

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\
 Data File : VD061819.D
 Acq On : 16 Apr 2019 19:22
 Operator : VA/AP
 Sample : K2373-01
 Misc : 5.13g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TPH-FOUND

Quant Time: Apr 17 00:59:10 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	7.02	168	19516	50.00	ug/l	-0.07
34) 1,4-Difluorobenzene	8.21	114	76167	50.00	ug/l	-0.05
63) Chlorobenzene-d5	12.39	117	83767	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	12203	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.53	65	23595	144.26	ug/l	0.04
Spiked Amount				50.000		
			Recovery	=	288.52%	
35) Dibromofluoromethane	7.06	113	16861	29.30	ug/l	0.09
Spiked Amount				50.000		
			Recovery	=	58.60%	
50) Toluene-d8	10.43	98	81537	59.80	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	119.60%	
62) 4-Bromofluorobenzene	13.57	95	18556	33.58	ug/l	-0.01
Spiked Amount				50.000		
			Recovery	=	67.16%	

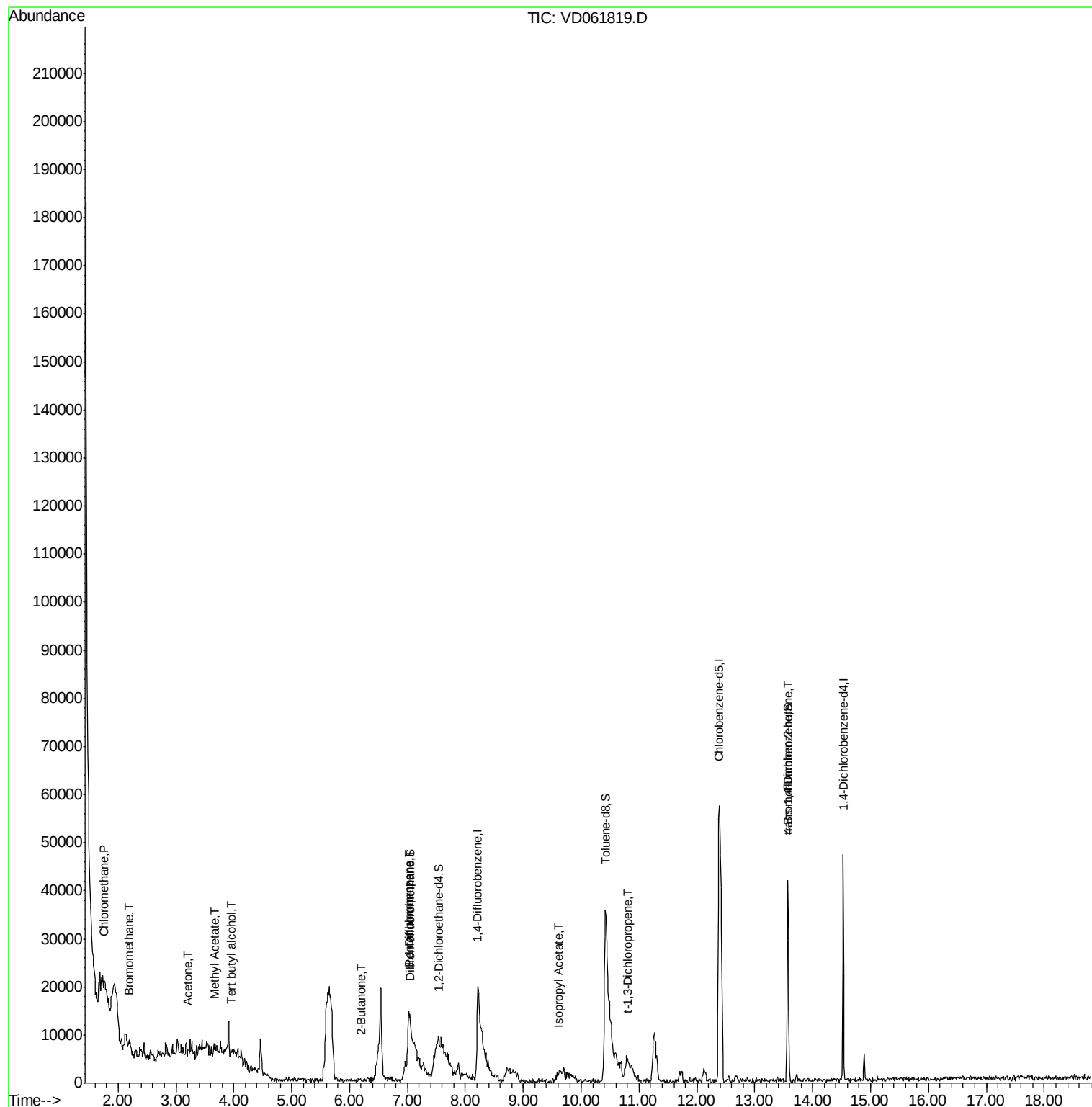
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.78	50	5230	34.452	ug/l	94
5) Bromomethane	2.18	94	1779	52.983	ug/l #	12
11) Tert butyl alcohol	3.95	59	423	43.854	ug/l #	76
16) Acetone	3.21	43	912	22.624	ug/l #	50
18) Methyl Acetate	3.68	43	7298	90.324	ug/l	97
20) Methylene Chloride	3.88	84	455	Below Cal	#	8
25) 2-Butanone	6.21	43	189	4.118	ug/l #	56
36) 1,1-Dichloropropene	7.02	75	1038	1.668	ug/l #	40
43) Isopropyl Acetate	9.60	43	444	1.184	ug/l #	43
53) t-1,3-Dichloropropene	10.80	75	12705	22.038	ug/l #	42
81) trans-1,4-Dichloro-2-buten	13.57	75	7949	146.186	ug/l #	16

(#) = 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: 7.02 min Scan# 569

Delta R.T. -0.07 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

Instrument :

MSVOA_D

ClientSampleId :

