

Data File : VD059859.D
Acq On : 21 Aug 2018 16:50
Operator : JC/SY
Sample : J4535-05
Misc : 5.01g/5ml/MSVOA_D/SOIL
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-ESW-15-037

Quant Time: Aug 22 01:12:14 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D082018S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 21 04:40:12 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.60	168	895121	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.66	114	1178026	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.66	117	691428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.89	152	171258	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.98	65	364933	50.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.88%	
35) Dibromofluoromethane	5.52	113	477051	54.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.50%	
50) Toluene-d8	8.67	98	1063566	45.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.54%	
62) 4-Bromofluorobenzene	11.91	95	263005	29.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	58.34%	

Target Compounds

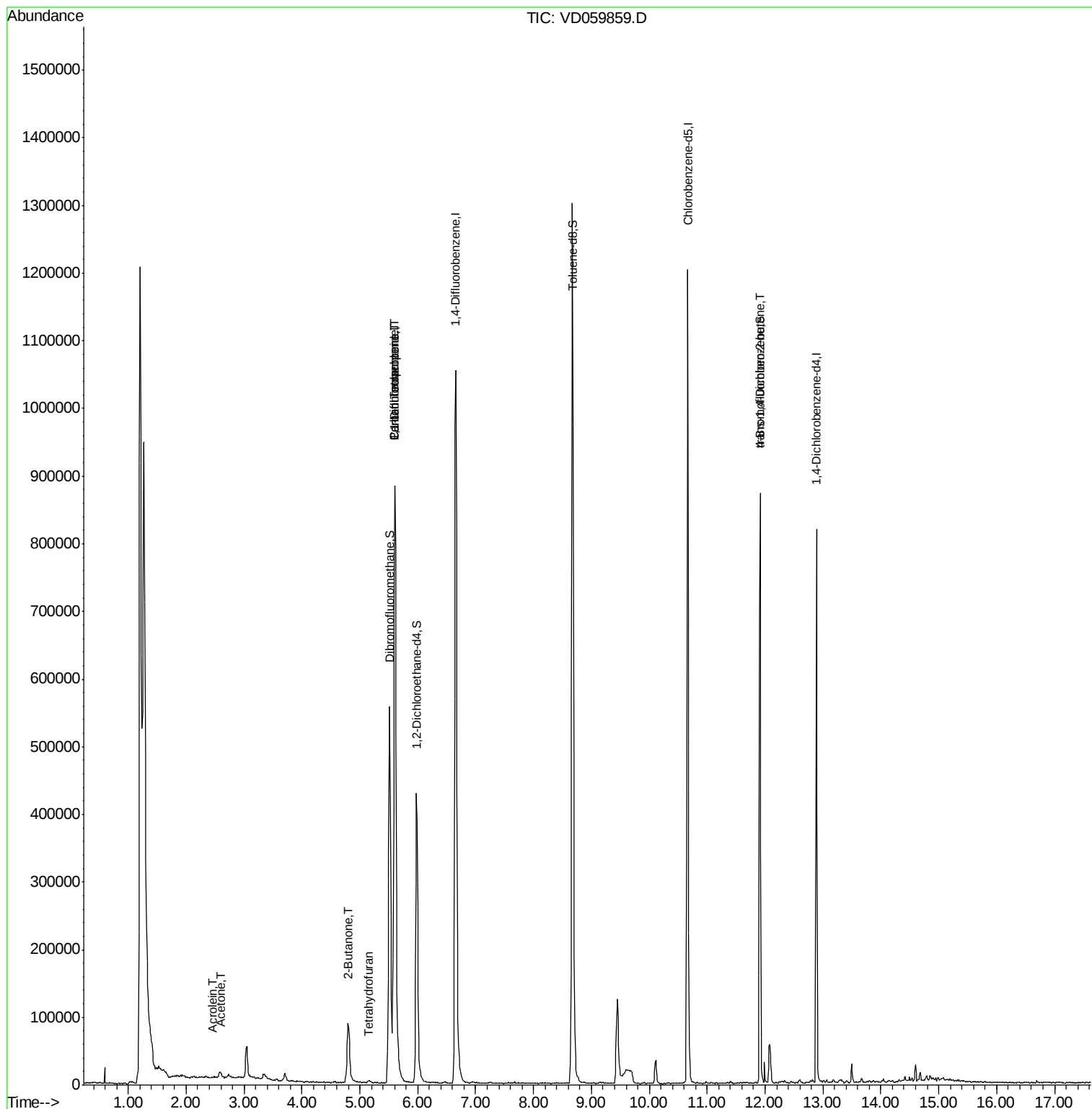
					Qvalue	
13) Acrolein	2.47	56	786	3.958 ug/l #	14	
16) Acetone	2.58	43	17905	14.912 ug/l	97	
18) Methyl Acetate	2.93	43	2647	Below Cal #	65	
20) Methylene Chloride	3.05	84	21885	Below Cal	87	
25) 2-Butanone	4.80	43	19000	5.235 ug/l	93	
29) Tetrahydrofuran	5.14	42	3446	1.875 ug/l #	54	
31) Cyclohexane	5.60	56	18842	Below Cal #	1	
36) 1,1-Dichloropropene	5.60	75	66545	6.661 ug/l #	46	
38) Carbon Tetrachloride	5.60	117	73445	7.366 ug/l #	16	
67) Ethyl Benzene	10.83	91	1386	Below Cal #	43	
80) 1,3,5-Trimethylbenzene	12.30	105	571	Below Cal	74	
81) trans-1,4-Dichloro-2-buten	11.91	75	108580	122.592 ug/l #	10	
82) 4-Chlorotoluene	12.31	91	1179	Below Cal #	48	
89) n-Butylbenzene	13.17	91	611	Below Cal #	86	
91) 1,2-Dichlorobenzene	13.17	146	602	Below Cal	85	

