

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041619\
 Data File : VD061816.D
 Acq On : 16 Apr 2019 17:31
 Operator : VA/AP
 Sample : K2358-14
 Misc : 4.25g/5ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-7-D2

Quant Time: Apr 16 17:55:57 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	261625	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.23	114	486497	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.38	117	325722	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	76192	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	142394	64.94	ug/l	-0.03
Spiked Amount			Recovery	=	129.88%	
35) Dibromofluoromethane	6.94	113	209691	57.05	ug/l	-0.03
Spiked Amount			Recovery	=	114.10%	
50) Toluene-d8	10.42	98	361590	41.52	ug/l	-0.03
Spiked Amount			Recovery	=	83.04%	
62) 4-Bromofluorobenzene	13.56	95	96031	27.21	ug/l	-0.02
Spiked Amount			Recovery	=	54.42%	

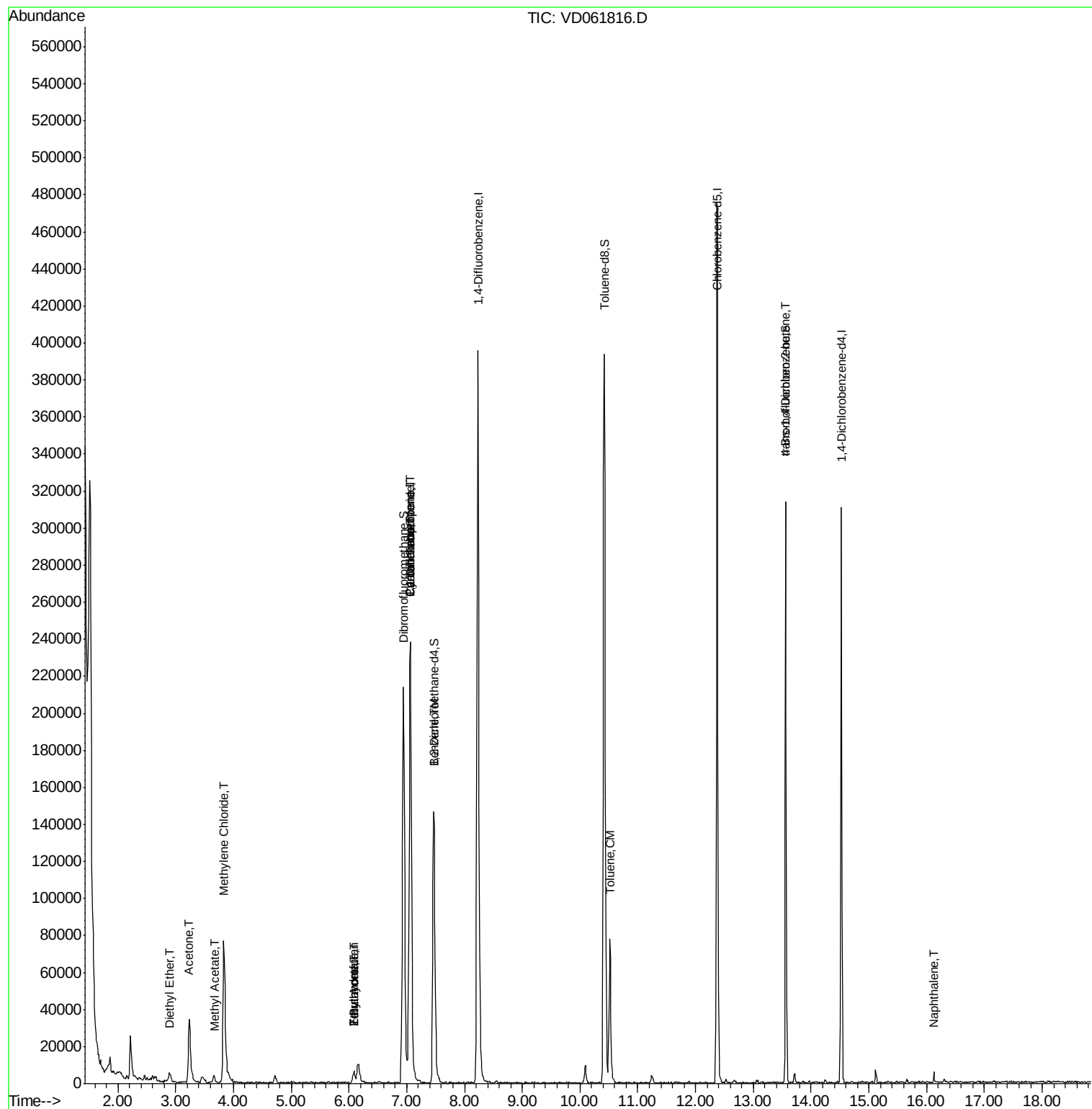
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.17	94	191	Below Cal	#	12
8) Diethyl Ether	2.89	74	1990	2.318	ug/l	94
16) Acetone	3.23	43	65543	121.284	ug/l	96
18) Methyl Acetate	3.66	43	7381	6.814	ug/l #	75
20) Methylene Chloride	3.83	84	60947	19.930	ug/l	97
25) 2-Butanone	6.09	43	14995	24.373	ug/l	95
29) Tetrahydrofuran	6.10	42	409	1.365	ug/l #	1
31) Cyclohexane	7.06	56	3808	1.147	ug/l #	1
36) 1,1-Dichloropropene	7.06	75	17736	4.461	ug/l #	47
37) Ethyl Acetate	6.09	43	14996	8.814	ug/l #	64
38) Carbon Tetrachloride	7.06	117	24025	4.786	ug/l #	12
40) Benzene	7.48	78	9773	1.024	ug/l #	84
52) Toluene	10.52	92	45609	7.457	ug/l	95
81) trans-1,4-Dichloro-2-buten	13.56	75	36640	108.791	ug/l #	16
95) Naphthalene	16.13	128	4512	2.611	ug/l #	95

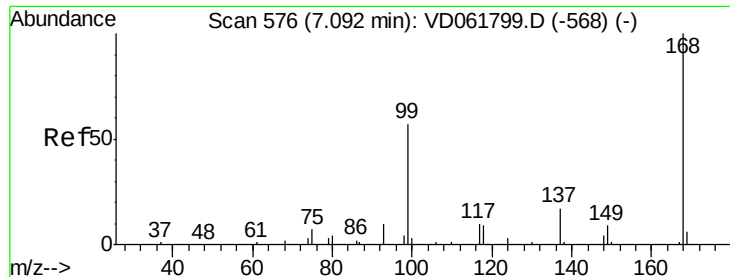
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VD061816.D

Acq: 16 Apr 2019 17:31

Instrument :

MSVOA_D

ClientSampleId :

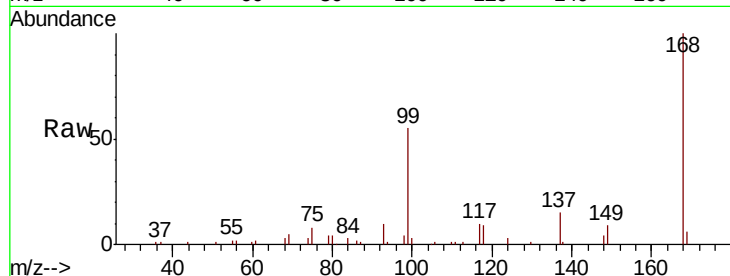
TP-7-D2

Tgt Ion:168 Resp: 261625

Ion Ratio Lower Upper

168 100

99 55.2 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

80000

60000

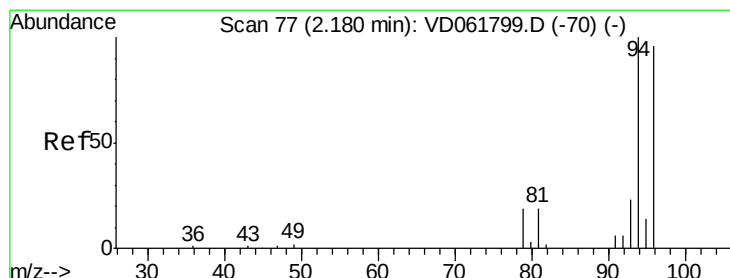
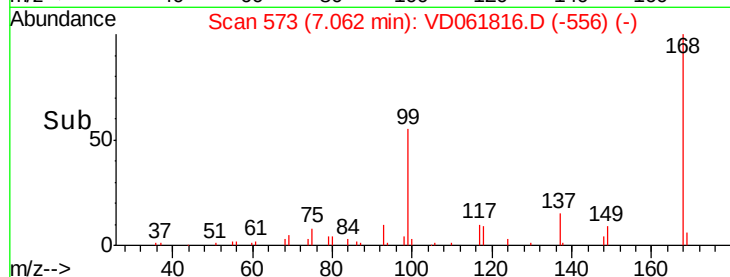
40000

