

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD082318\
 Data File : VD059891.D
 Acq On : 23 Aug 2018 16:36
 Operator : JC/SY
 Sample : J4559-08
 Misc : 5.08g/5ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-SSW-145-052

Quant Time: Aug 24 05:26:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082218S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 03:03:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.40	168	911281	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	7.43	114	1302695	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.28	117	838446	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.37	152	278348	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	479758	62.46	ug/l	-0.02
Spiked Amount			Recovery	=	124.92%	
35) Dibromofluoromethane	6.31	113	571983	56.00	ug/l	-0.02
Spiked Amount			Recovery	=	112.00%	
50) Toluene-d8	9.45	98	1224157	43.19	ug/l	-0.01
Spiked Amount			Recovery	=	86.38%	
62) 4-Bromofluorobenzene	12.42	95	392402	34.09	ug/l	-0.01
Spiked Amount			Recovery	=	68.18%	

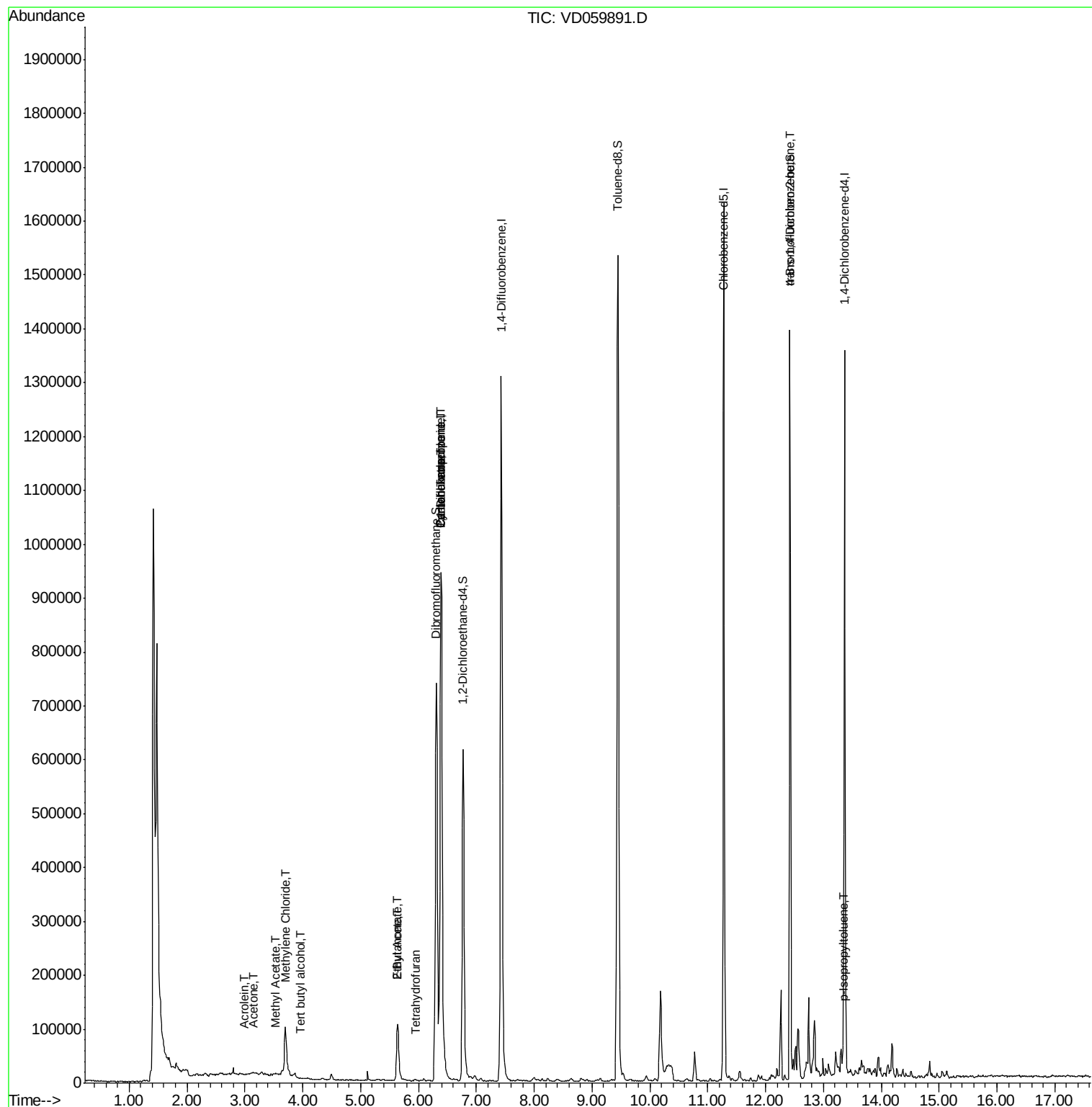
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.95	59	1081	1.84	ug/l #	75
13) Acrolein	2.99	56	1591	6.26	ug/l #	23
16) Acetone	3.14	43	7738	5.53	ug/l #	89
18) Methyl Acetate	3.53	43	5771	1.98	ug/l #	90
20) Methylene Chloride	3.70	84	53911	2.22	ug/l	98
25) 2-Butanone	5.64	43	14471	3.49	ug/l #	63
29) Tetrahydrofuran	5.95	42	2890	1.46	ug/l #	43
31) Cyclohexane	6.39	56	20608	1.41	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	66668	5.65	ug/l #	47
37) Ethyl Acetate	5.64	43	14471	1.57	ug/l #	36
38) Carbon Tetrachloride	6.39	117	75168	6.31	ug/l #	15
81) trans-1,4-Dichloro-2-buten	12.42	75	163606	121.58	ug/l #	12
86) p-Isopropyltoluene	13.34	119	18947	1.23	ug/l	97
89) n-Butylbenzene	13.64	91	1768	Below Cal	#	29

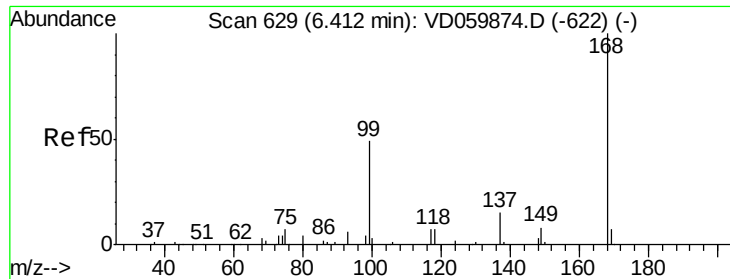
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 6.40 min Scan# 627

Delta R.T. -0.01 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

Instrument :

MSVOA_D

ClientSampleId :

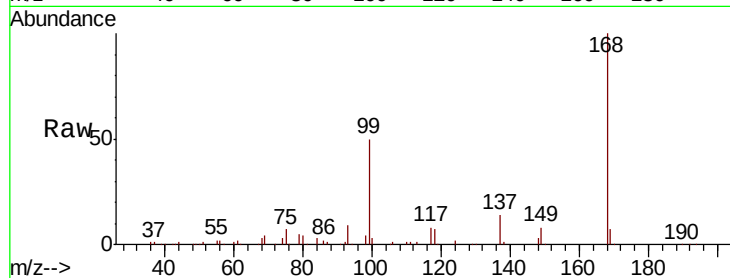
RA-081718-SSW-145-052

Tot Ion:168 Resp: 911281

Ion Ratio Lower Upper

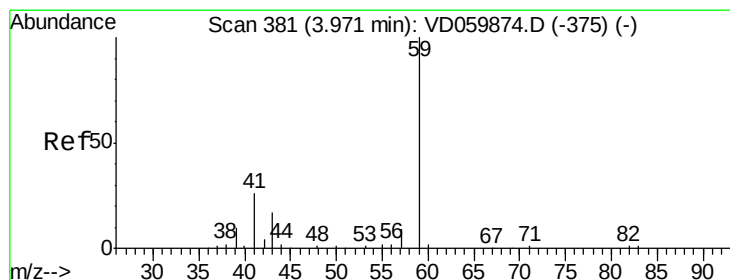
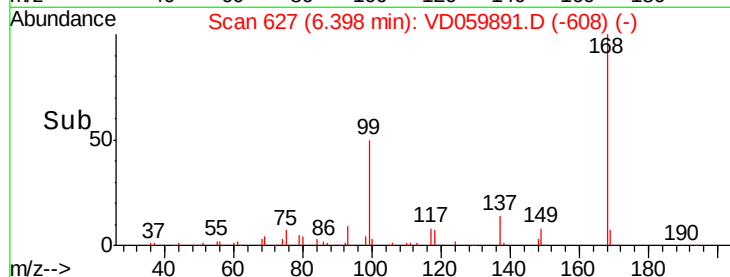
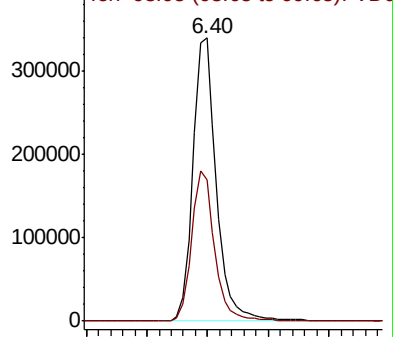
168 100