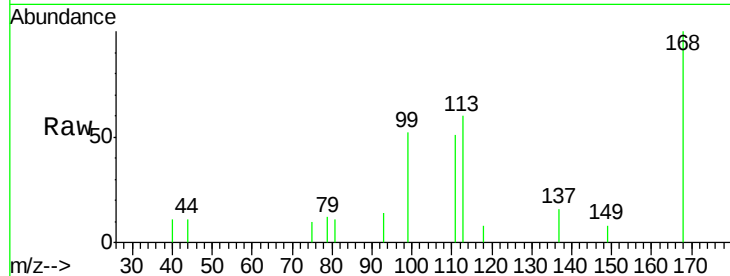
TPH-FOUND

Tot Ion:168 Resp: 19516

Ion Ratio Lower Upper

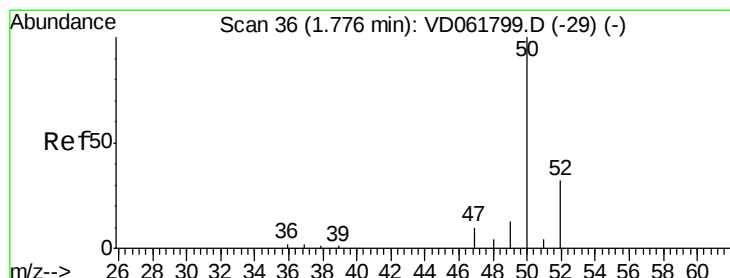
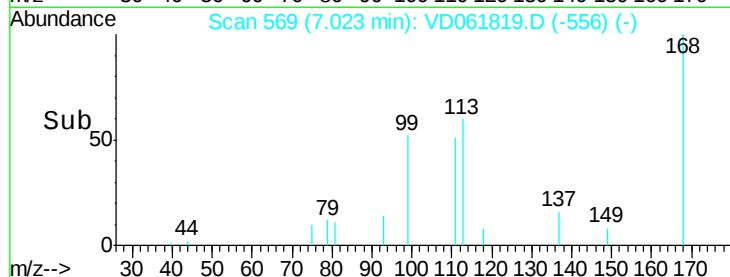
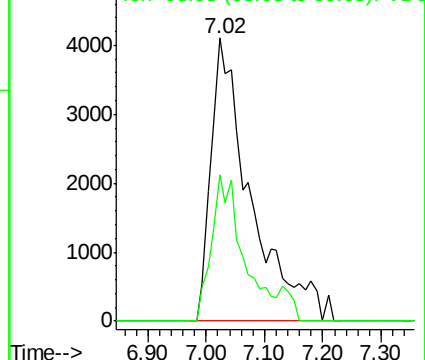
168 100

99 51.5 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 34.452 ug/l

RT: 1.78 min Scan# 36

Delta R.T. -0.00 min

Lab File: VD061819.D

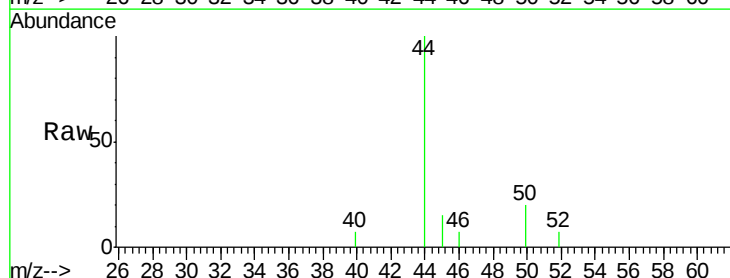
Acq: 16 Apr 2019 19:22

Tgt Ion: 50 Resp: 5230

Ion Ratio Lower Upper

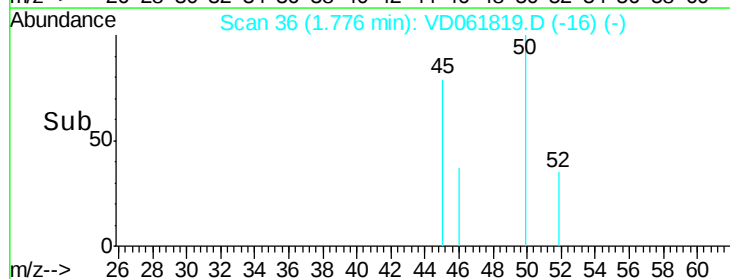
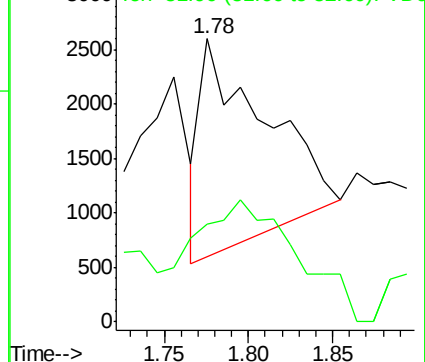
50 100

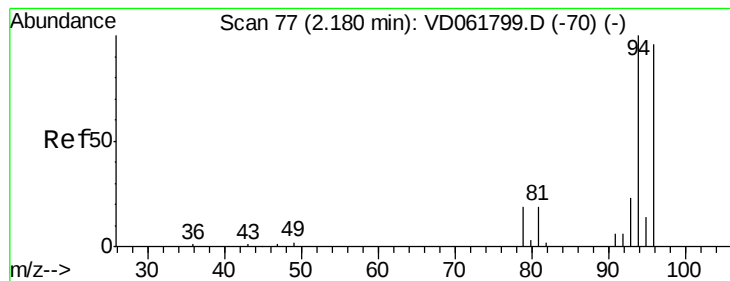
52 34.6 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 52.983 ug/l

RT: 2.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

Instrument :

MSVOA_D

ClientSampleId :

TPH-FOUND

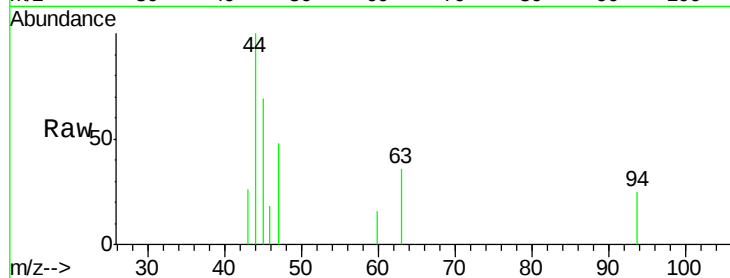
Tot Ion: 94 Resp: 1779

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

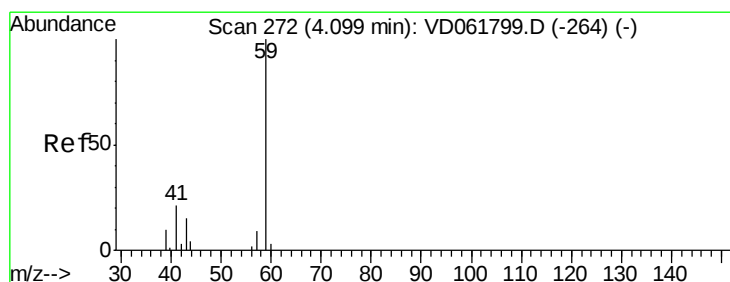
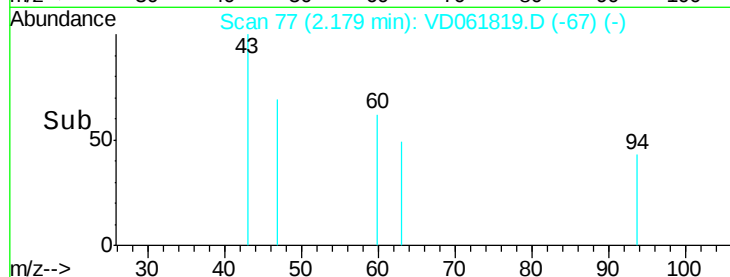
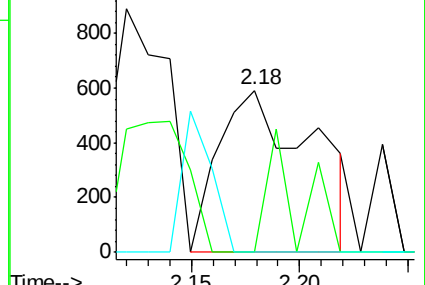
93 0.0 18.5 27.7#