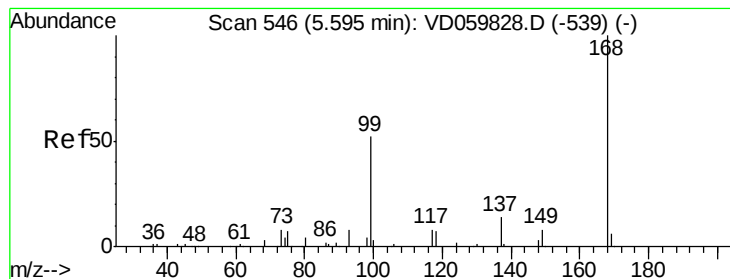
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 547

Delta R.T. 0.01 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

Instrument :

MSVOA_D

ClientSampleId :

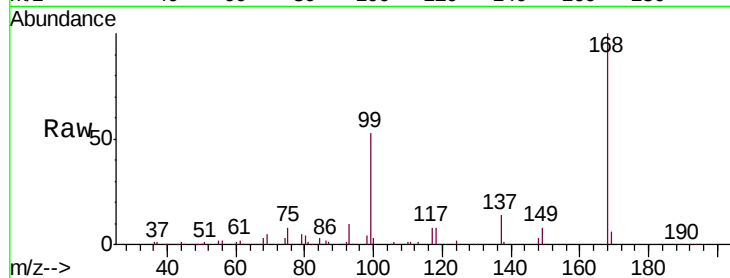
RA-081618-ESW-15-037

Tgt Ion:168 Resp: 895121

Ion Ratio Lower Upper

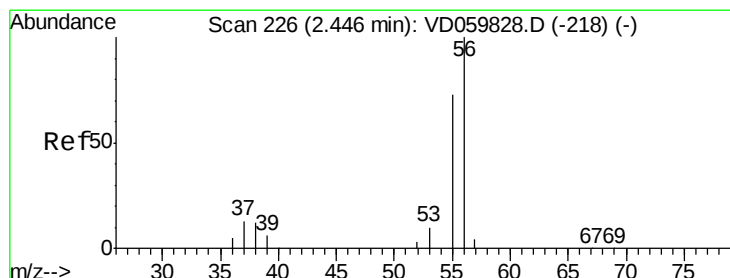
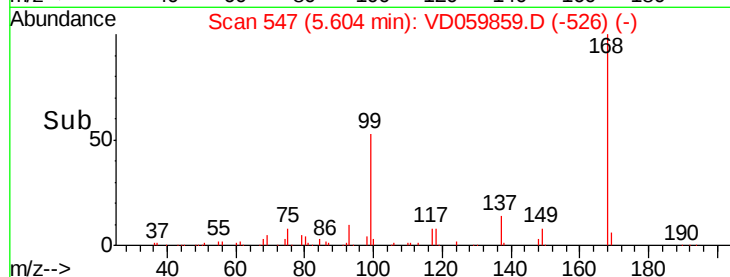
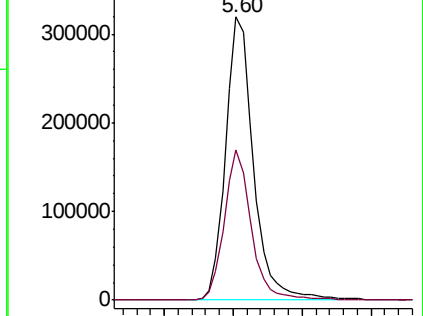
168 100