20000

0

Time-->

6.90 7.00 7.10 7.20 7.30



#5

Bromomethane

Concen: Below Cal

RT: 2.17 min Scan# 76

Delta R.T. -0.01 min

Lab File: VD061816.D

Acq: 16 Apr 2019 17:31

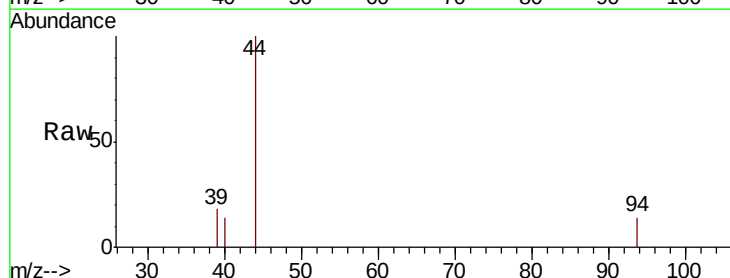
Tgt Ion: 94 Resp: 191

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

2.17

400

300

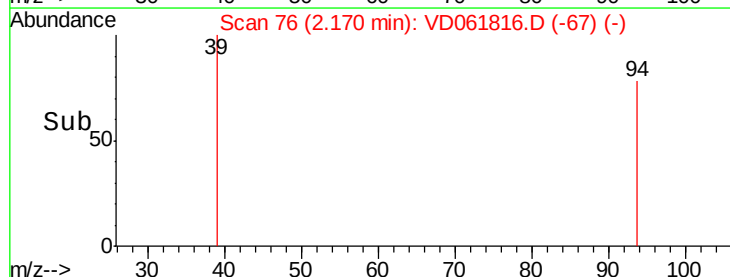
200

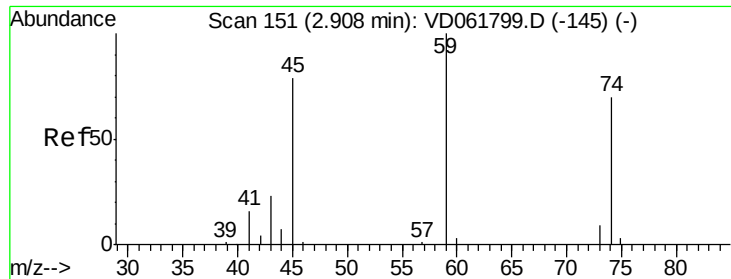
100

0

Time-->

2.14 2.16 2.18





#8

Diethyl Ether

Concen: 2.318 ug/l

RT: 2.89 min Scan# 149

Delta R.T. -0.02 min

Lab File: VD061816.D

Acq: 16 Apr 2019 17:31

Instrument :

MSVOA_D

ClientSampleId :

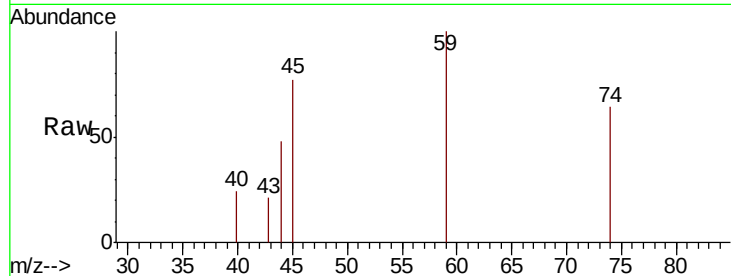
TP-7-D2

Tgt Ion: 74 Resp: 1990

Ion Ratio Lower Upper

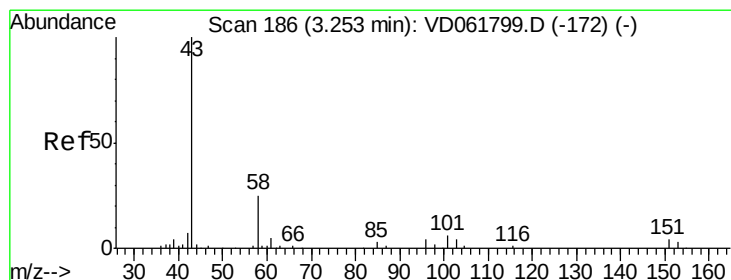
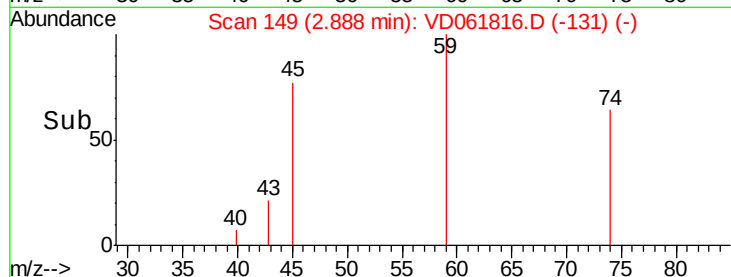
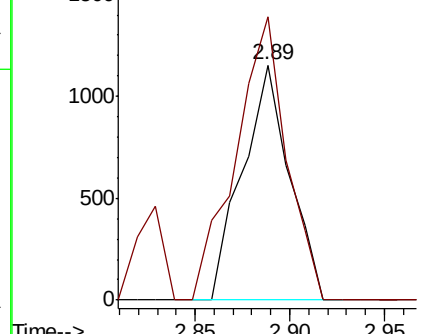
74 100

45 120.3 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: 121.284 ug/l

RT: 3.23 min Scan# 184

Delta R.T. -0.02 min

Lab File: VD061816.D

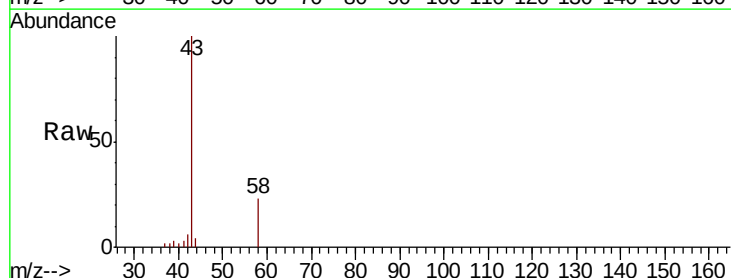
Acq: 16 Apr 2019 17:31

Tgt Ion: 43 Resp: 65543

Ion Ratio Lower Upper

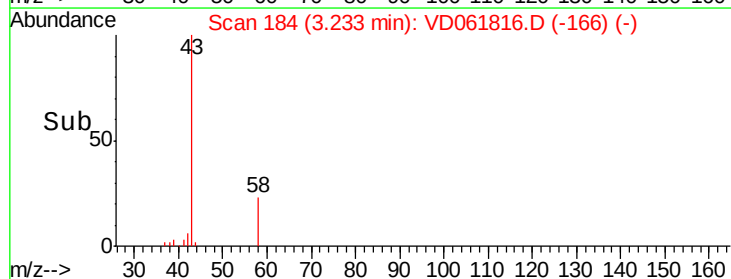
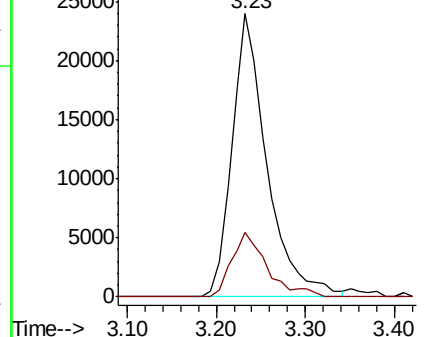
43 100

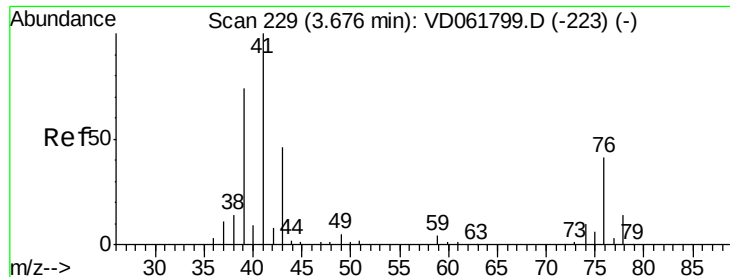
58 22.9 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

