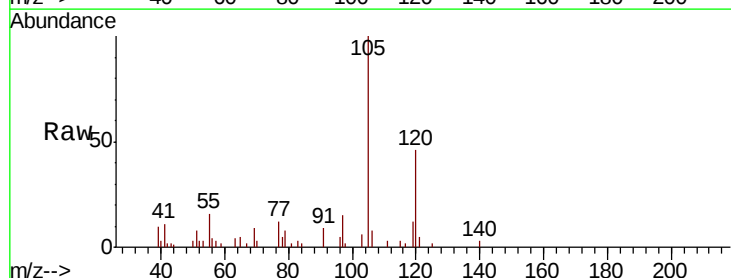
Acq: 16 Apr 2019 17:03

Tgt Ion: 105 Resp: 30524

Ion Ratio Lower Upper

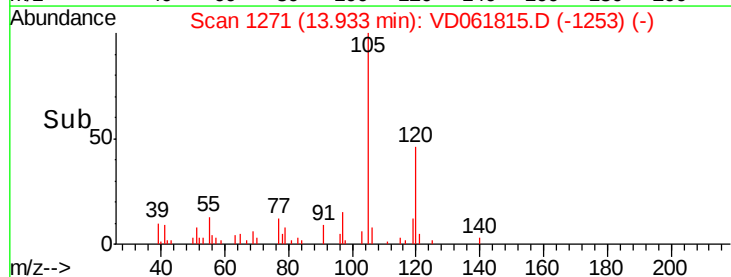
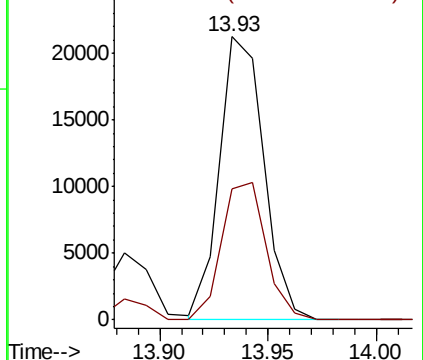
105 100

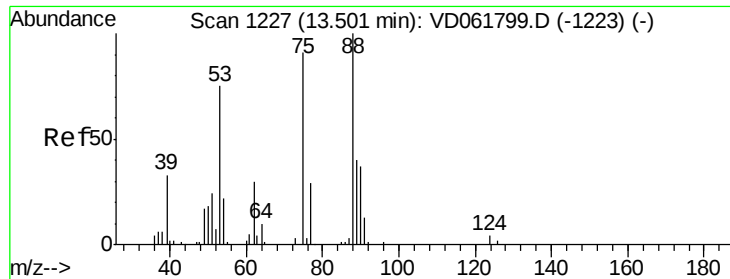
120 46.5 24.0 72.0



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 119.098 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.06 min

Lab File: VD061815.D

Acq: 16 Apr 2019 17:03

Instrument :

MSVOA_D

ClientSampleId :