99 49.8 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.84 ug/l

RT: 3.95 min Scan# 378

Delta R.T. -0.02 min

Lab File: VD059891.D

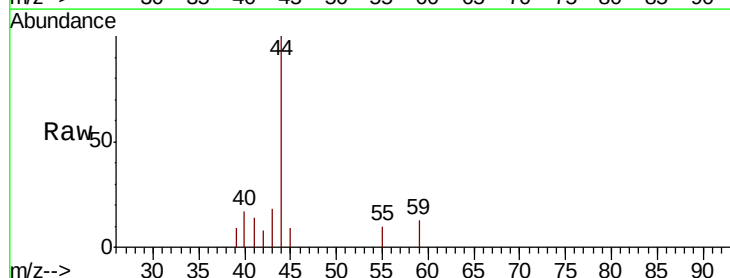
Acq: 23 Aug 2018 16:36

Tgt Ion: 59 Resp: 1081

Ion Ratio Lower Upper

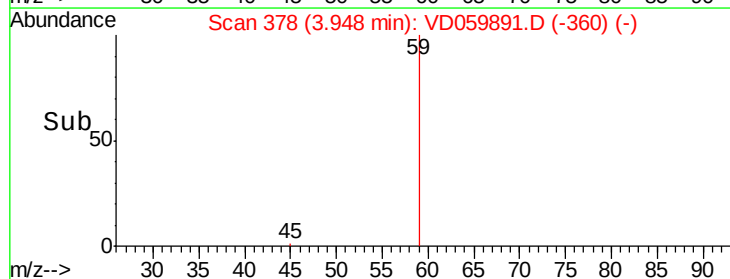
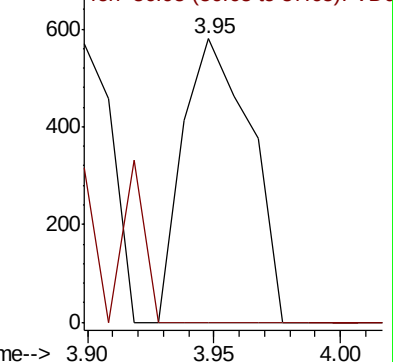
59 100

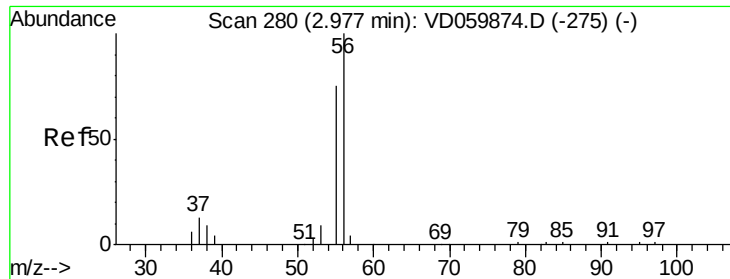
57 0.0 7.4 11.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 6.26 ug/l

RT: 2.99 min Scan# 281

Delta R.T. 0.02 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

Instrument :

MSVOA_D

ClientSampleId :

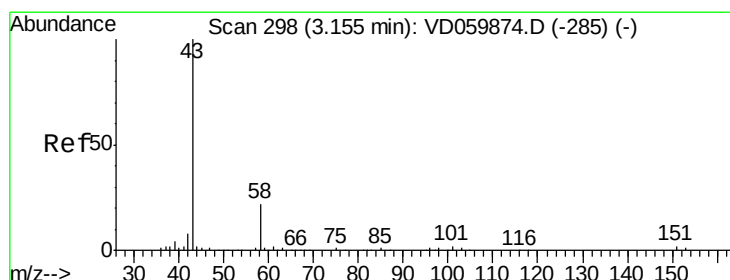
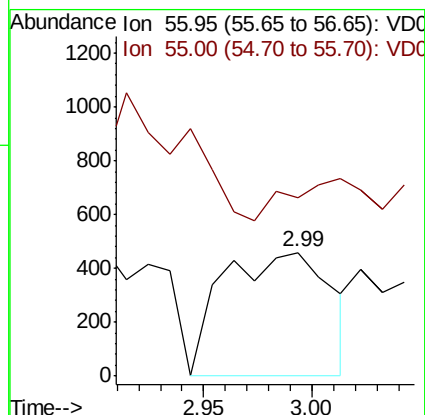
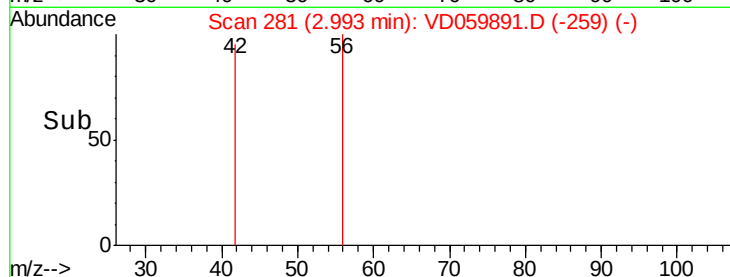
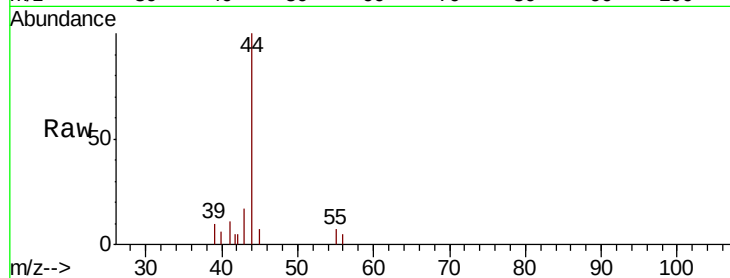
RA-081718-SSW-145-052

Tot Ion: 56 Resp: 1591

Ion Ratio Lower Upper

56 100

55 144.1 61.9 92.9#



#16

Acetone

Concen: 5.53 ug/l

RT: 3.14 min Scan# 296

Delta R.T. -0.01 min

Lab File: VD059891.D

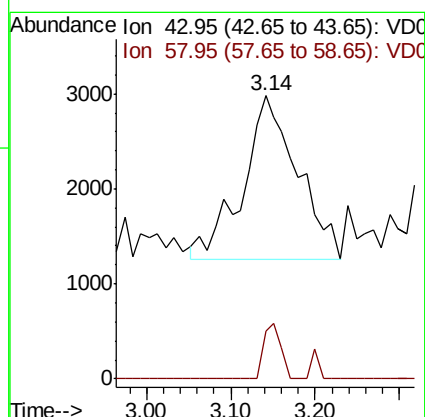
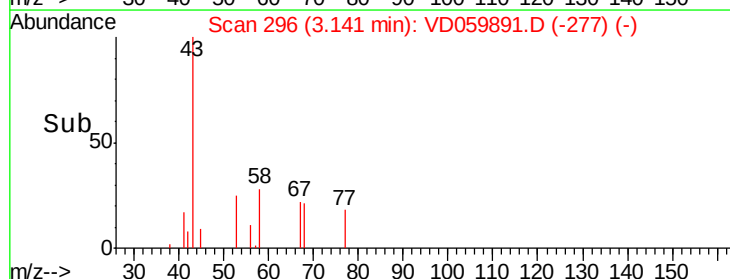
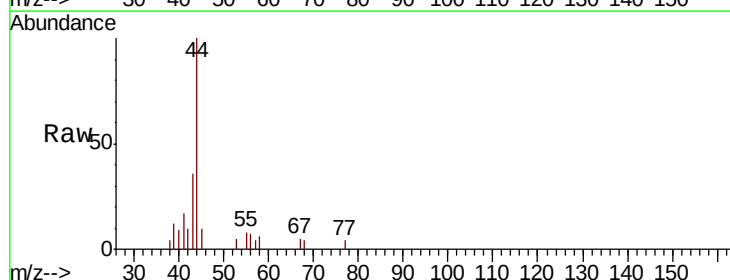
Acq: 23 Aug 2018 16:36