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



#11

Tert butyl alcohol

Concen: 43.854 ug/l

RT: 3.95 min Scan# 257

Delta R.T. -0.15 min

Lab File: VD061819.D

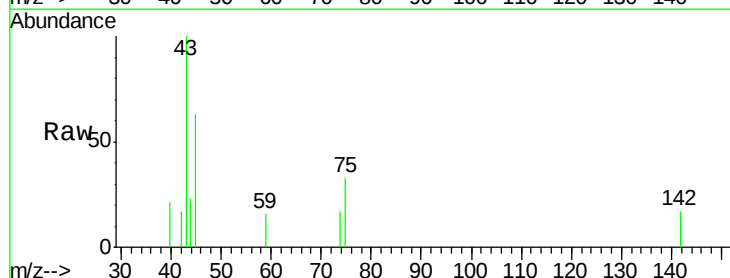
Acq: 16 Apr 2019 19:22

Tgt Ion: 59 Resp: 423

Ion Ratio Lower Upper

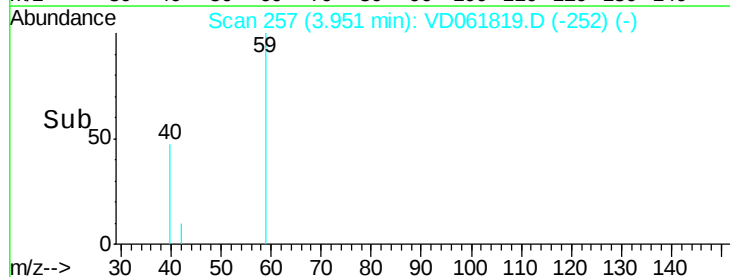
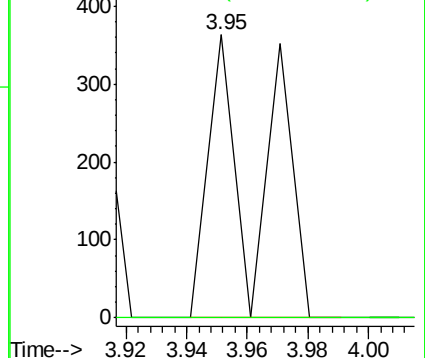
59 100

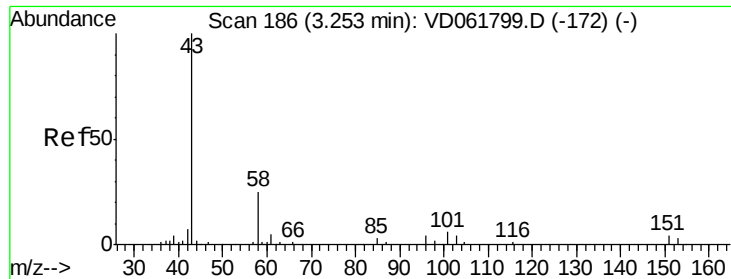
57 0.0 6.9 10.3#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 22.624 ug/l

RT: 3.21 min Scan# 182

Delta R.T. -0.04 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

Instrument :

MSVOA_D

ClientSampleId :

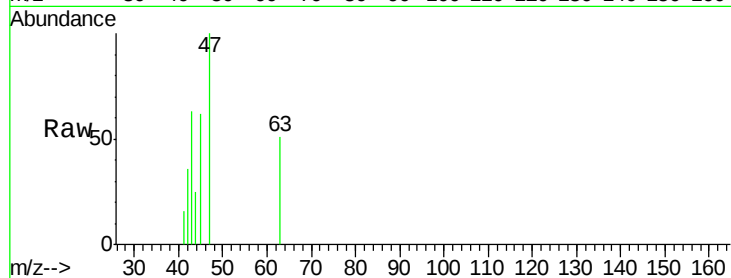
TPH-FOUND

Tot Ion: 43 Resp: 912

Ion Ratio Lower Upper

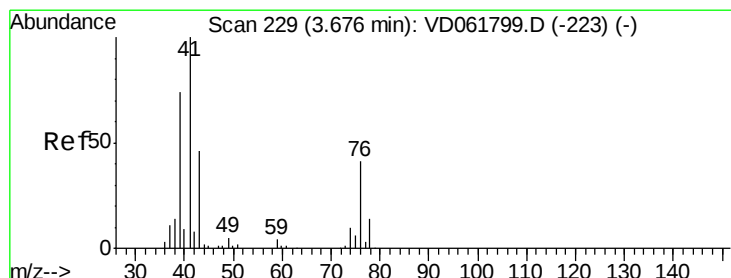
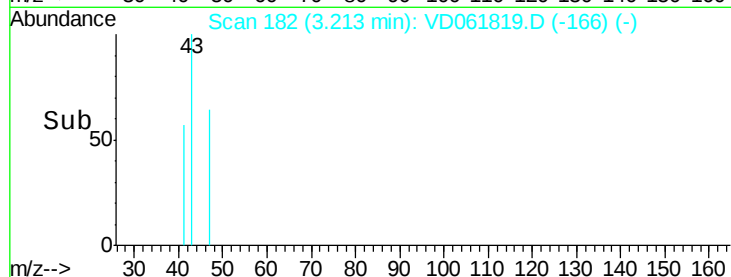
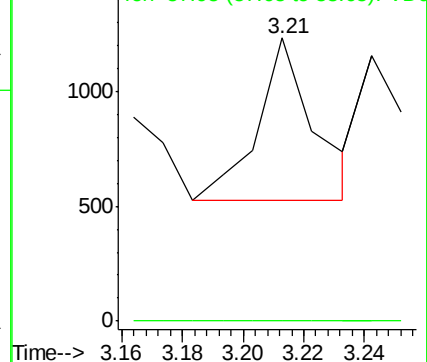
43 100

58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 90.324 ug/l

RT: 3.68 min Scan# 229

Delta R.T. -0.00 min

Lab File: VD061819.D

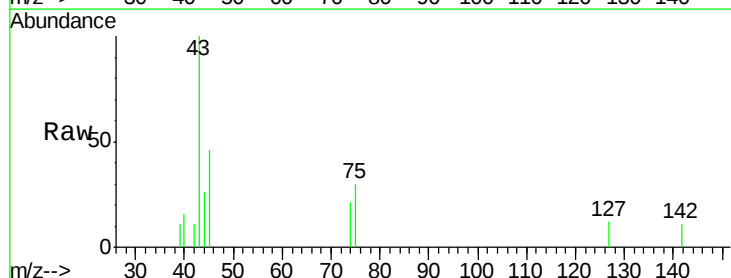
Acq: 16 Apr 2019 19:22

Tgt Ion: 43 Resp: 7298

Ion Ratio Lower Upper

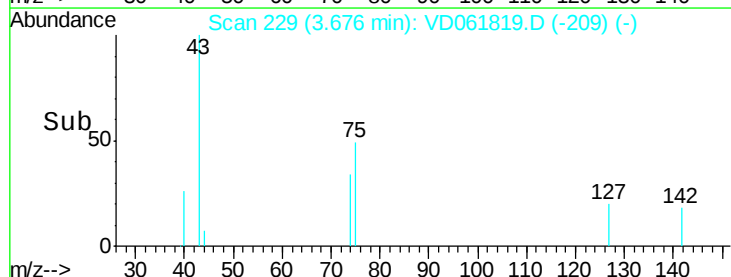
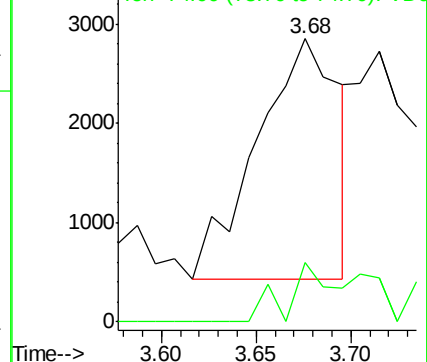
43 100