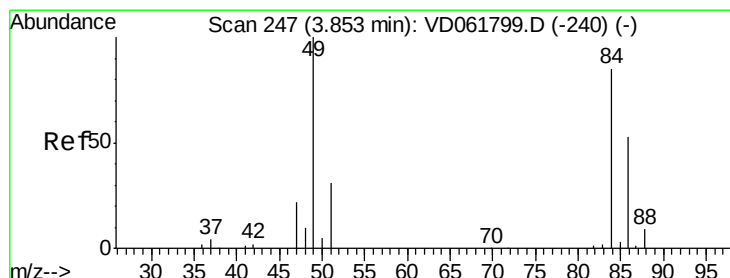
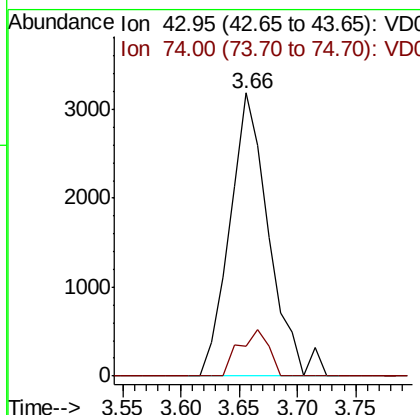
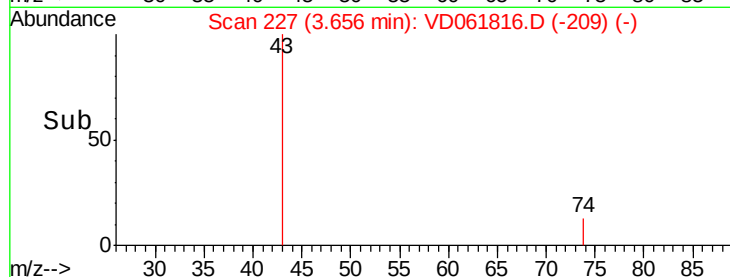
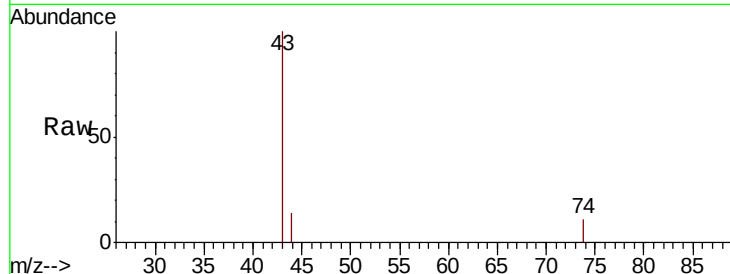




#18
Methyl Acetate
Concen: 6.814 ug/l
RT: 3.66 min Scan# 227
Delta R.T. -0.02 min
Lab File: VD061816.D
Acq: 16 Apr 2019 17:31

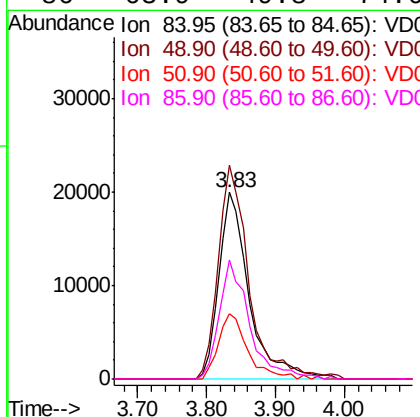
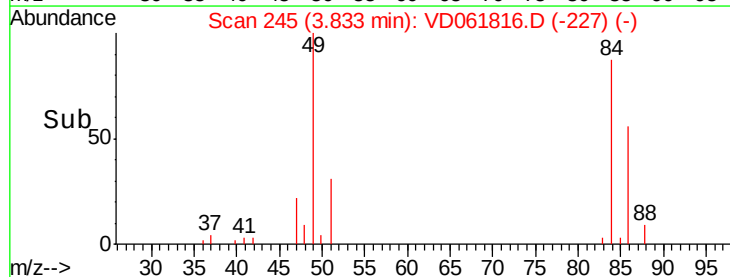
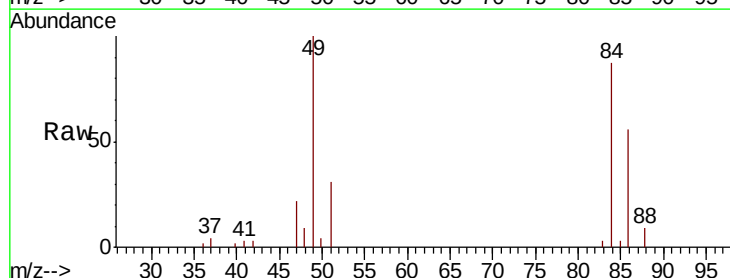
Instrument :
MSVOA_D
ClientSampleId :
TP-7-D2

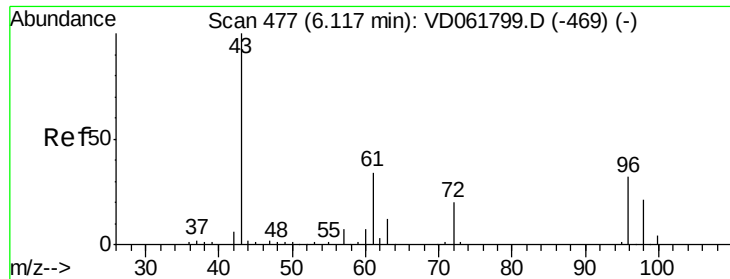
Tgt Ion: 43 Resp: 7381
Ion Ratio Lower Upper
43 100
74 10.7 18.0 27.0#



#20
Methylene Chloride
Concen: 19.930 ug/l
RT: 3.83 min Scan# 245
Delta R.T. -0.02 min
Lab File: VD061816.D
Acq: 16 Apr 2019 17:31

Tgt Ion: 84 Resp: 60947
Ion Ratio Lower Upper
84 100
49 114.3 94.0 141.0
51 35.1 29.0 43.4
86 63.9 49.8 74.6





#25

2-Butanone

Concen: 24.373 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.03 min

Lab File: VD061816.D

Acq: 16 Apr 2019 17:31

Instrument :

MSVOA_D

ClientSampleId :

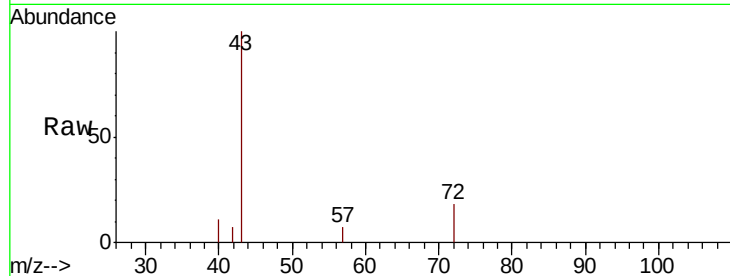
TP-7-D2

Tgt Ion: 43 Resp: 14995

Ion Ratio Lower Upper

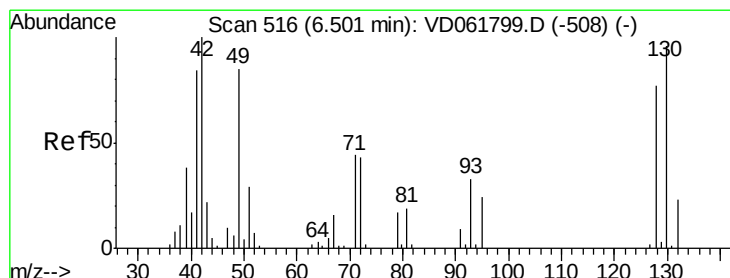
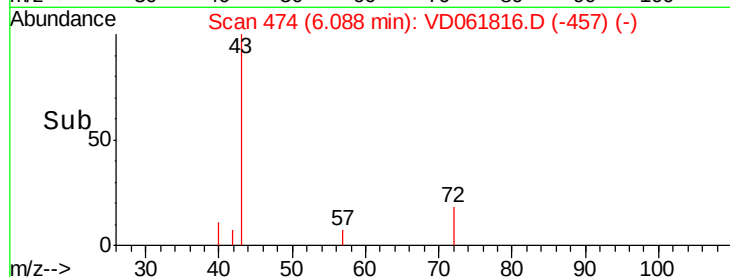
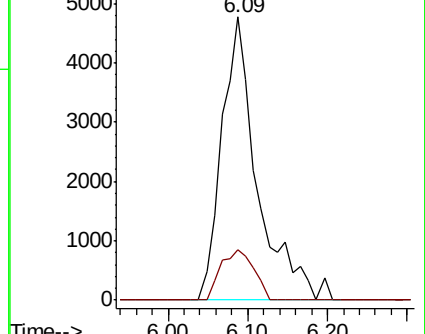
43 100