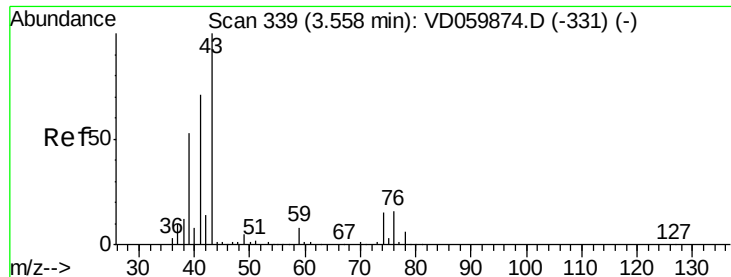
Tgt Ion: 43 Resp: 7738

Ion Ratio Lower Upper

43 100

58 16.7 17.6 26.4#

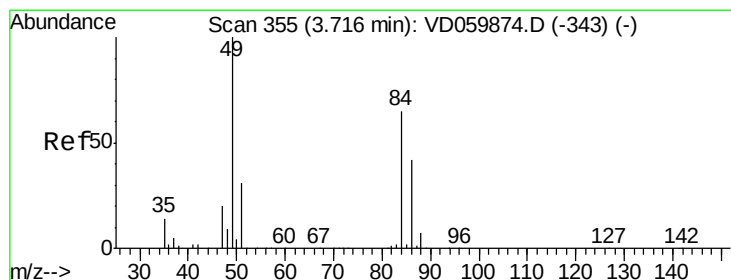
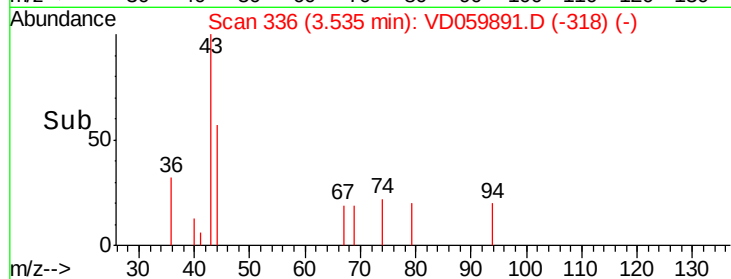
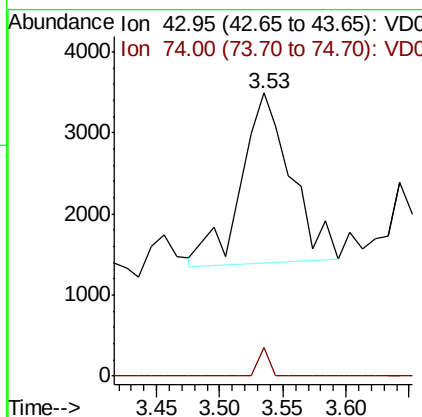
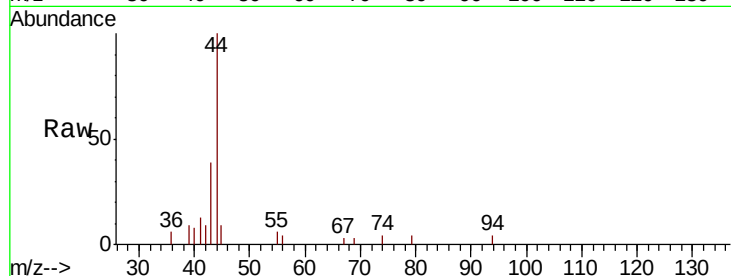




#18
Methyl Acetate
Concen: 1.98 ug/l
RT: 3.53 min Scan# 336
Delta R.T. -0.02 min
Lab File: VD059891.D
Acq: 23 Aug 2018 16:36

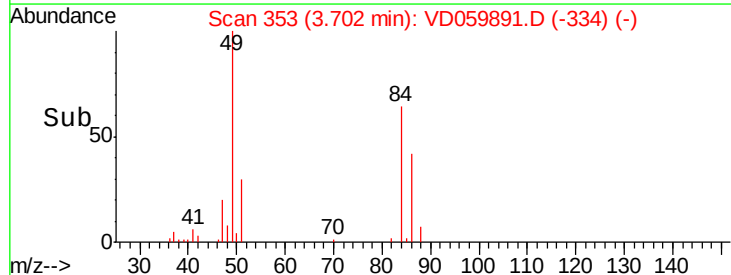
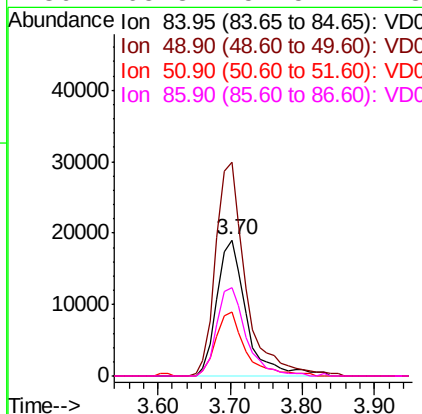
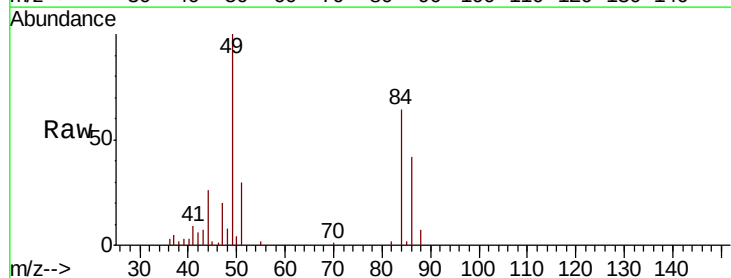
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-145-052

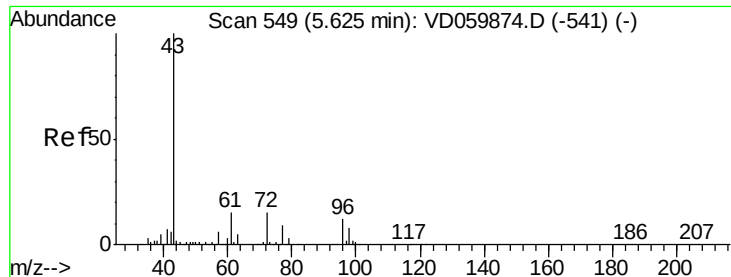
Tot Ion: 43 Resp: 5771
Ion Ratio Lower Upper
43 100
74 9.9 11.2 16.8#



#20
Methylene Chloride
Concen: 2.22 ug/l
RT: 3.70 min Scan# 353
Delta R.T. -0.01 min
Lab File: VD059891.D
Acq: 23 Aug 2018 16:36

Tgt Ion: 84 Resp: 53911
Ion Ratio Lower Upper
84 100
49 157.3 122.6 183.8
51 46.8 38.4 57.6
86 65.3 51.5 77.3





#25

2-Butanone

Concen: 3.49 ug/l

RT: 5.64 min Scan# 550

Delta R.T. 0.02 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

Instrument :