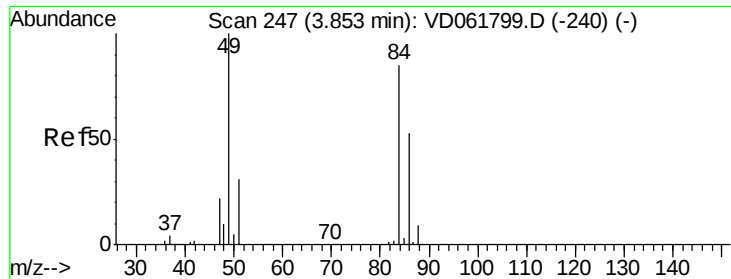
74 20.9 18.0 27.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

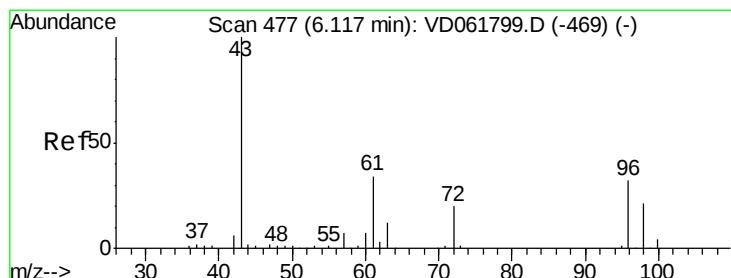
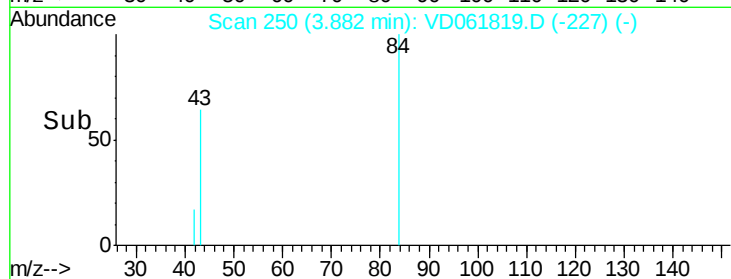
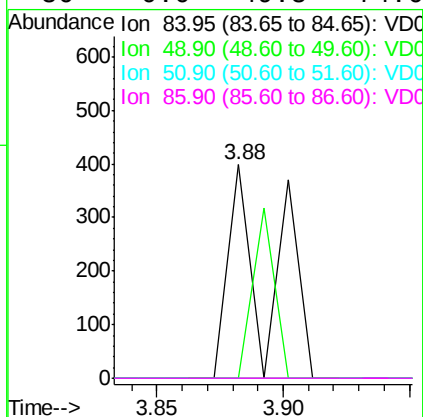
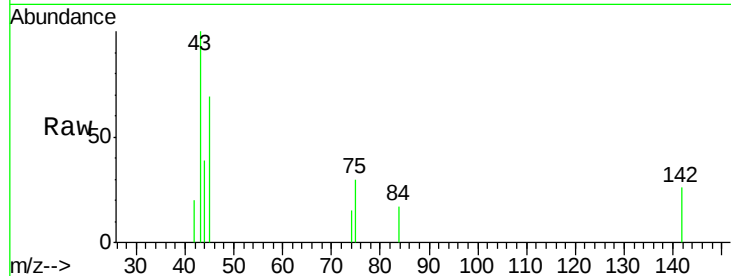




#20
Methvlene Chloride
Concen: Below Cal
RT: 3.88 min Scan# 250
Delta R.T. 0.03 min
Lab File: VD061819.D
Acq: 16 Apr 2019 19:22

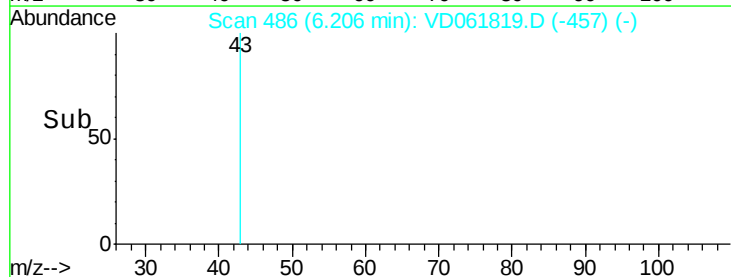
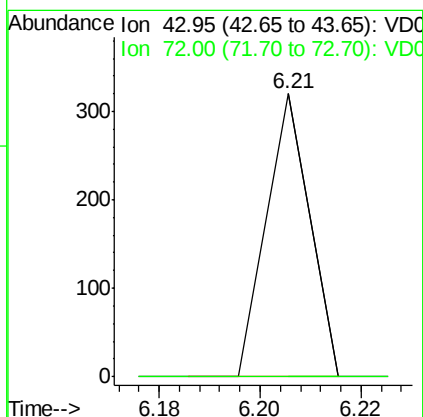
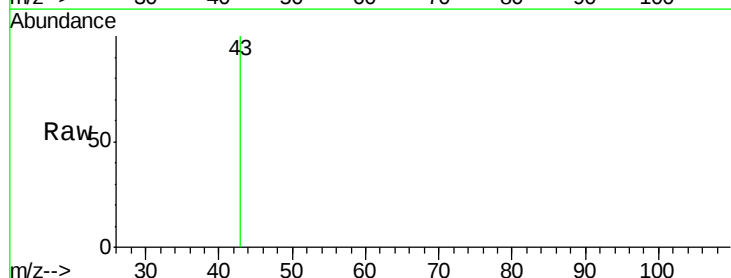
Instrument :
MSVOA_D
ClientSampleId :
TPH-FOUND

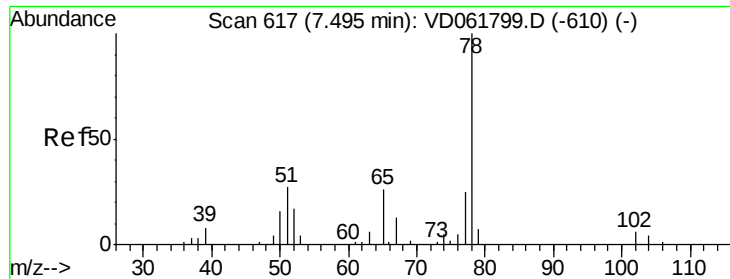
Tot Ion: 84 Resp: 455
Ion Ratio Lower Upper
84 100
49 0.0 94.0 141.0#
51 0.0 29.0 43.4#
86 0.0 49.8 74.6#



#25
2-Butanone
Concen: 4.118 ug/l
RT: 6.21 min Scan# 486
Delta R.T. 0.09 min
Lab File: VD061819.D
Acq: 16 Apr 2019 19:22