72 17.9 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.365 ug/l

RT: 6.10 min Scan# 475

Delta R.T. -0.40 min

Lab File: VD061816.D

Acq: 16 Apr 2019 17:31

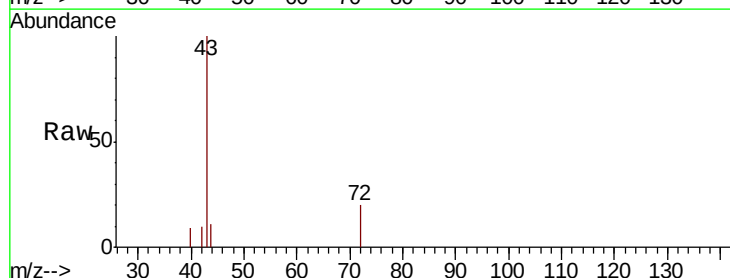
Tgt Ion: 42 Resp: 409

Ion Ratio Lower Upper

42 100

72 604.2 37.8 56.6#

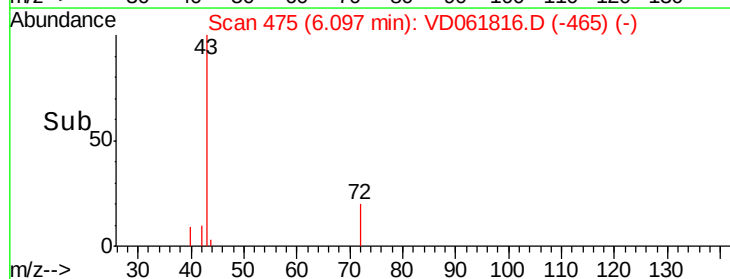
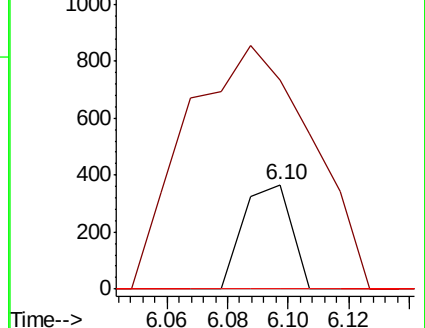
71 0.0 36.7 55.1#

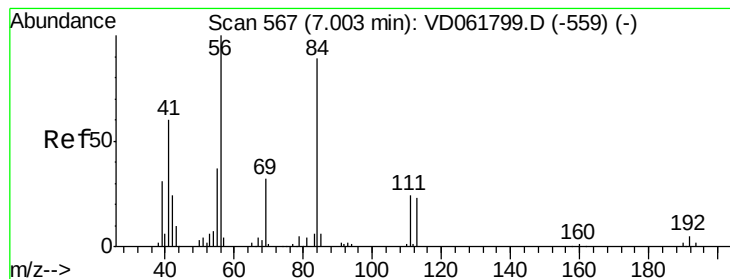


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 1.147 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.06 min

Lab File: VD061816.D

Acq: 16 Apr 2019 17:31

Instrument :

MSVOA_D

ClientSampleId :

TP-7-D2

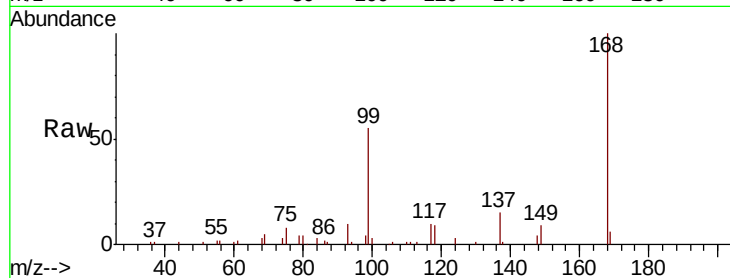
Tgt Ion: 56 Resp: 3808

Ion Ratio Lower Upper

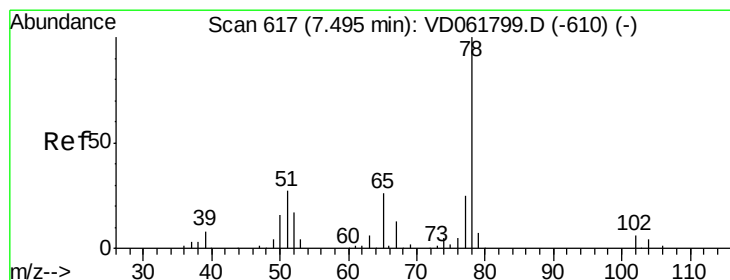
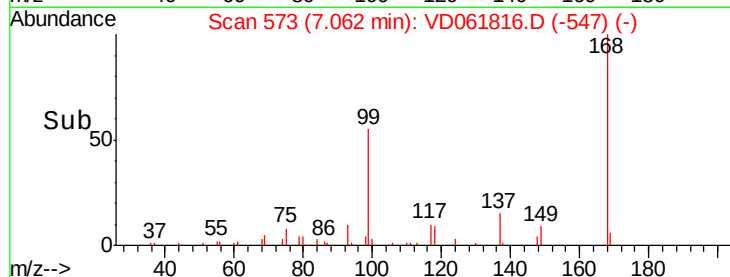
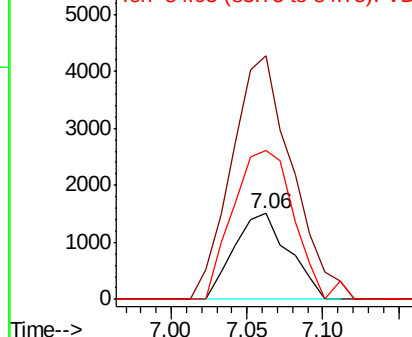
56 100

69 283.0 25.8 38.6#

84 173.2 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: 7.47 min Scan# 614

Delta R.T. -0.03 min

Lab File: VD061816.D

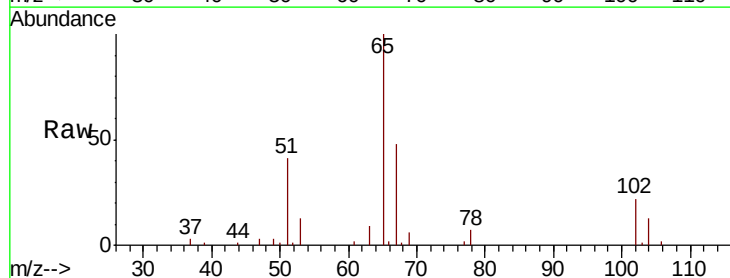
Acq: 16 Apr 2019 17:31

Tgt Ion: 65 Resp: 142394

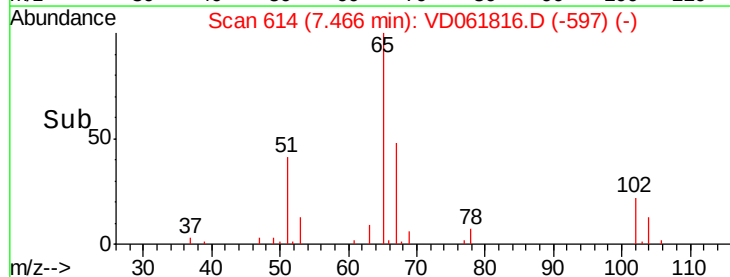
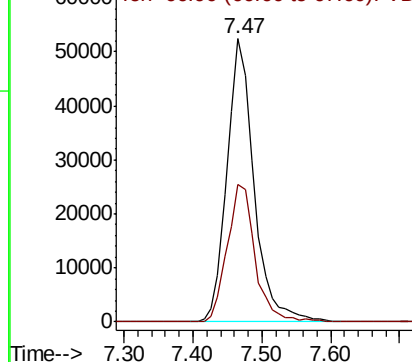
Ion Ratio Lower Upper