MSVOA_D

ClientSampleId :

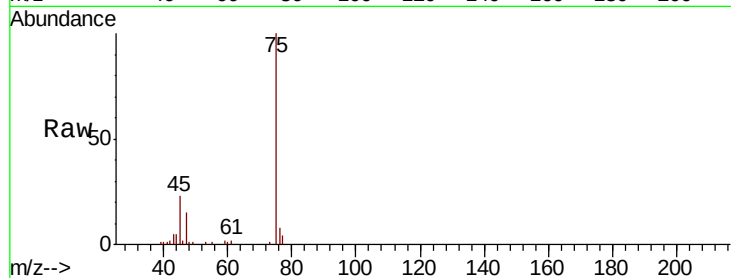
RA-081718-SSW-145-052

Tot Ion: 43 Resp: 14471

Ion Ratio Lower Upper

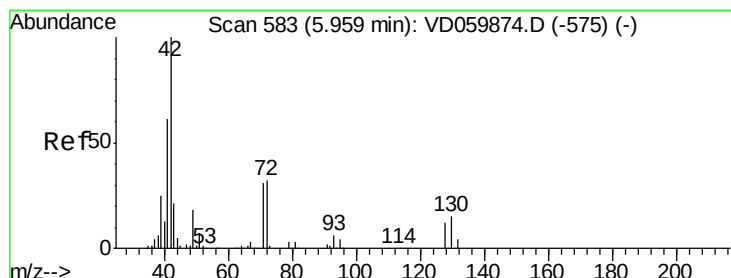
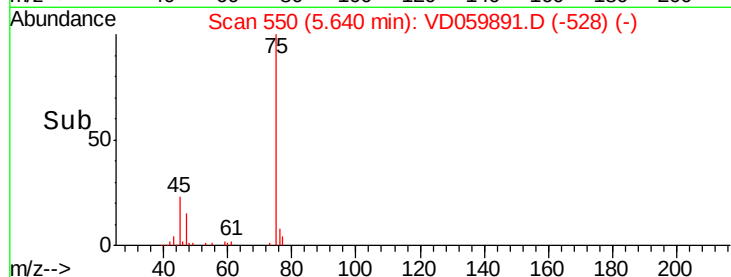
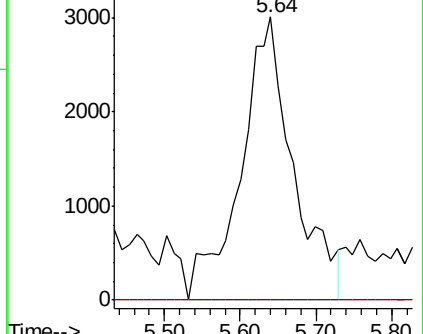
43 100

72 0.0 12.3 18.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.46 ug/l

RT: 5.95 min Scan# 581

Delta R.T. -0.01 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

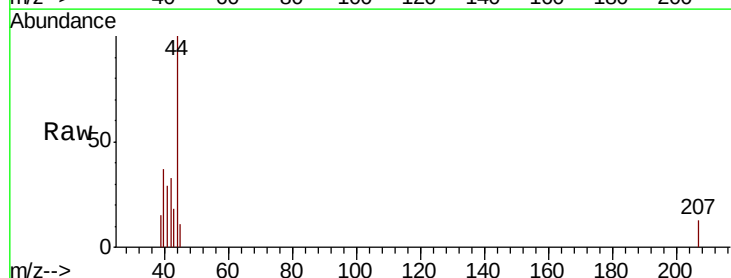
Tgt Ion: 42 Resp: 2890

Ion Ratio Lower Upper

42 100

72 0.0 25.7 38.5#

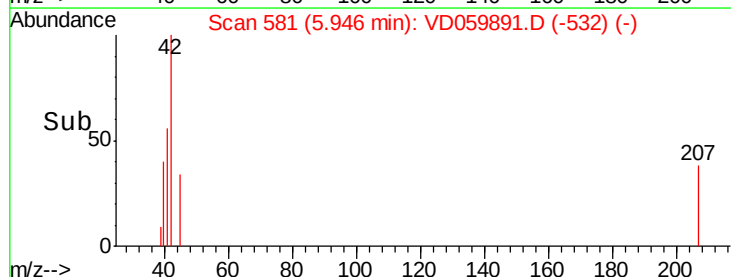
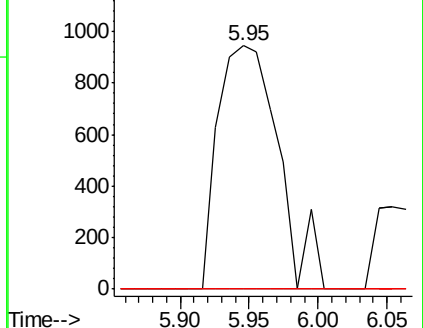
71 0.0 25.3 37.9#

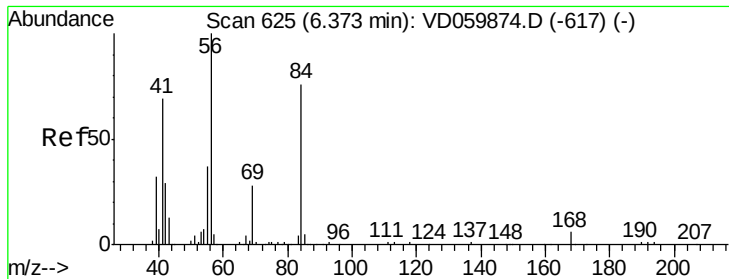


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

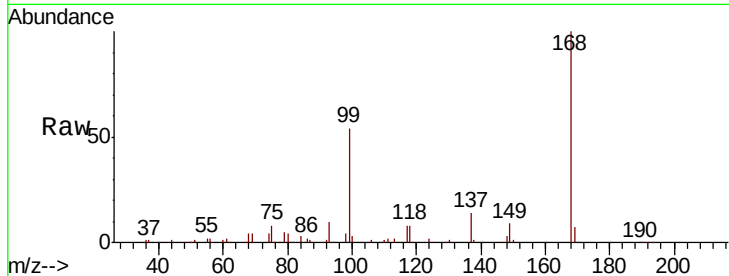




#31
Cyclohexane
Concen: 1.41 ug/l
RT: 6.39 min Scan# 626
Delta R.T. 0.02 min
Lab File: VD059891.D
Acq: 23 Aug 2018 16:36

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-145-052

Tot Ion	56	69	84
Resp	20608		
Ratio	100	222.0	167.2
Lower		22.4	62.1
Upper		33.6#	93.1#

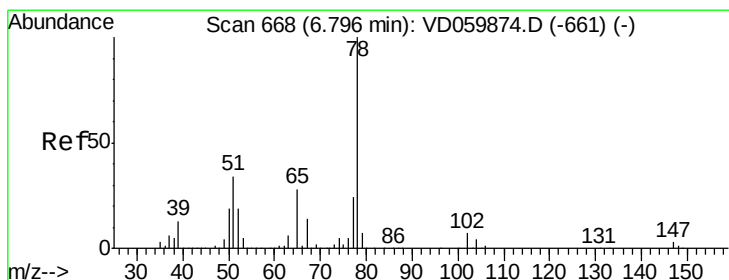
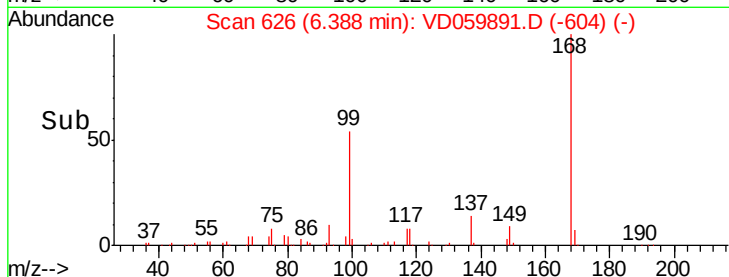
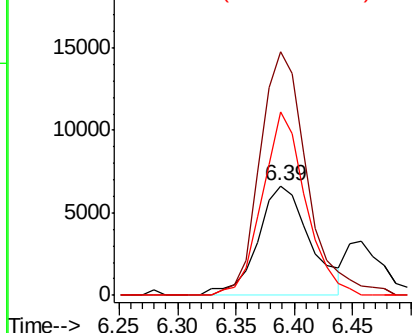