Tgt Ion: 43 Resp: 189
Ion Ratio Lower Upper
43 100
72 0.0 16.2 24.4#

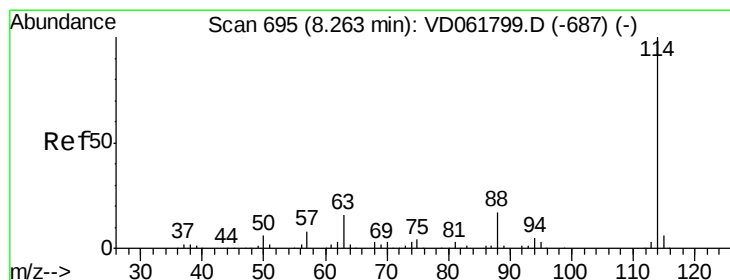
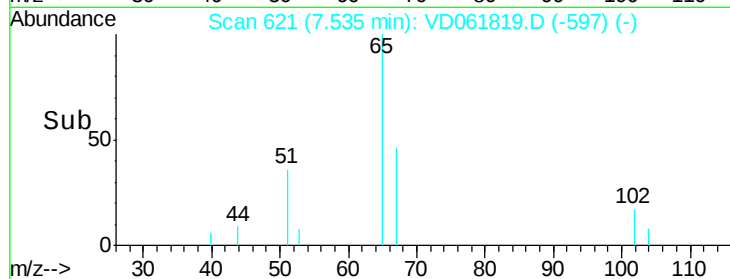
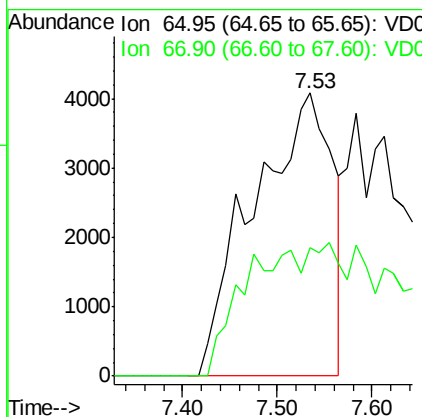
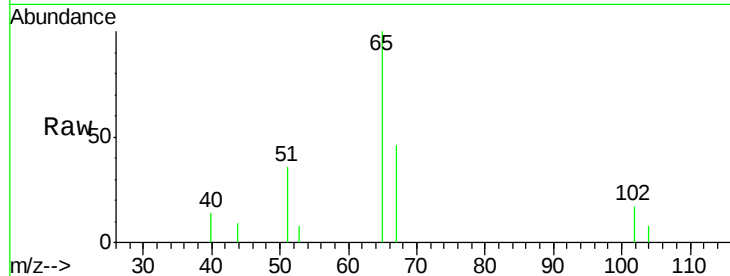




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 7.53 min Scan# 621
 Delta R.T. 0.04 min
 Lab File: VD061819.D
 Acq: 16 Apr 2019 19:22

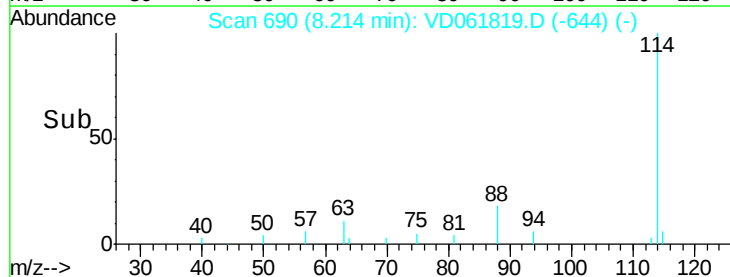
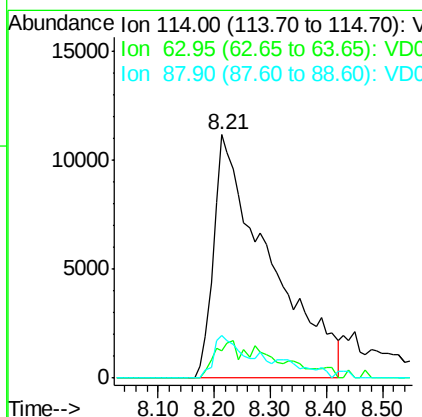
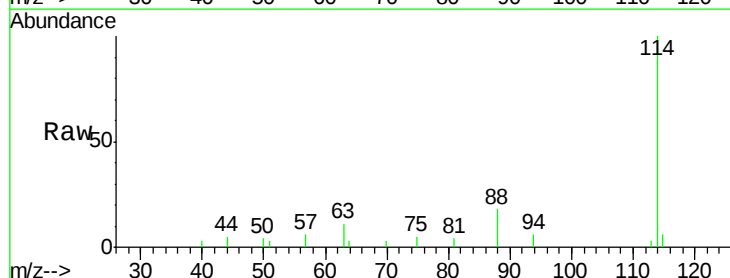
Instrument :
 MSVOA_D
 ClientSampleId :
 TPH-FOUND

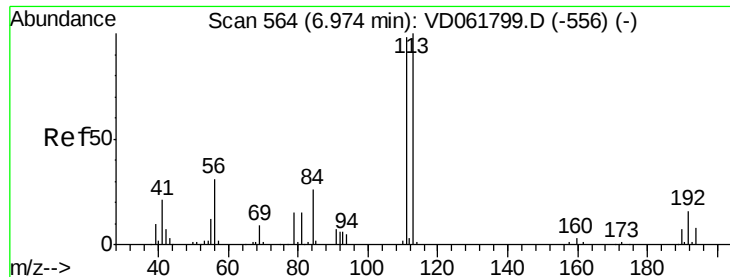
Tot Ion: 65 Resp: 23595
 Ion Ratio Lower Upper
 65 100
 67 45.6 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 690
 Delta R.T. -0.05 min
 Lab File: VD061819.D
 Acq: 16 Apr 2019 19:22

Tgt Ion: 114 Resp: 76167
 Ion Ratio Lower Upper
 114 100
 63 11.5 0.0 32.4
 88 17.6 0.0 33.6





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.09 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

Instrument :

MSVOA_D

ClientSampleId :

TPH-FOUND

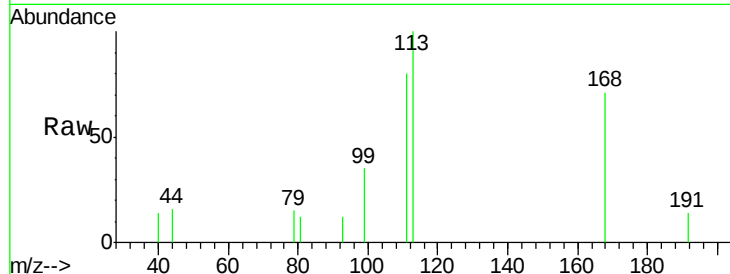
Tot Ion:113 Resp: 16861

Ion Ratio Lower Upper

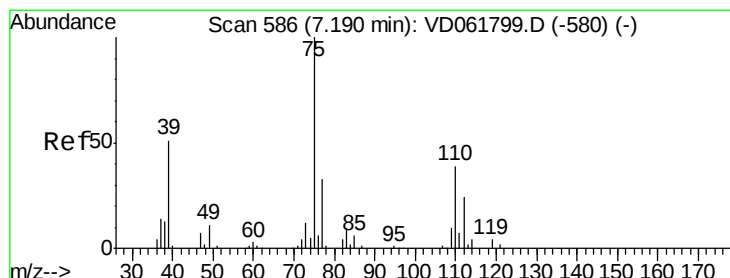
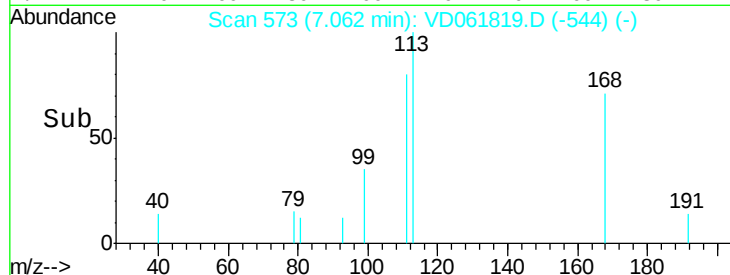
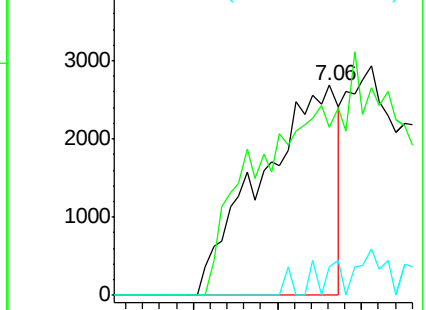
113 100