99 53.2 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#13

Acrolein

Concen: 3.958 ug/l

RT: 2.47 min Scan# 228

Delta R.T. 0.02 min

Lab File: VD059859.D

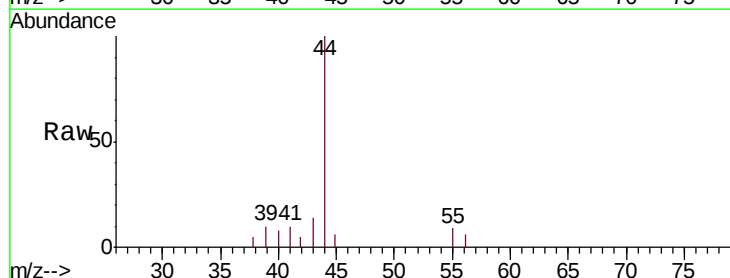
Acq: 21 Aug 2018 16:50

Tgt Ion: 56 Resp: 786

Ion Ratio Lower Upper

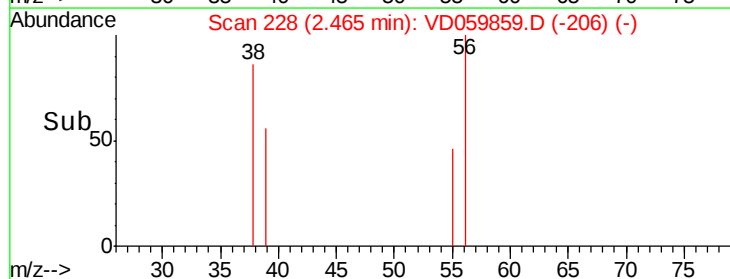
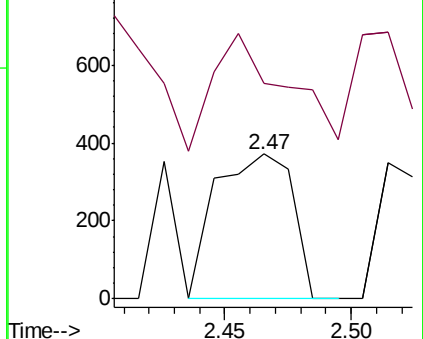
56 100

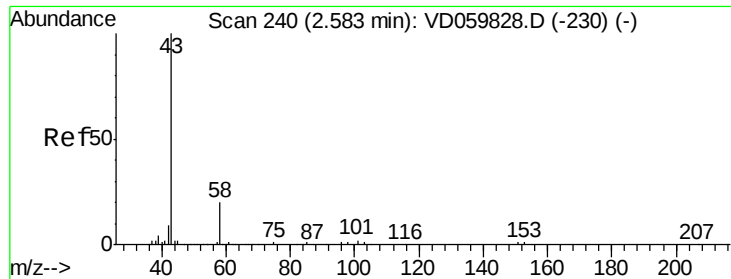
55 149.3 60.4 90.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 14.912 ug/l