Abundance

Ion 55.95 (55.65 to 56.65): VDC

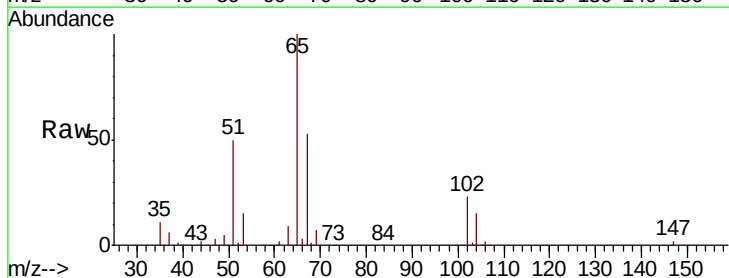
Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.77 min Scan# 665
Delta R.T. -0.02 min
Lab File: VD059891.D
Acq: 23 Aug 2018 16:36

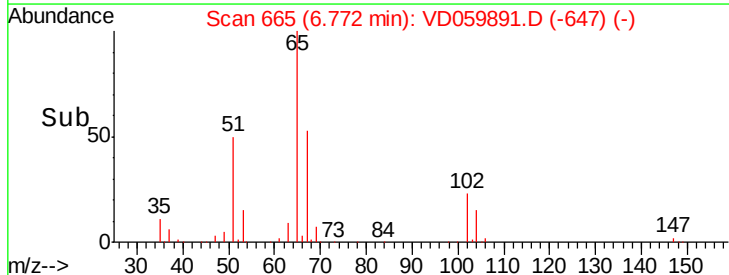
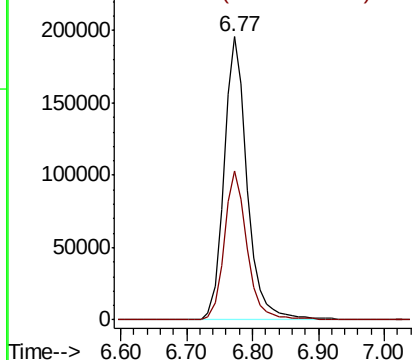
Tgt Ion	65	67
Resp	479758	
Ratio	100	52.9
Lower		0.0
Upper		103.8

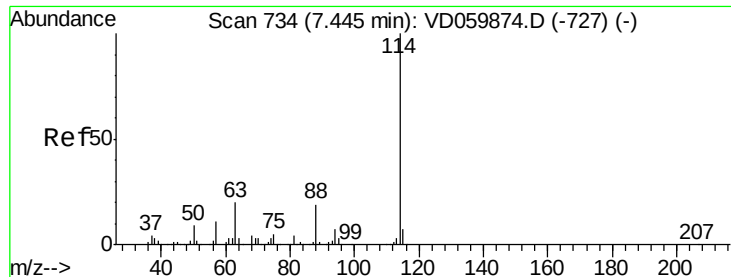


Abundance

Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 7.43 min Scan# 732

Delta R.T. -0.01 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

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RA-081718-SSW-145-052

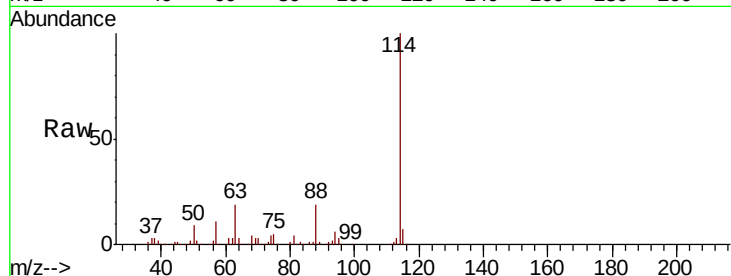
Tot Ion:114 Resp: 1302695

Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.4

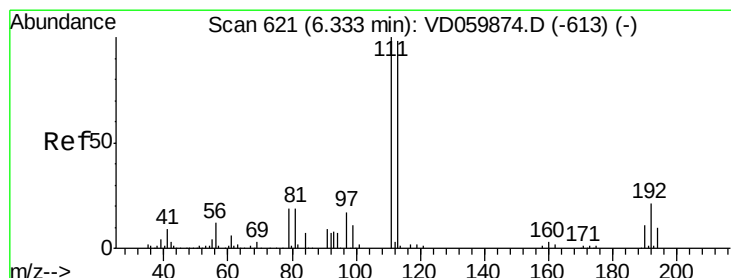
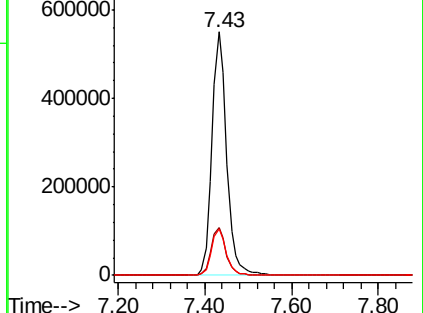
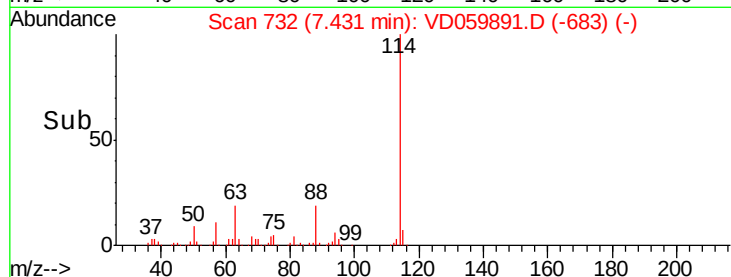
88 19.0 0.0 37.6



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: 50.00 ug/l

RT: 6.31 min Scan# 618

Delta R.T. -0.02 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

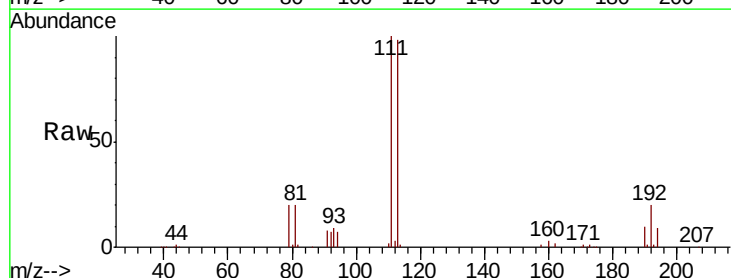
Tgt Ion:113 Resp: 571983

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.2

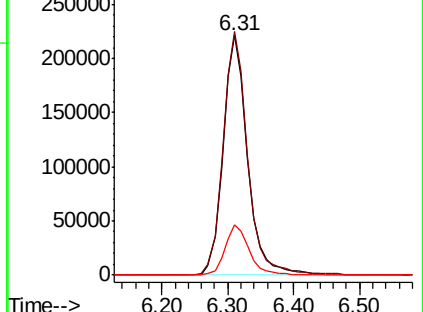
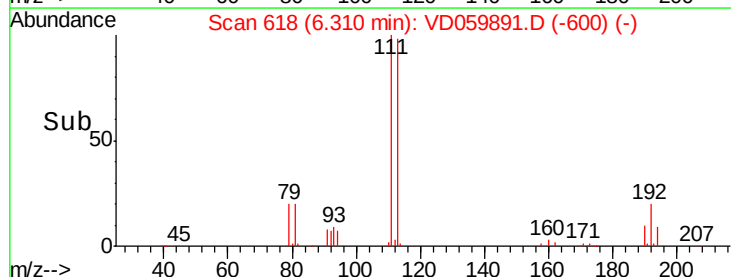
192 20.8 17.0 25.6