111 80.4 78.5 117.7

192 13.7 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: 1.668 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.17 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

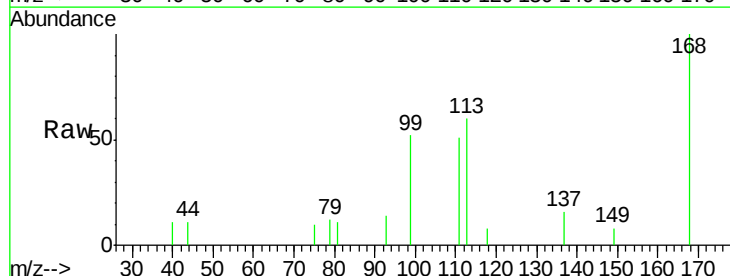
Tgt Ion: 75 Resp: 1038

Ion Ratio Lower Upper

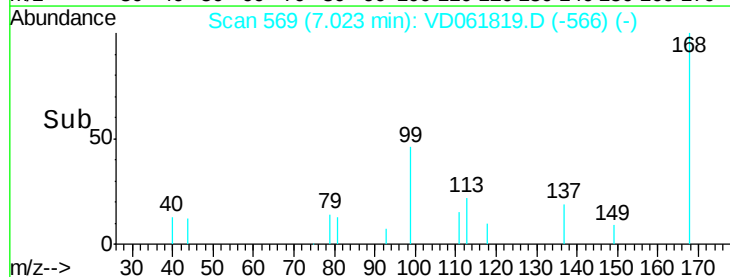
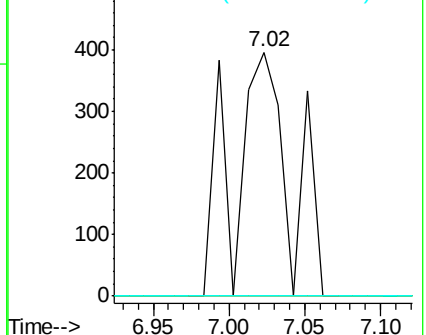
75 100

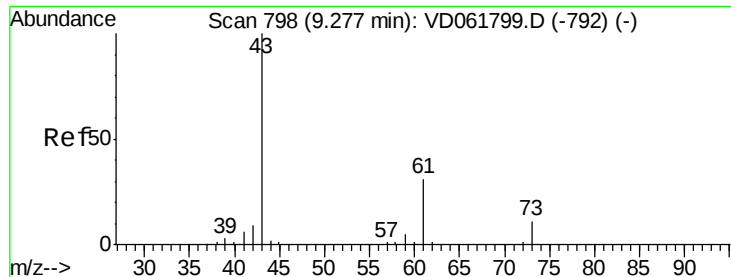
110 0.0 19.1 57.1#

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): V
Ion 76.95 (76.65 to 77.65): VDC





#43

Isopropyl Acetate

Concen: 1.184 ug/l

RT: 9.60 min Scan# 831

Delta R.T. 0.32 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

Instrument :

MSVOA_D

ClientSampleId :

TPH-FOUND

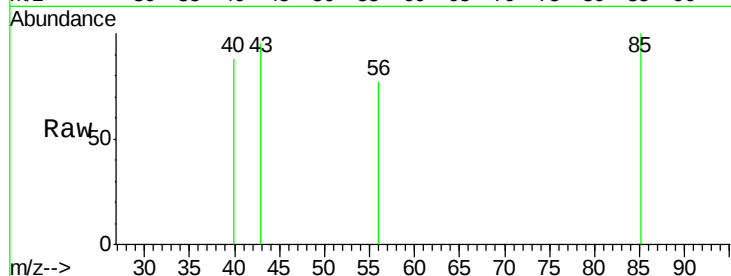
Tot Ion: 43 Resp: 444

Ion Ratio Lower Upper

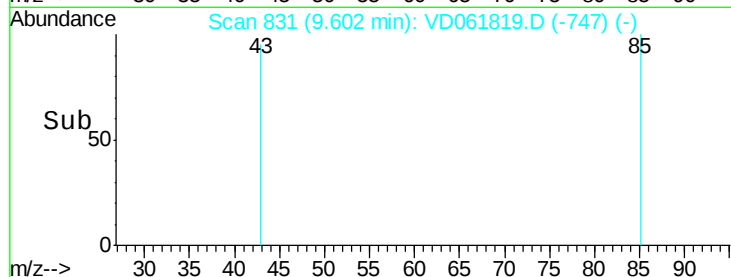
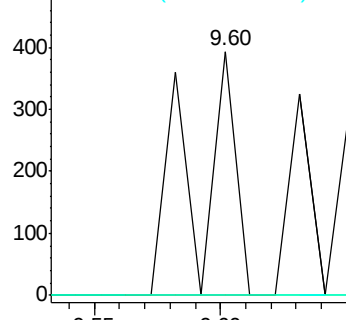
43 100

61 0.0 25.1 37.7#

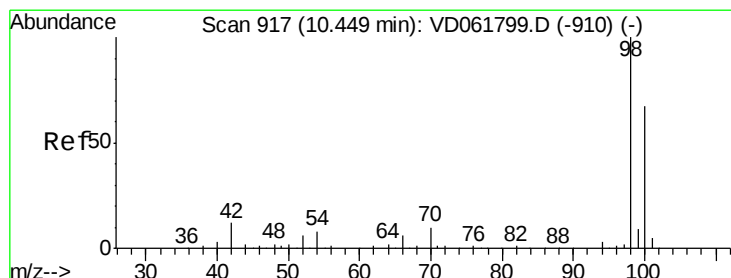
87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



Time-->



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.43 min Scan# 915

Delta R.T. -0.02 min

Lab File: VD061819.D

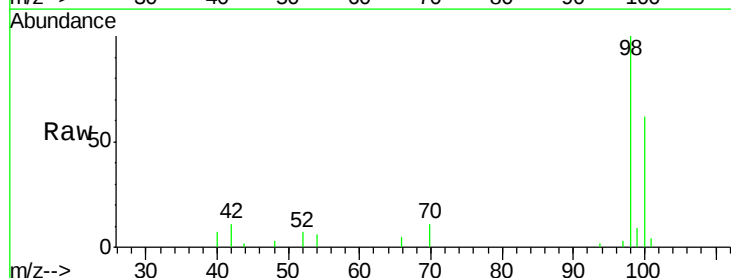
Acq: 16 Apr 2019 19:22

Tgt Ion: 98 Resp: 81537

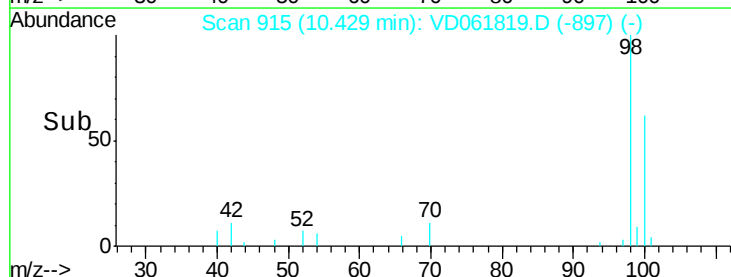
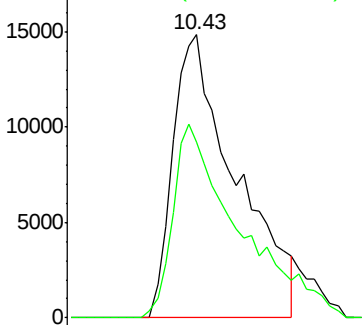
Ion Ratio Lower Upper