RT: 2.58 min Scan# 240

Delta R.T. -0.00 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

Instrument :

MSVOA_D

ClientSampleId :

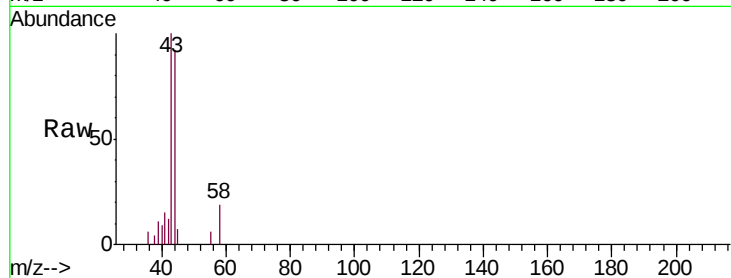
RA-081618-ESW-15-037

Tgt Ion: 43 Resp: 17905

Ion Ratio Lower Upper

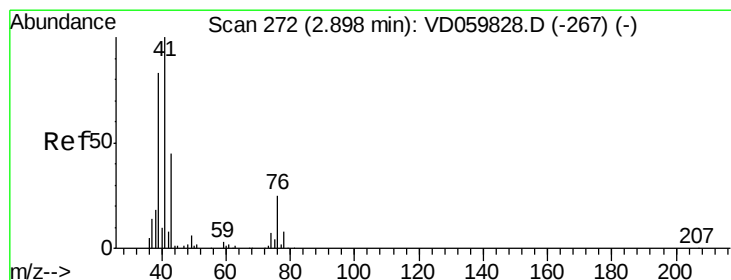
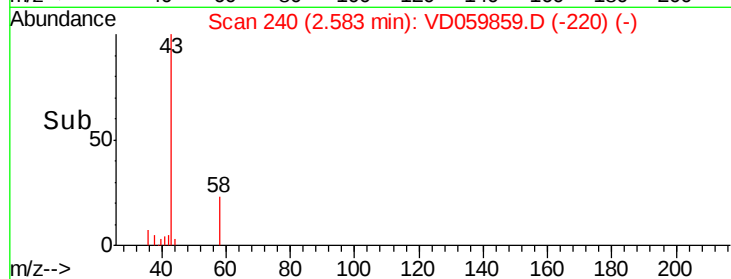
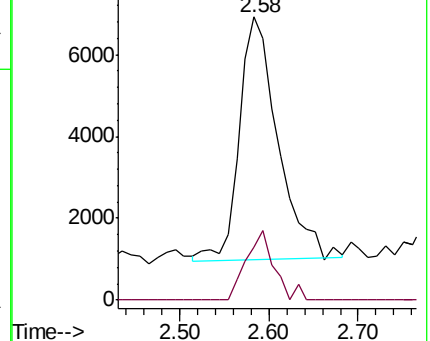
43 100