TP-7-S2

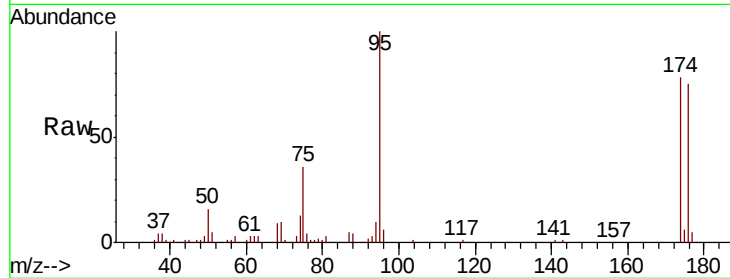
Tgt Ion: 75 Resp: 51913

Ion Ratio Lower Upper

75 100

53 0.0 65.8 98.8#

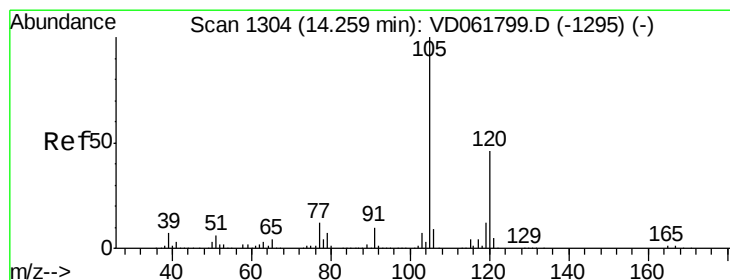
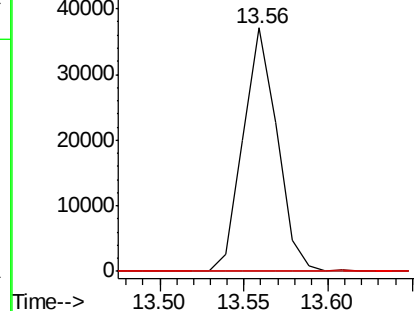
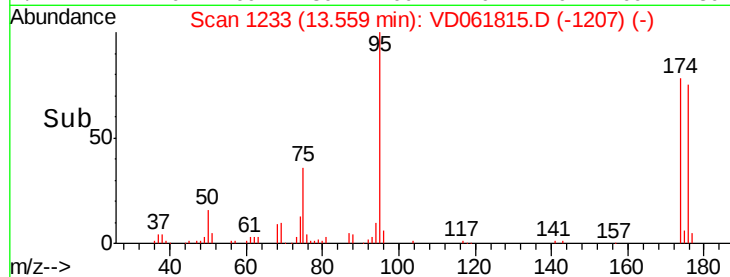
89 0.0 35.0 52.6#



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: 1.326 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. -0.02 min

Lab File: VD061815.D

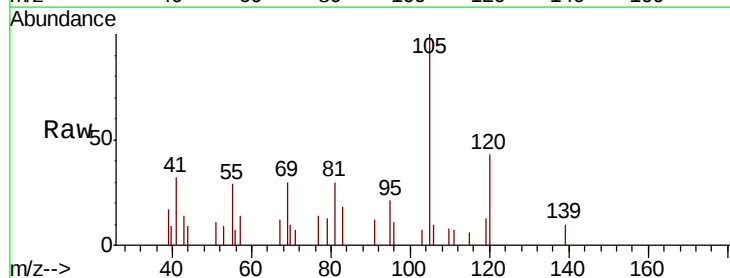
Acq: 16 Apr 2019 17:03

Tgt Ion: 105 Resp: 6743

Ion Ratio Lower Upper

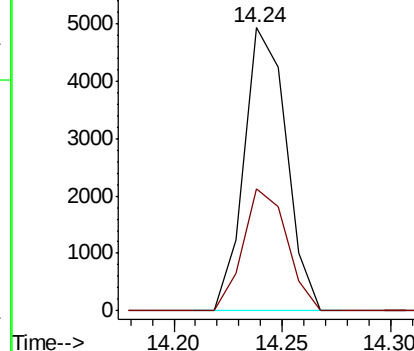
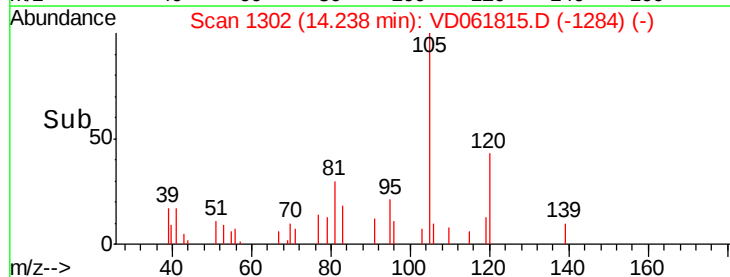
105 100

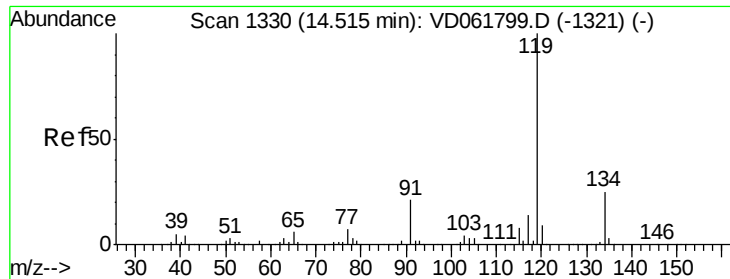
120 43.3 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