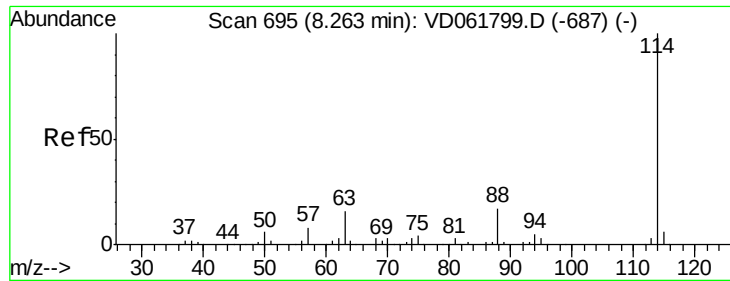
65 100

67 48.4 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

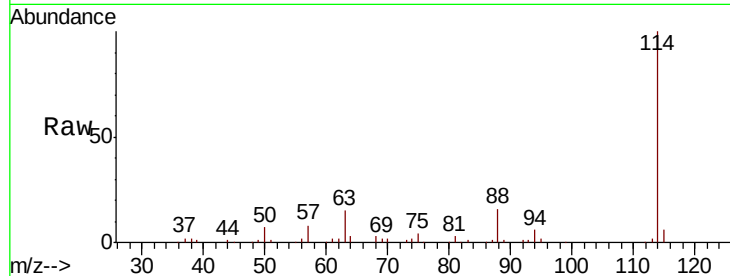




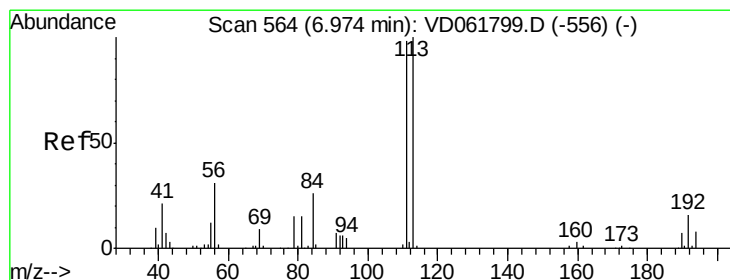
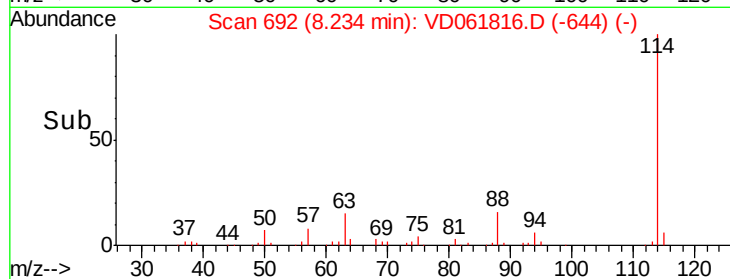
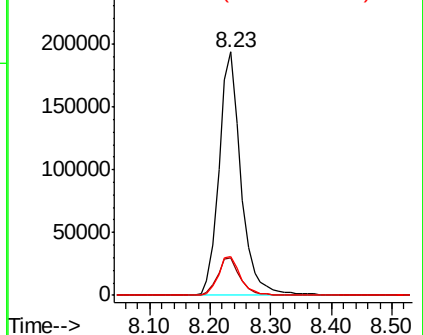
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. -0.03 min
 Lab File: VD061816.D
 Acq: 16 Apr 2019 17:31

Instrument :
 MSVOA_D
 ClientSampled :
 TP-7-D2

Tgt Ion:114 Resp: 486497
 Ion Ratio Lower Upper
 114 100
 63 15.3 0.0 32.4
 88 16.0 0.0 33.6

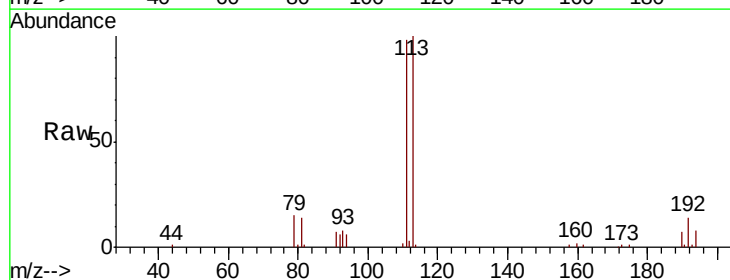


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

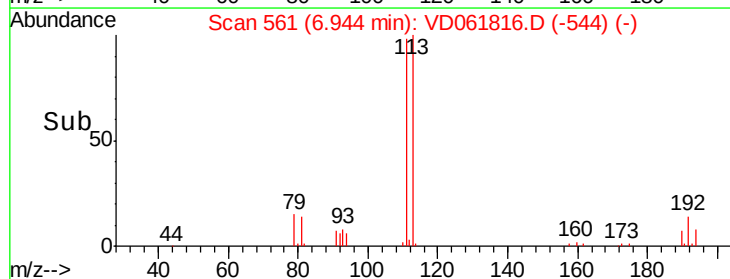
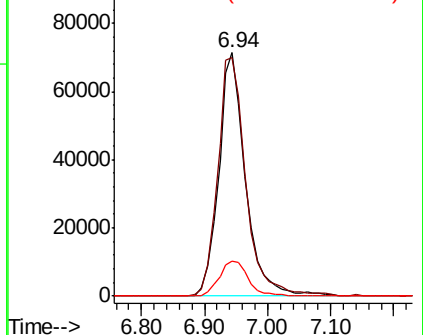


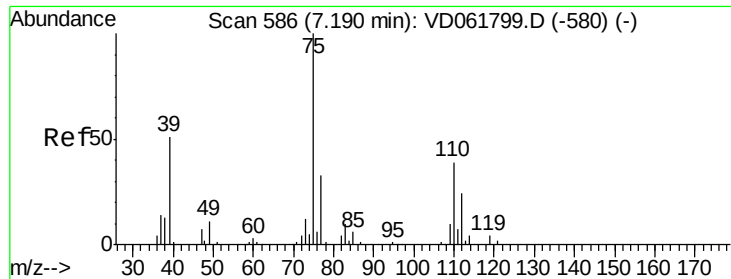
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.94 min Scan# 561
 Delta R.T. -0.03 min
 Lab File: VD061816.D
 Acq: 16 Apr 2019 17:31

Tgt Ion:113 Resp: 209691
 Ion Ratio Lower Upper
 113 100
 111 98.1 78.5 117.7
 192 14.2 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

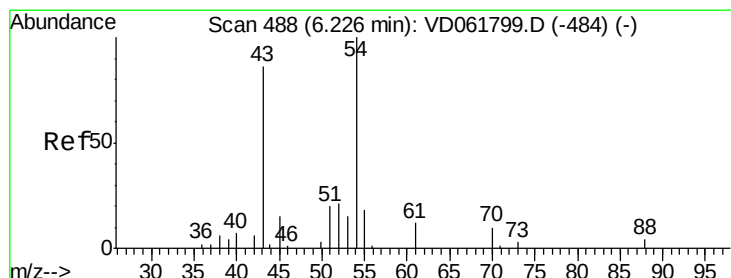
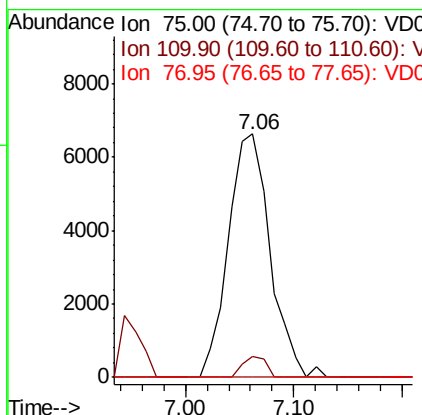
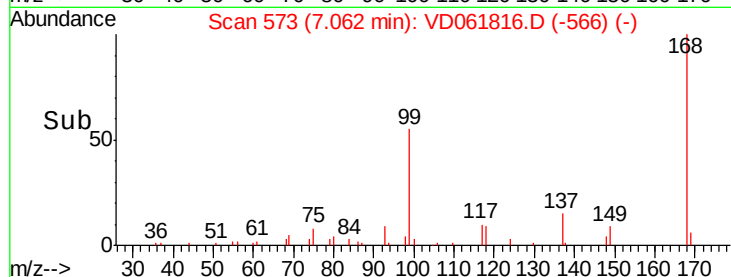
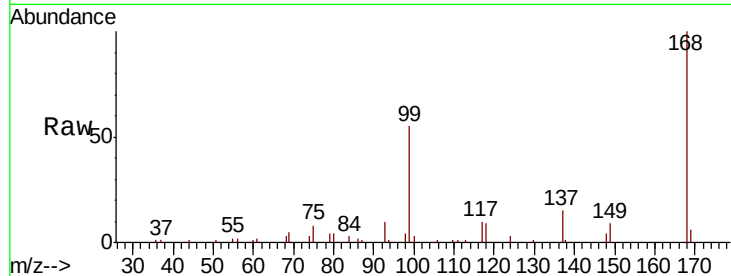




#36
 1,1-Dichloropropene
 Concen: 4.461 ug/l
 RT: 7.06 min Scan# 573
 Delta R.T. -0.13 min
 Lab File: VD061816.D
 Acq: 16 Apr 2019 17:31