58 18.9 16.2 24.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: Below Cal

RT: 2.93 min Scan# 275

Delta R.T. 0.03 min

Lab File: VD059859.D

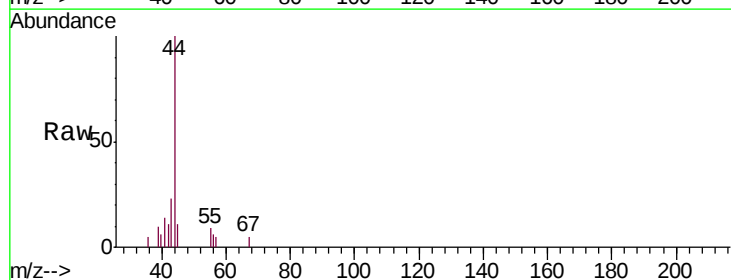
Acq: 21 Aug 2018 16:50

Tgt Ion: 43 Resp: 2647

Ion Ratio Lower Upper

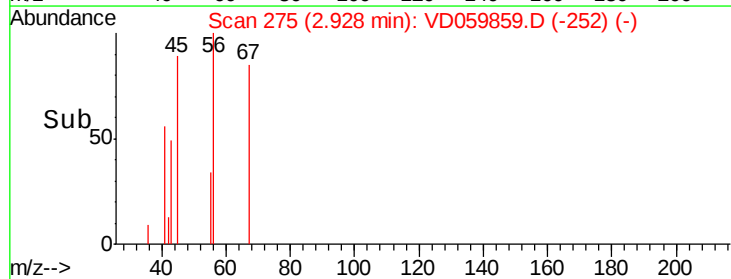
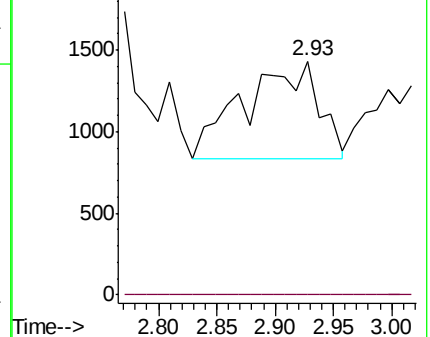
43 100

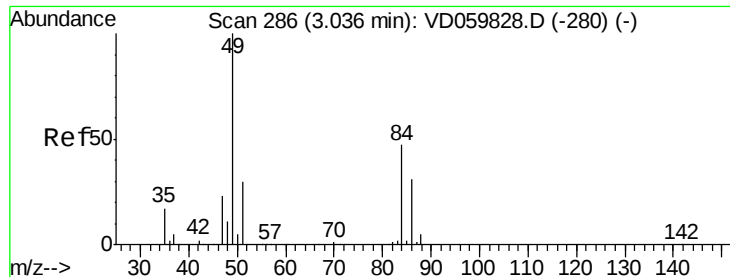
74 0.0 11.4 17.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

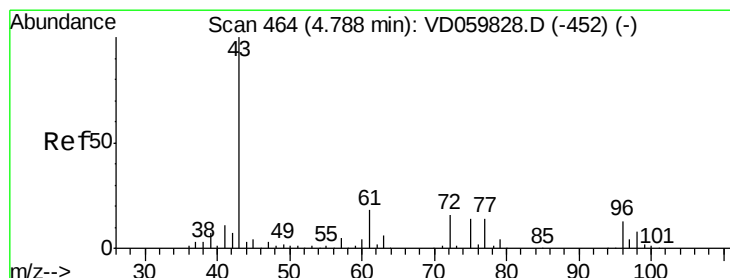
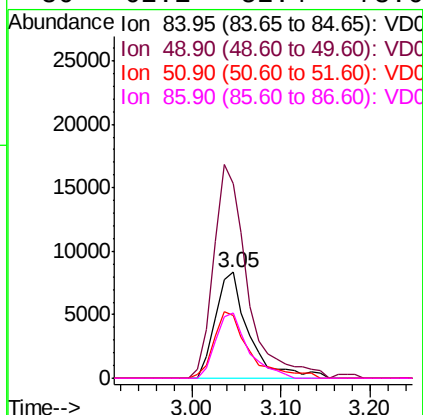
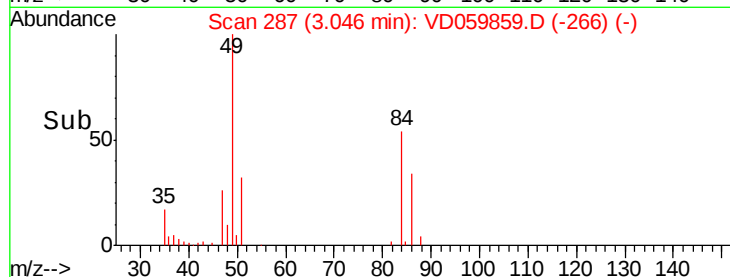
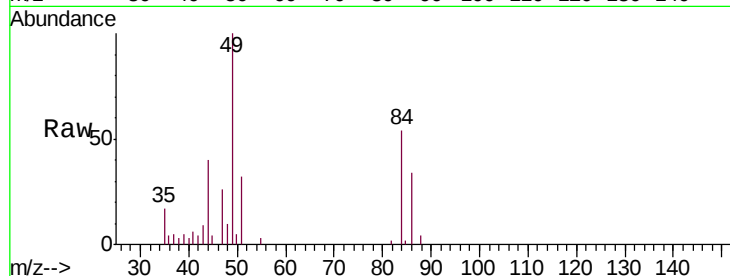