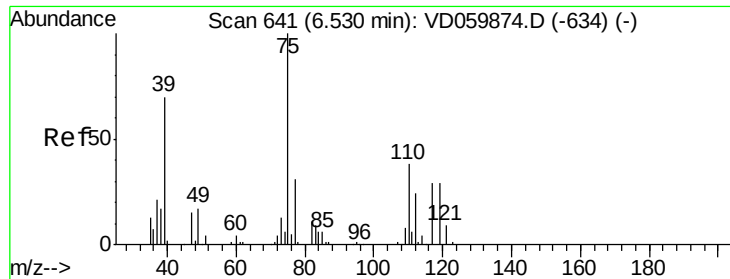


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

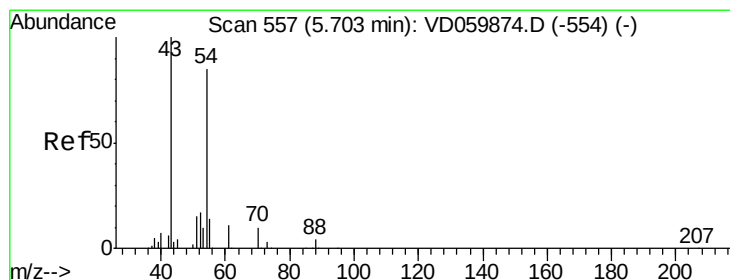
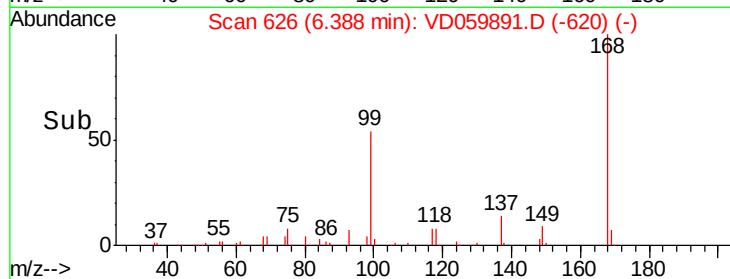
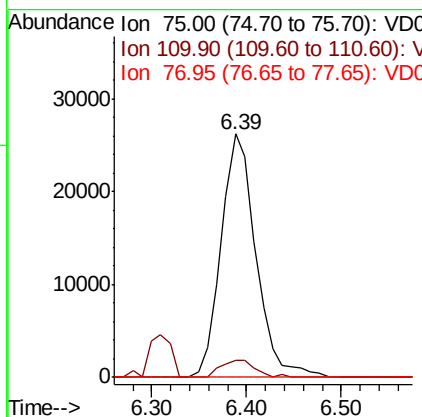
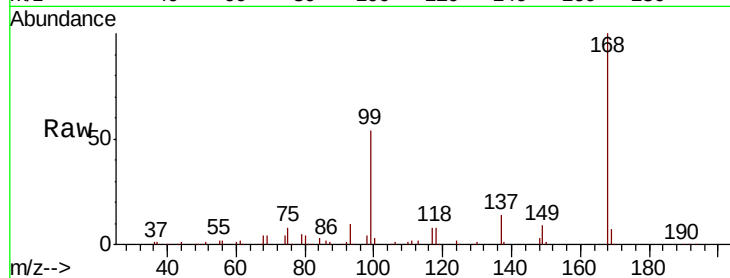




#36
 1,1-Dichloropropene
 Concen: 5.65 ug/l
 RT: 6.39 min Scan# 626
 Delta R.T. -0.14 min
 Lab File: VD059891.D
 Acq: 23 Aug 2018 16:36

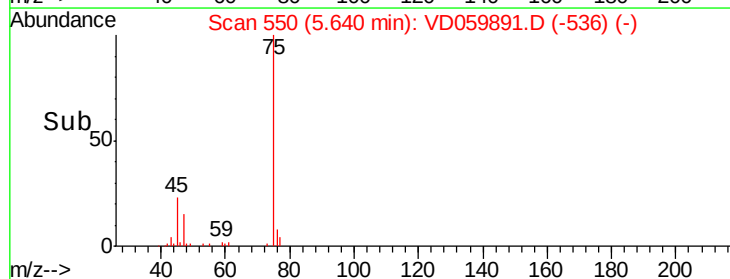
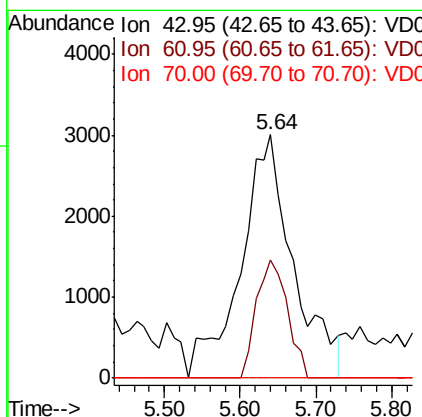
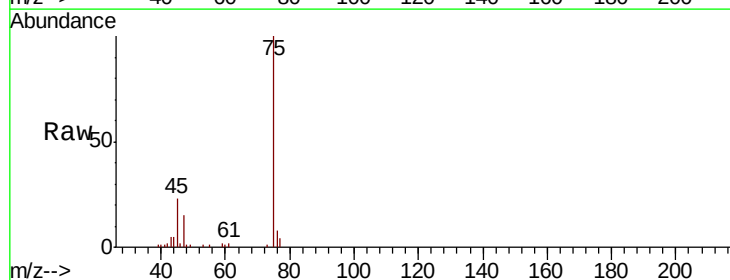
Instrument :
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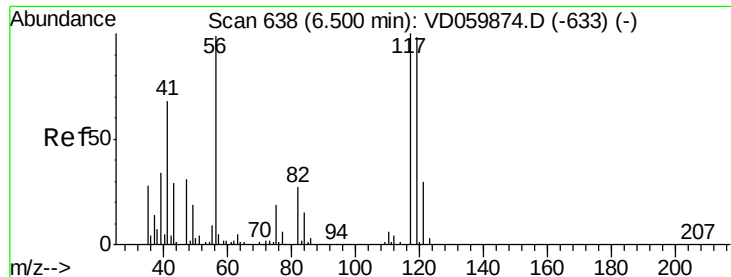
Tot Ion: 75 Resp: 66668
 Ion Ratio Lower Upper
 75 100
 110 7.0 18.6 56.0#
 77 0.0 25.1 37.7#



#37
 Ethyl Acetate
 Concen: 1.57 ug/l
 RT: 5.64 min Scan# 550
 Delta R.T. -0.06 min
 Lab File: VD059891.D
 Acq: 23 Aug 2018 16:36

Tgt Ion: 43 Resp: 14471
 Ion Ratio Lower Upper
 43 100
 61 48.5 11.0 16.6#
 70 0.0 5.7 8.5#