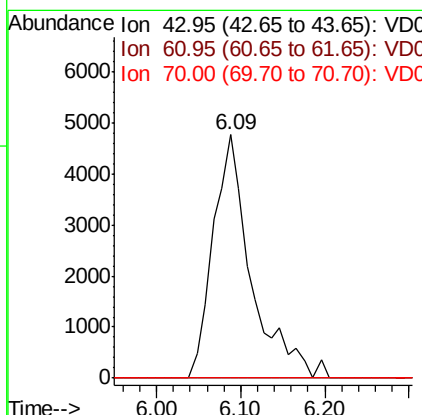
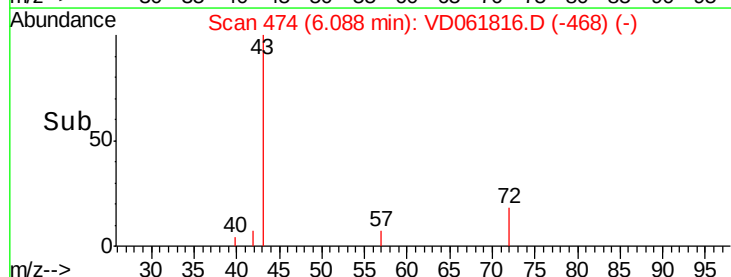
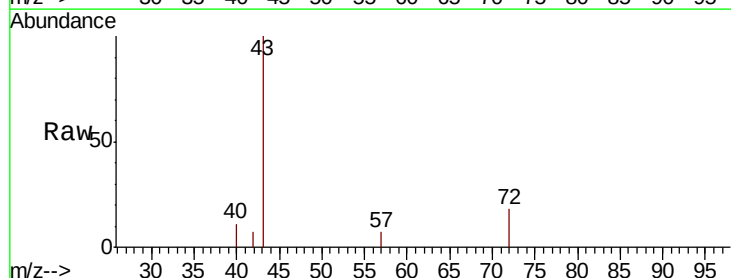
Instrument :
 MSVOA_D
 ClientSampleId :
 TP-7-D2

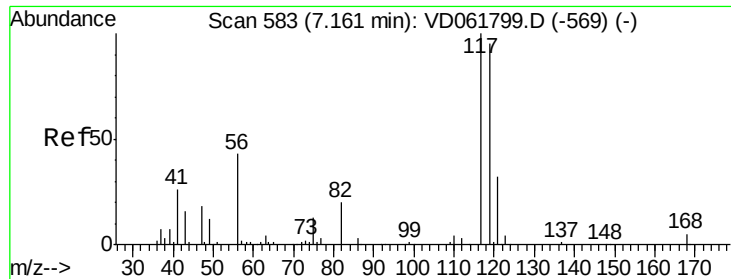
Tgt Ion: 75 Resp: 17736
 Ion Ratio Lower Upper
 75 100
 110 8.6 19.1 57.1#
 77 0.0 25.6 38.4#



#37
 Ethyl Acetate
 Concen: 8.814 ug/l
 RT: 6.09 min Scan# 474
 Delta R.T. -0.14 min
 Lab File: VD061816.D
 Acq: 16 Apr 2019 17:31

Tgt Ion: 43 Resp: 14996
 Ion Ratio Lower Upper
 43 100
 61 0.0 14.7 22.1#
 70 0.0 7.8 11.6#

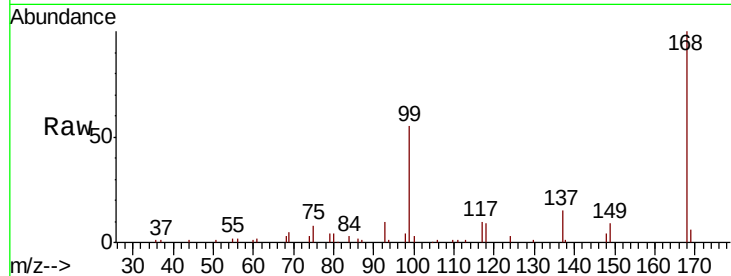




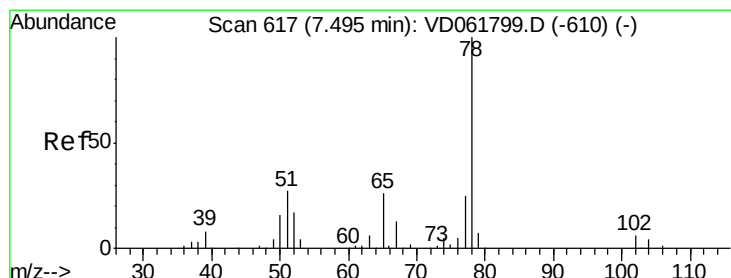
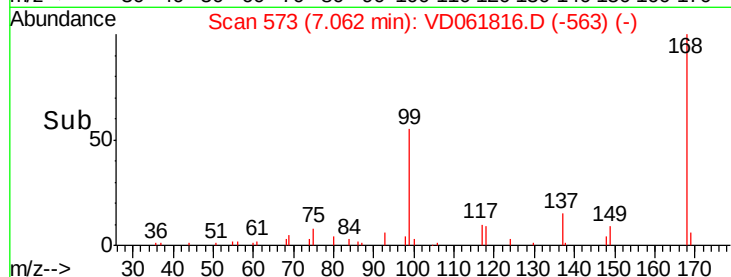
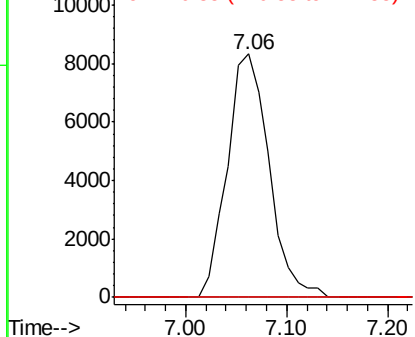
#38
Carbon Tetrachloride
Concen: 4.786 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.10 min
Lab File: VD061816.D
Acq: 16 Apr 2019 17:31

Instrument :
MSVOA_D
ClientSampleId :
TP-7-D2

Tgt Ion:117 Resp: 24025
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.8#
121 0.0 25.9 38.9#

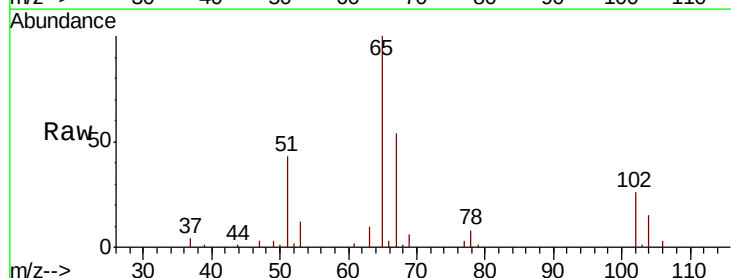


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

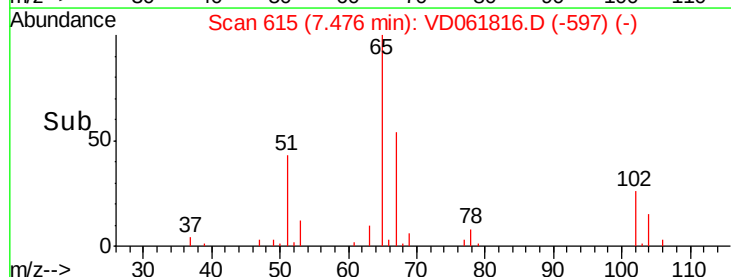
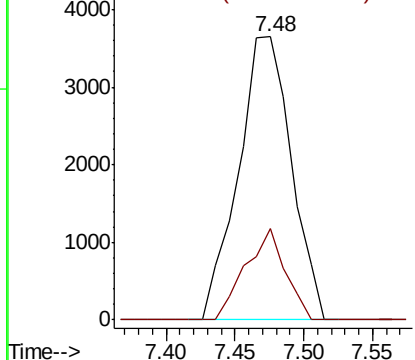


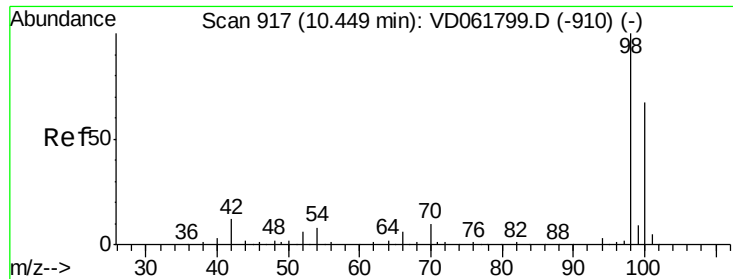
#40
Benzene
Concen: 1.024 ug/l
RT: 7.48 min Scan# 615
Delta R.T. -0.02 min
Lab File: VD061816.D
Acq: 16 Apr 2019 17:31