98 100

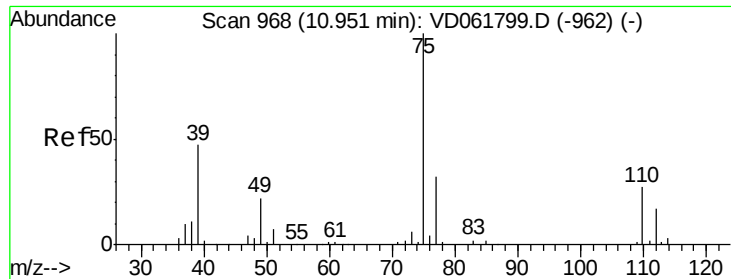
100 62.2 53.8 80.8



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



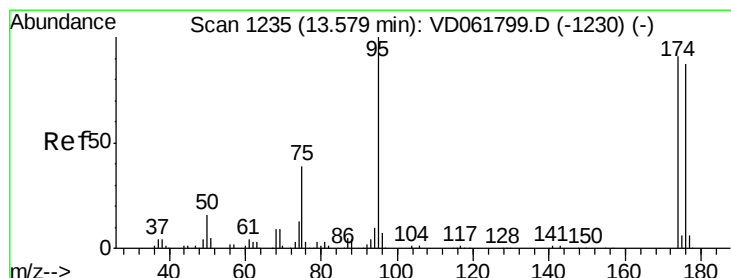
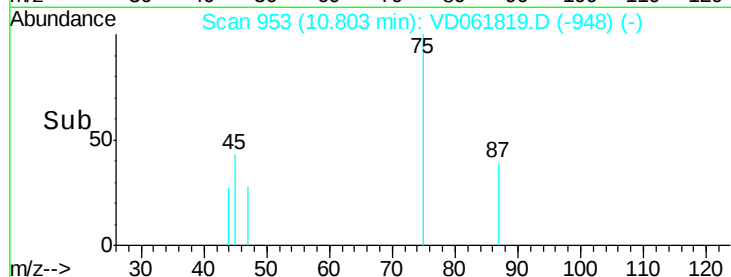
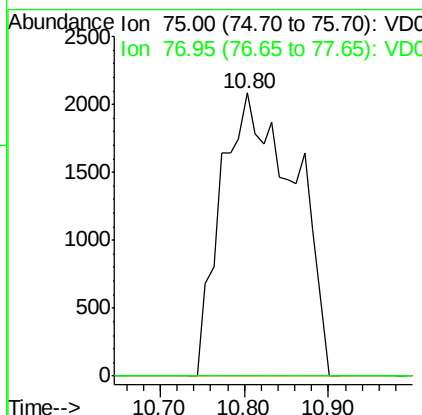
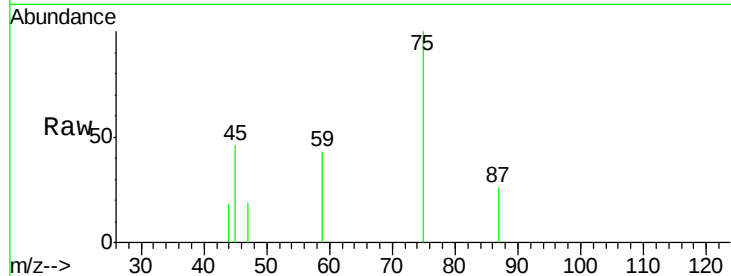
Time-->



#53
t-1,3-Dichloropropene
Concen: 22.038 ug/l
RT: 10.80 min Scan# 953
Delta R.T. -0.15 min
Lab File: VD061819.D
Acq: 16 Apr 2019 19:22

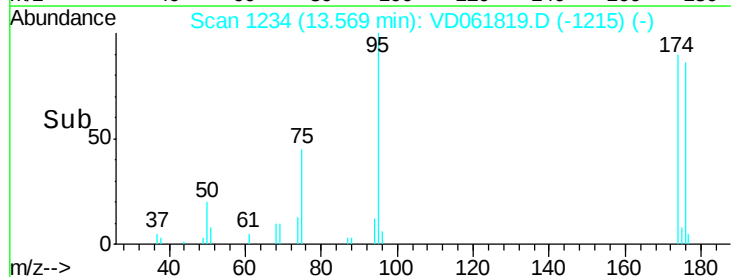
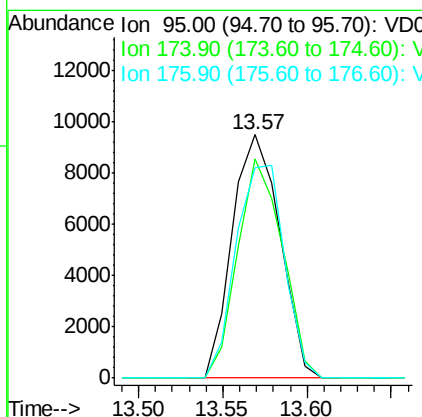
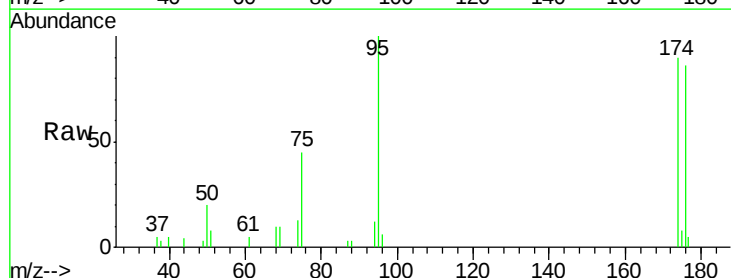
Instrument :
MSVOA_D
ClientSampleId :
TPH-FOUND

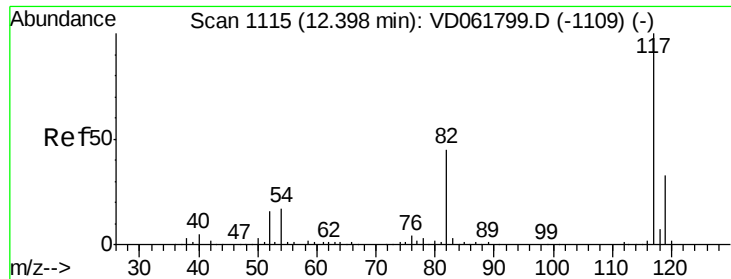
Tot Ion: 75 Resp: 12705
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.57 min Scan# 1234
Delta R.T. -0.01 min
Lab File: VD061819.D
Acq: 16 Apr 2019 19:22