#38

Carbon Tetrachloride

Concen: 6.31 ug/l

RT: 6.39 min Scan# 626

Delta R.T. -0.11 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-145-052

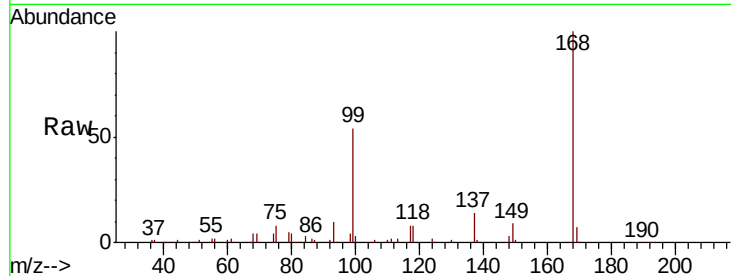
Tot Ion:117 Resp: 75168

Ion Ratio Lower Upper

117 100

119 4.6 77.2 115.8#

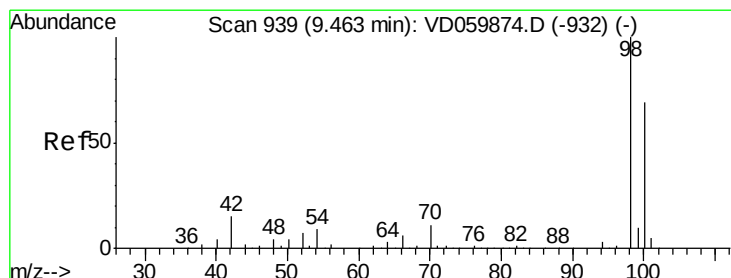
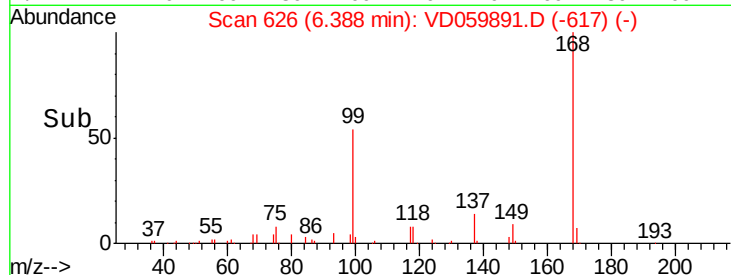
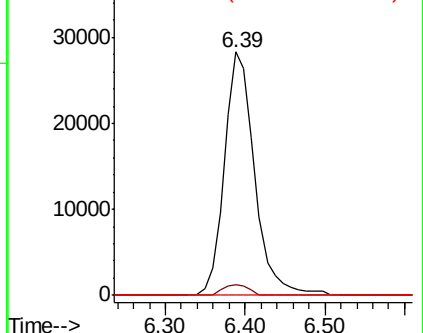
121 0.0 24.0 36.0#



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: N.D. ug/l

RT: 9.45 min Scan# 937

Delta R.T. -0.01 min

Lab File: VD059891.D

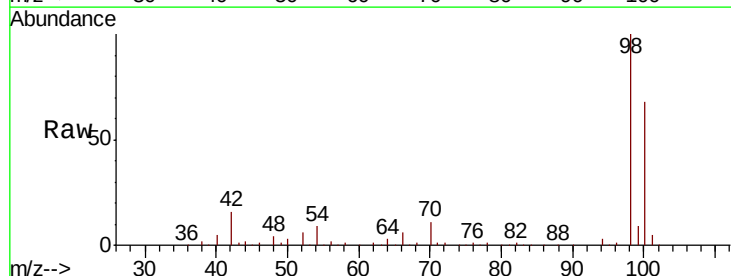
Acq: 23 Aug 2018 16:36

Tgt Ion: 98 Resp: 1224157

Ion Ratio Lower Upper

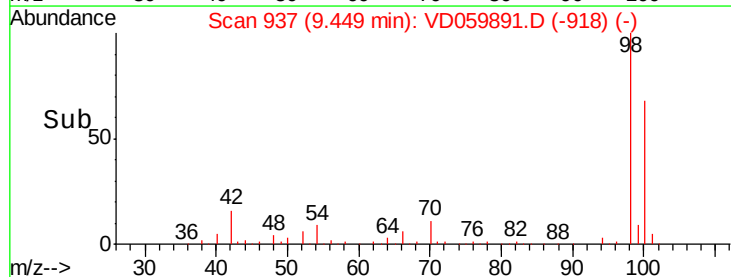
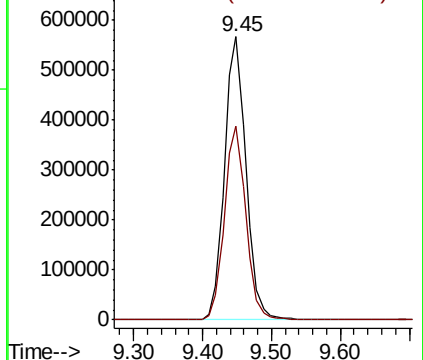
98 100

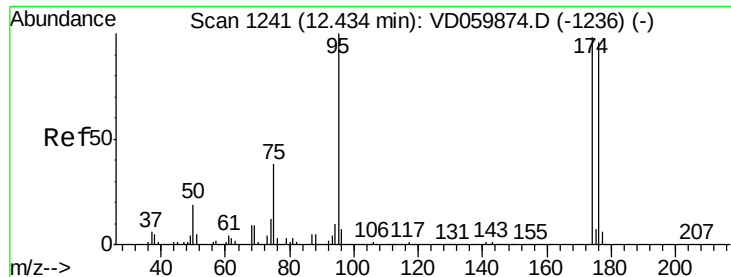
100 68.4 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

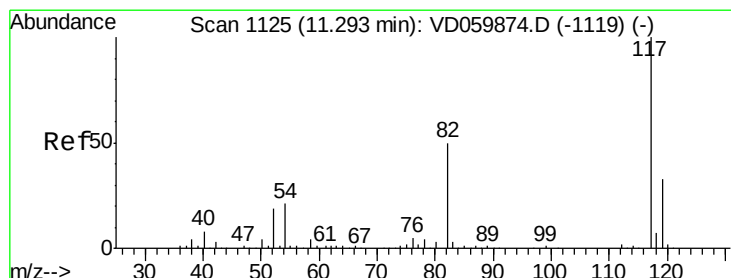
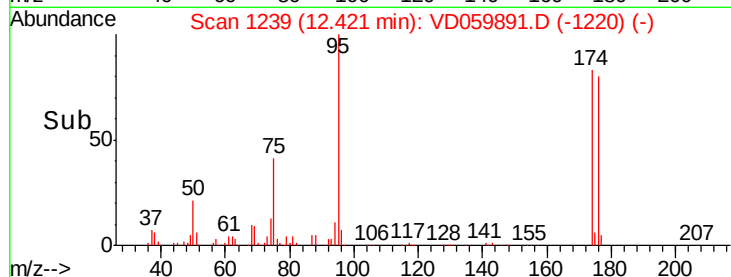
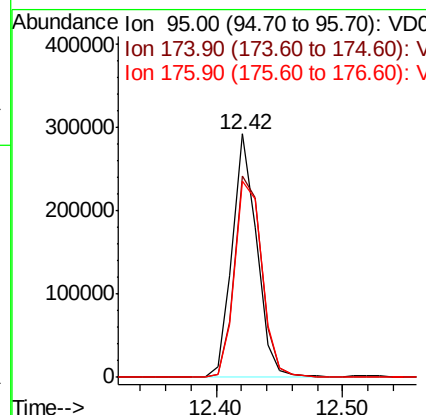
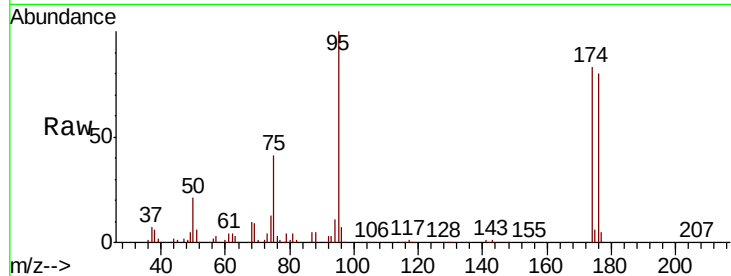




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.42 min Scan# 1239
Delta R.T. -0.01 min
Lab File: VD059891.D
Acq: 23 Aug 2018 16:36

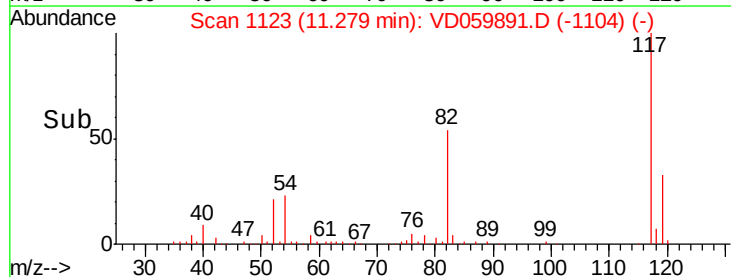
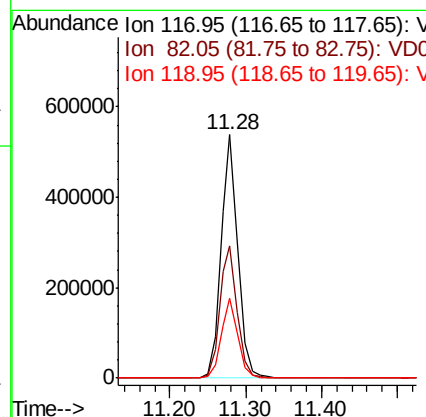
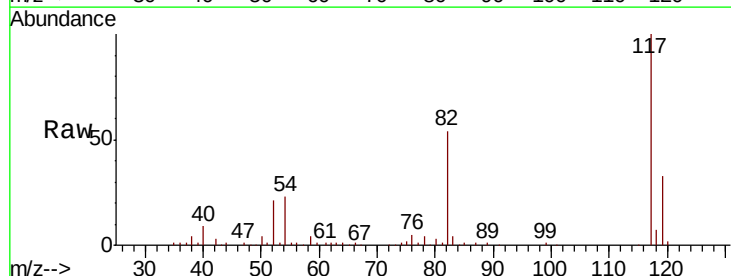
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-145-052