Tgt Ion: 78 Resp: 9773
Ion Ratio Lower Upper
78 100
77 32.4 19.7 29.5#



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

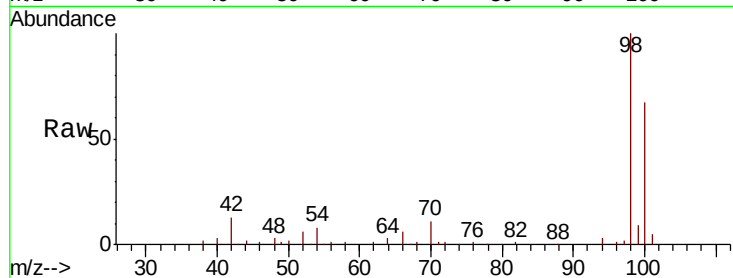




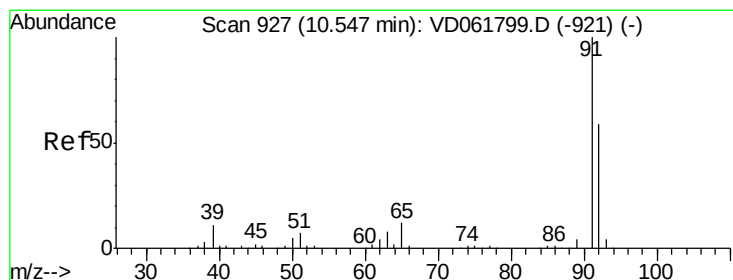
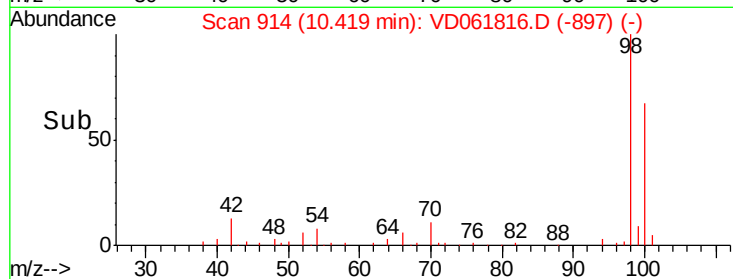
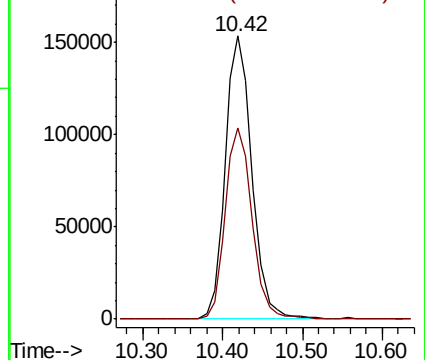
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.42 min Scan# 914
Delta R.T. -0.03 min
Lab File: VD061816.D
Acq: 16 Apr 2019 17:31

Instrument :
MSVOA_D
ClientSampleId :
TP-7-D2

Tgt Ion: 98 Resp: 361590
Ion Ratio Lower Upper
98 100
100 67.4 53.8 80.8

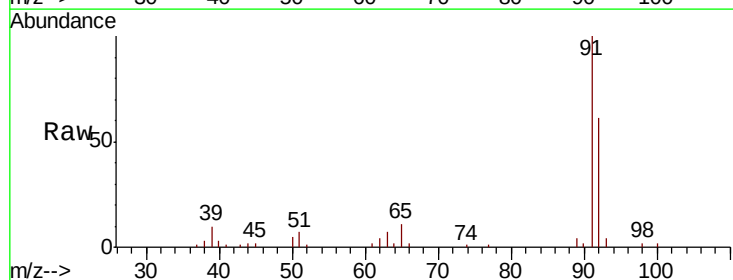


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

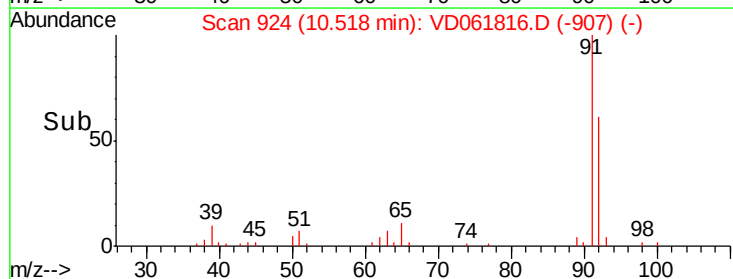
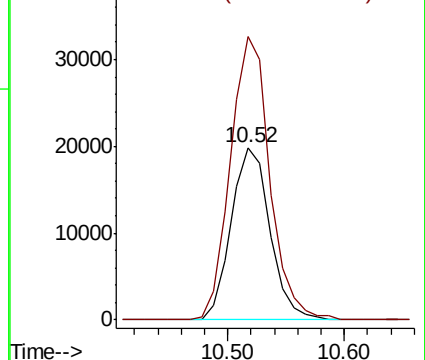


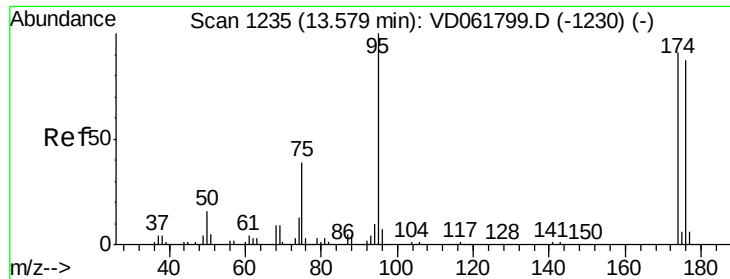
#52
Toluene
Concen: 7.457 ug/l
RT: 10.52 min Scan# 924
Delta R.T. -0.03 min
Lab File: VD061816.D
Acq: 16 Apr 2019 17:31

Tgt Ion: 92 Resp: 45609
Ion Ratio Lower Upper
92 100
91 164.3 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC
Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VD061816.D

Acq: 16 Apr 2019 17:31

Instrument :

MSVOA_D

ClientSampleId :

TP-7-D2

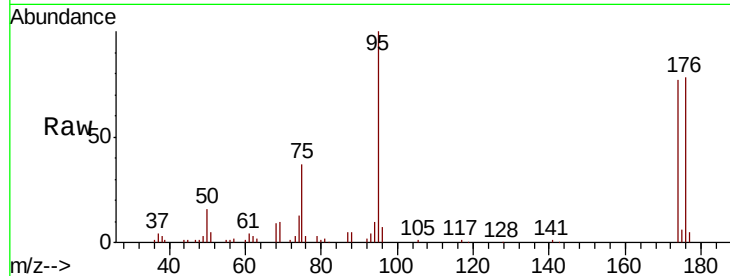
Tgt Ion: 95 Resp: 96031

Ion Ratio Lower Upper

95 100

174 77.2 0.0 181.8

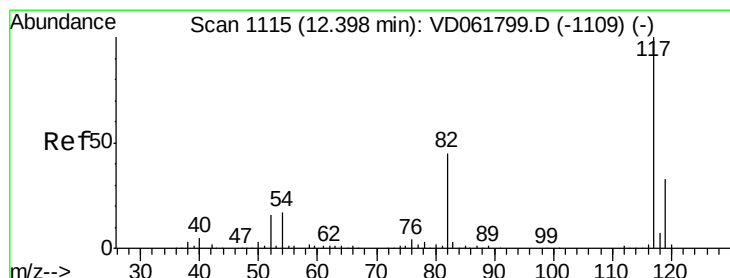
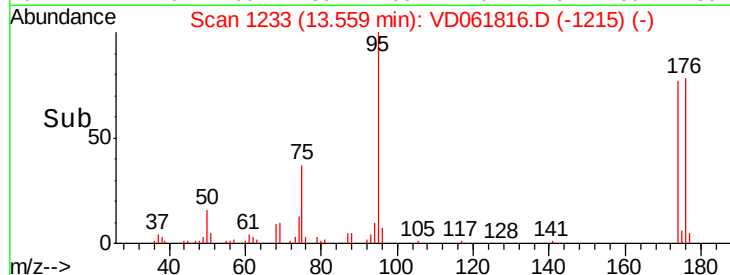
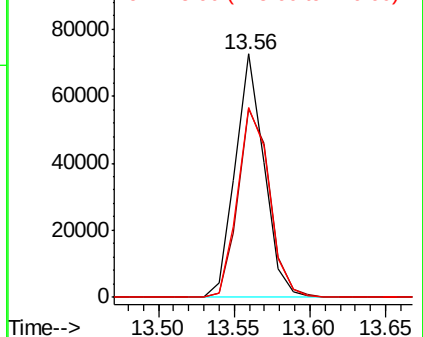
176 78.2 0.0 174.4