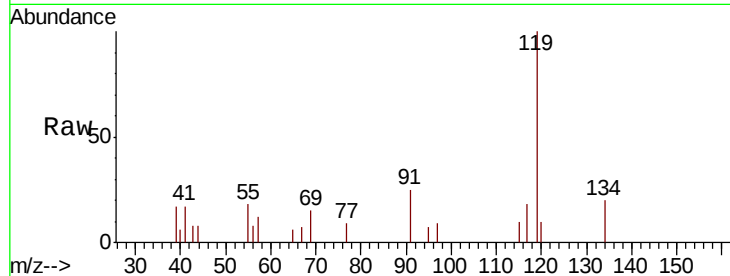




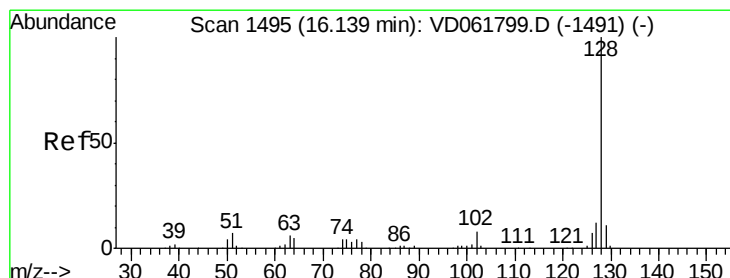
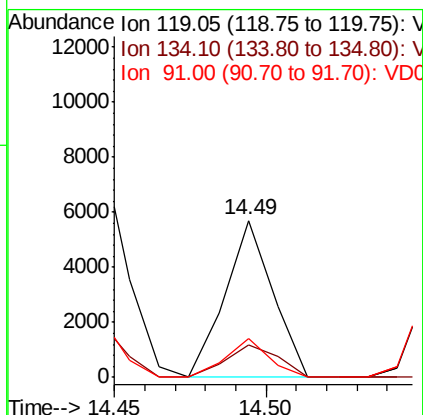
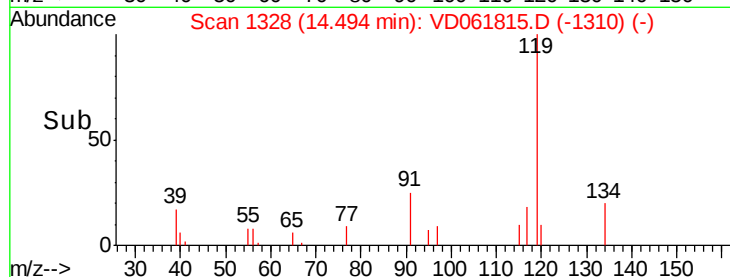
#86
p-Isopropyltoluene
Concen: 1.093 ug/l
RT: 14.49 min Scan# 1328
Delta R.T. -0.02 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

Instrument :
MSVOA_D
ClientSampleId :
TP-7-S2

Tgt Ion:119 Resp: 6284
Ion Ratio Lower Upper
119 100
134 20.5 12.8 38.3
91 24.8 10.7 32.1

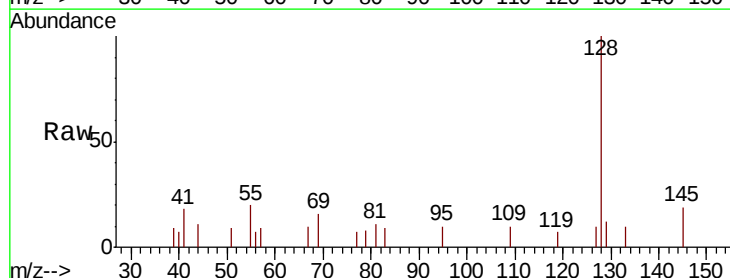


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 134.10 (133.80 to 134.80): V
Ion 91.00 (90.70 to 91.70): V



#95
Naphthalene
Concen: 2.317 ug/l
RT: 16.13 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VD061815.D
Acq: 16 Apr 2019 17:03

Tgt Ion:128 Resp: 5167
Ion Ratio Lower Upper
128 100
127 10.0 9.8 14.8
129 11.5 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