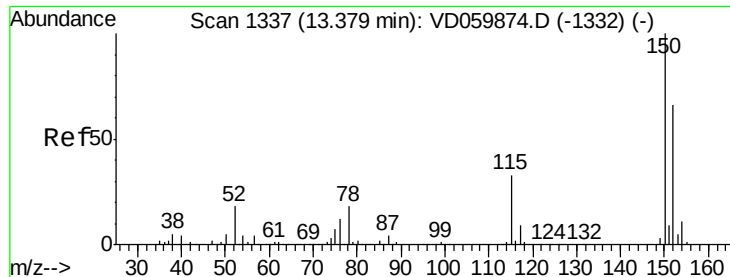
Tot Ion: 95 Resp: 392402
Ion Ratio Lower Upper
95 100
174 82.6 0.0 195.6
176 80.5 0.0 191.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.28 min Scan# 1123
Delta R.T. -0.01 min
Lab File: VD059891.D
Acq: 23 Aug 2018 16:36

Tgt Ion: 117 Resp: 838446
Ion Ratio Lower Upper
117 100
82 54.1 40.1 60.1
119 33.0 26.7 40.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.37 min Scan# 1335

Delta R.T. -0.01 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-145-052

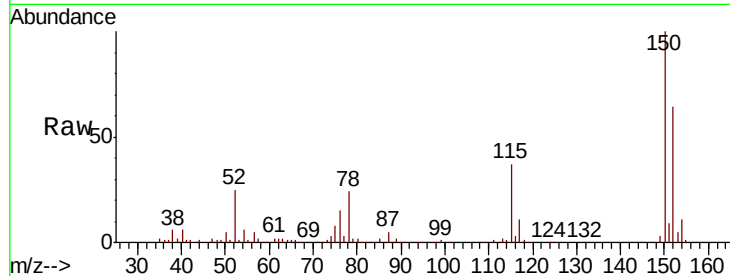
Tot Ion:152 Resp: 278348

Ion Ratio Lower Upper

152 100

115 56.9 25.7 77.0

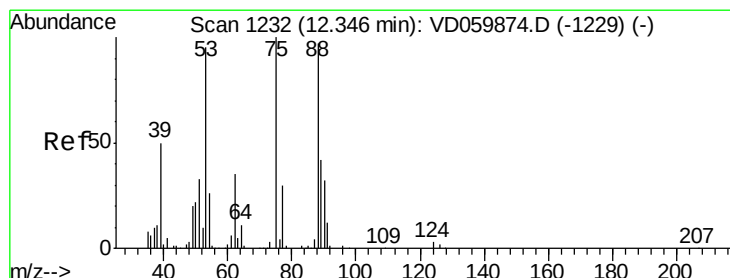
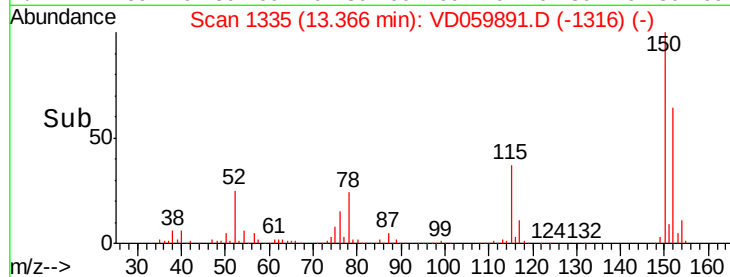
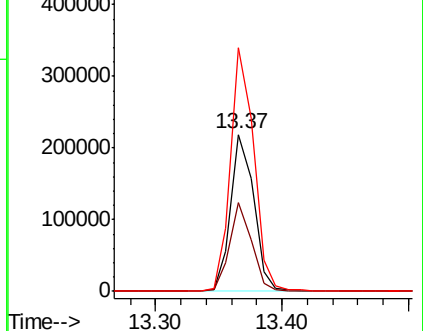
150 155.4 0.0 310.2



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: 121.58 ug/l

RT: 12.42 min Scan# 1239

Delta R.T. 0.07 min

Lab File: VD059891.D

Acq: 23 Aug 2018 16:36

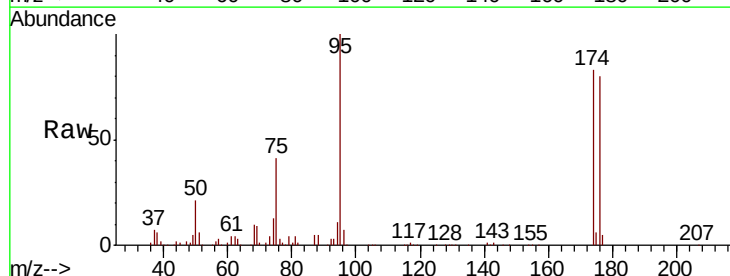
Tgt Ion: 75 Resp: 163606

Ion Ratio Lower Upper

75 100

53 0.0 75.8 113.6#

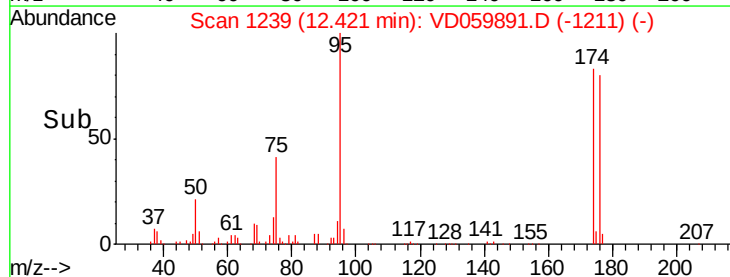
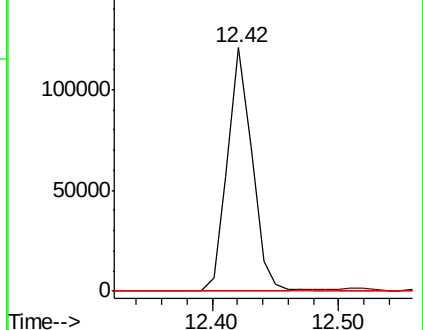
89 0.0 33.6 50.4#

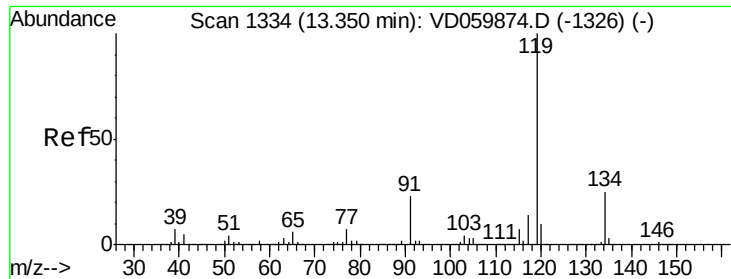


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC





#86
 p-Isopropyltoluene
 Concen: 1.23 ug/l
 RT: 13.34 min Scan# 1332
 Delta R.T. -0.01 min
 Lab File: VD059891.D
 Acq: 23 Aug 2018 16:36

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-SSW-145-052

Tot Ion	Ratio	Lower	Upper
119	100		
134	27.1	12.7	38.1
91	24.6	11.7	35.0