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: VD061816.D

Acq: 16 Apr 2019 17:31

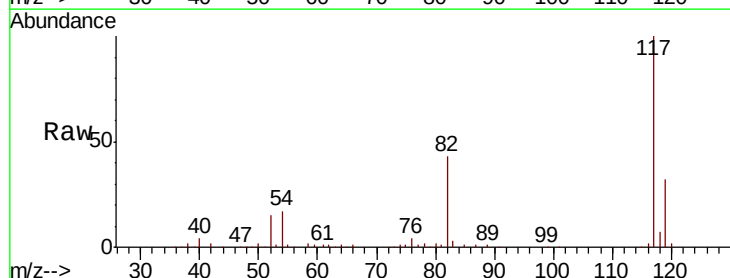
Tgt Ion: 117 Resp: 325722

Ion Ratio Lower Upper

117 100

82 42.8 36.2 54.2

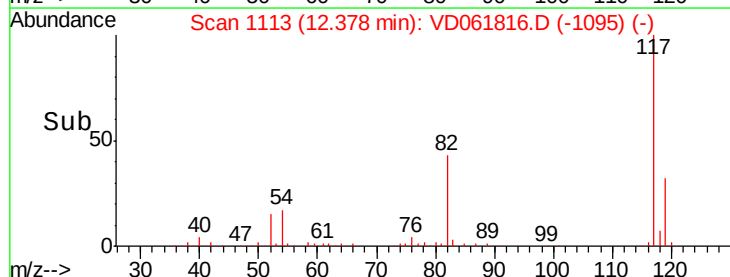
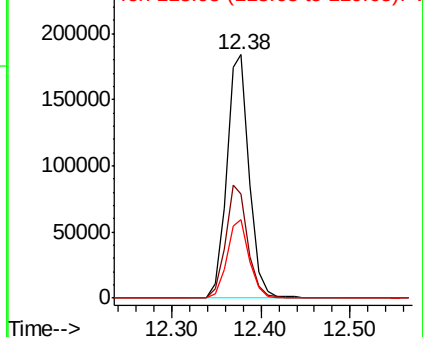
119 32.1 26.2 39.4

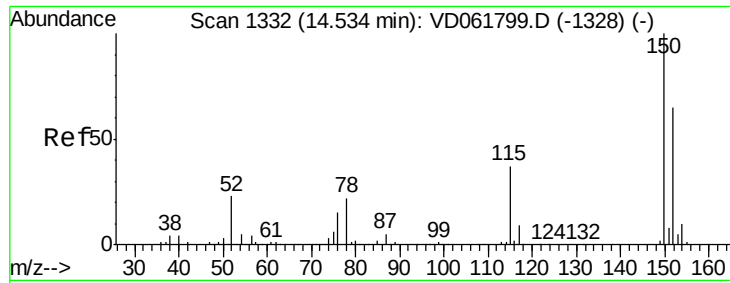


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

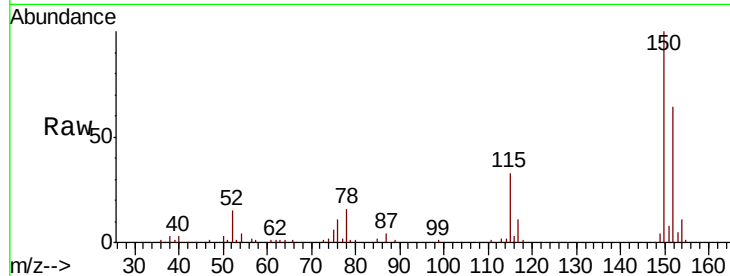




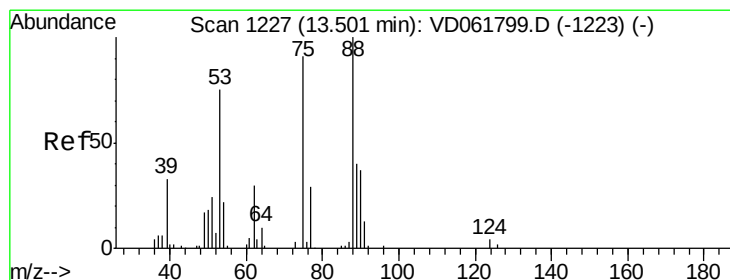
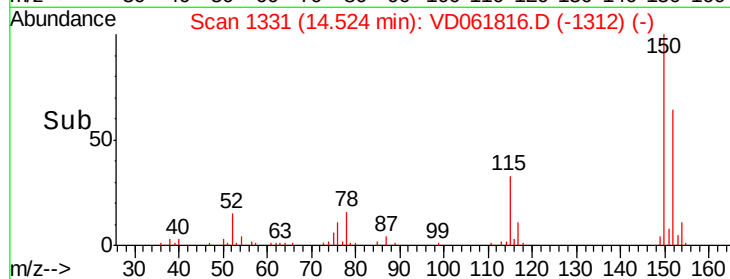
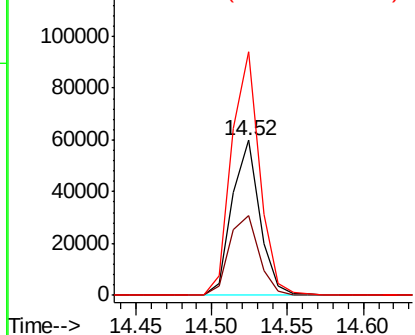
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VD061816.D
 Acq: 16 Apr 2019 17:31

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-7-D2

Tgt Ion: 152 Resp: 76192
 Ion Ratio Lower Upper
 152 100
 115 51.3 30.9 92.7
 150 156.9 0.0 314.8

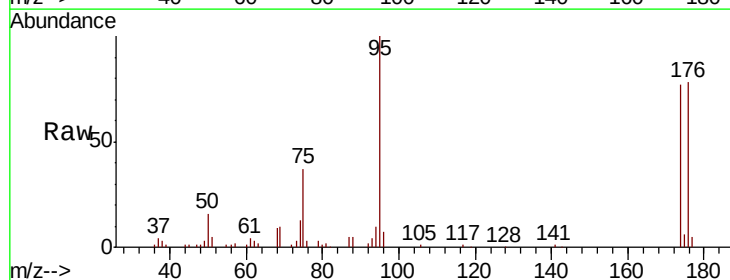


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 149.90 (149.60 to 150.60): V

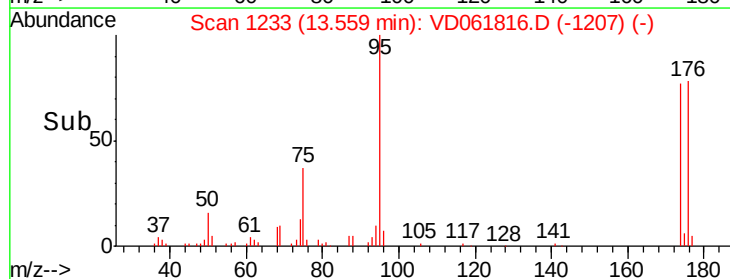
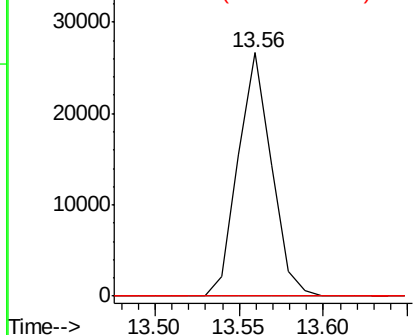


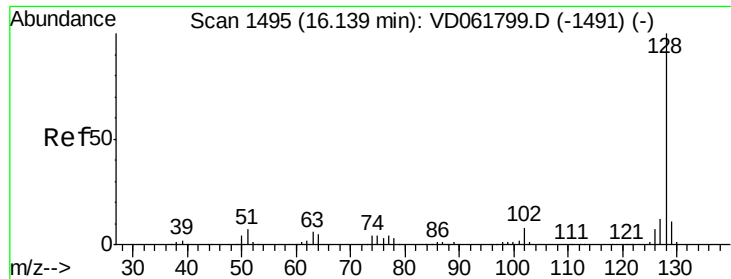
#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.791 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.06 min
 Lab File: VD061816.D
 Acq: 16 Apr 2019 17:31

Tgt Ion: 75 Resp: 36640
 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

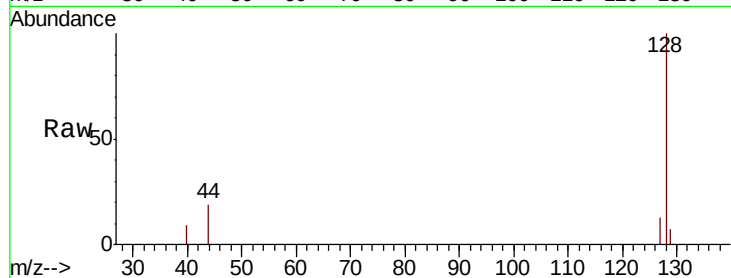




#95
 Naphthalene
 Concen: 2.611 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. -0.01 min
 Lab File: VD061816.D
 Acq: 16 Apr 2019 17:31

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-7-D2

Tgt Ion:128 Resp: 4512
 Ion Ratio Lower Upper
 128 100
 127 13.0 9.8 14.8
 129 7.4 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