Tgt Ion: 95 Resp: 18556
Ion Ratio Lower Upper
95 100
174 90.1 0.0 181.8
176 86.2 0.0 174.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.39 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

Instrument :

MSVOA_D

ClientSampleId :

TPH-FOUND

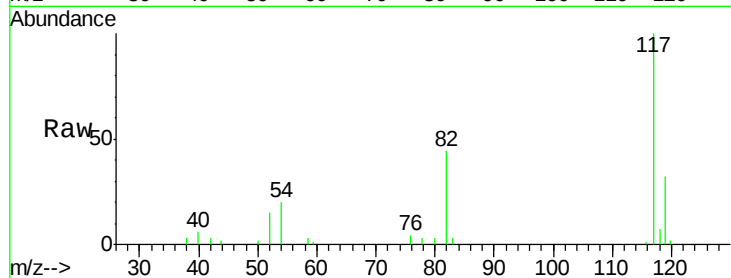
Tot Ion:117 Resp: 83767

Ion Ratio Lower Upper

117 100

82 43.8 36.2 54.2

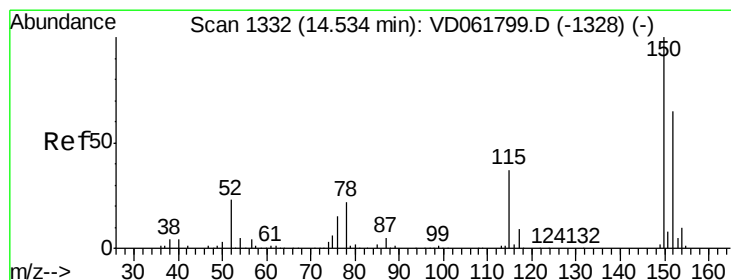
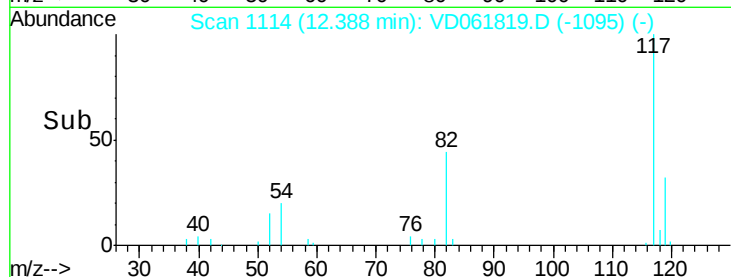
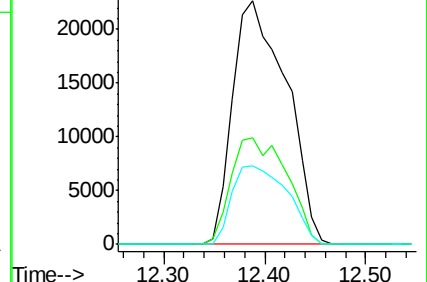
119 32.5 26.2 39.4



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. -0.01 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

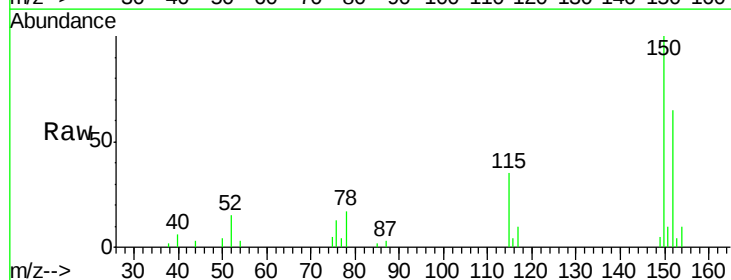
Tgt Ion:152 Resp: 12203

Ion Ratio Lower Upper

152 100

115 53.6 30.9 92.7

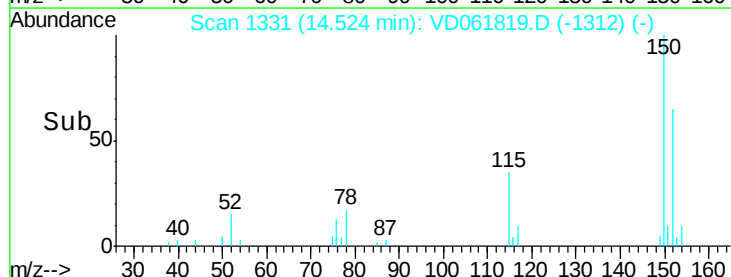
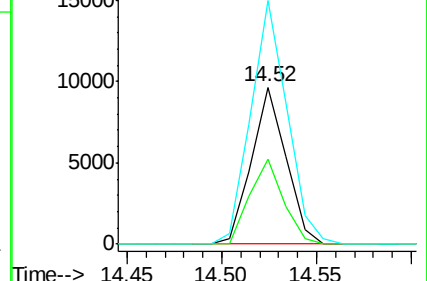
150 155.0 0.0 314.8

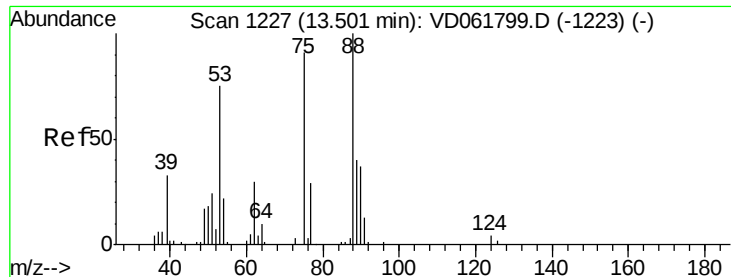


Abundance Ion 151.90 (151.60 to 152.60): V

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: 146.186 ug/l

RT: 13.57 min Scan# 1234

Delta R.T. 0.07 min

Lab File: VD061819.D

Acq: 16 Apr 2019 19:22

Instrument :

MSVOA_D

ClientSampleId :

TPH-FOUND

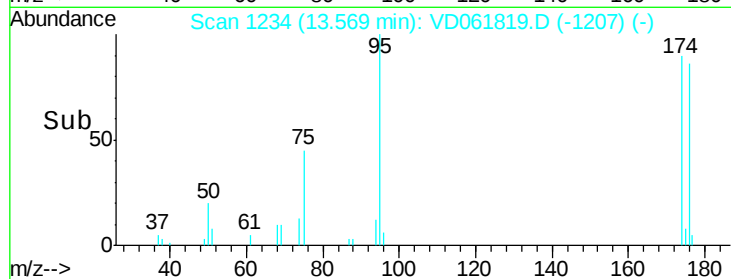
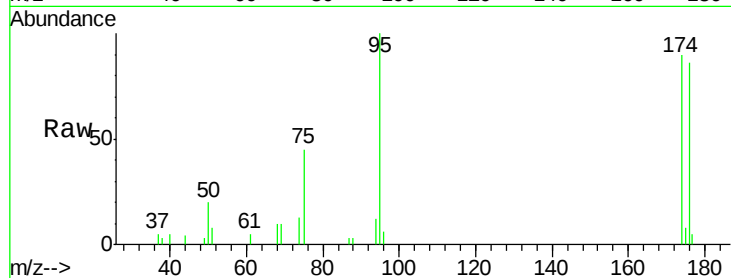
Tot Ion: 75 Resp: 7949

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