#20
Methylene Chloride
Concen: Below Cal
RT: 3.05 min Scan# 287
Delta R.T. 0.01 min
Lab File: VD059859.D
Acq: 21 Aug 2018 16:50

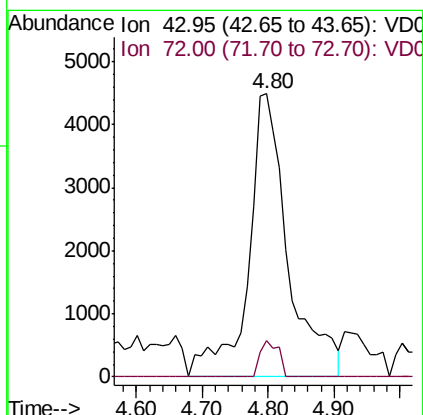
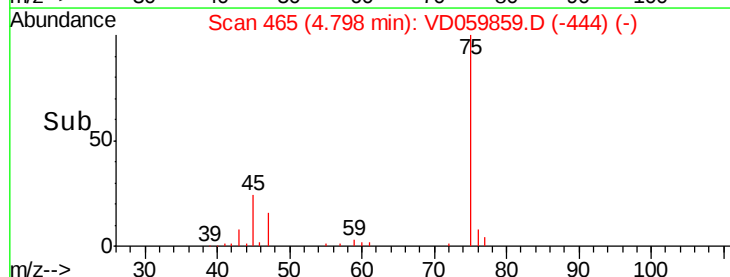
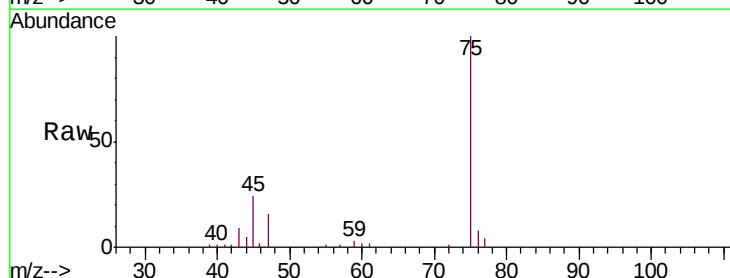
Instrument :
MSVOA_D
ClientSampleId :
RA-081618-ESW-15-037

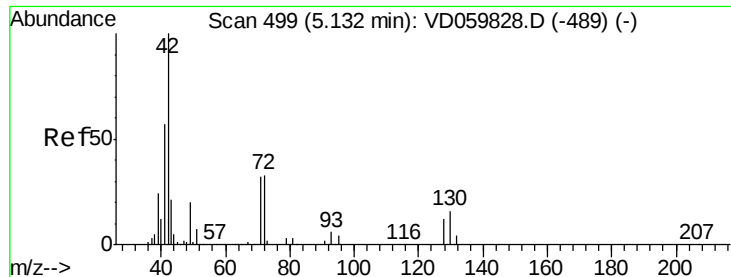
Tgt Ion: 84 Resp: 21885
Ion Ratio Lower Upper
84 100
49 184.5 170.4 255.6
51 59.9 51.4 77.0
86 62.1 52.4 78.6



#25
2-Butanone
Concen: 5.235 ug/l
RT: 4.80 min Scan# 465
Delta R.T. 0.01 min
Lab File: VD059859.D
Acq: 21 Aug 2018 16:50

Tgt Ion: 43 Resp: 19000
Ion Ratio Lower Upper
43 100
72 12.6 12.4 18.6





#29

Tetrahydrofuran

Concen: 1.875 ug/l

RT: 5.14 min Scan# 500

Delta R.T. 0.01 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-ESW-15-037

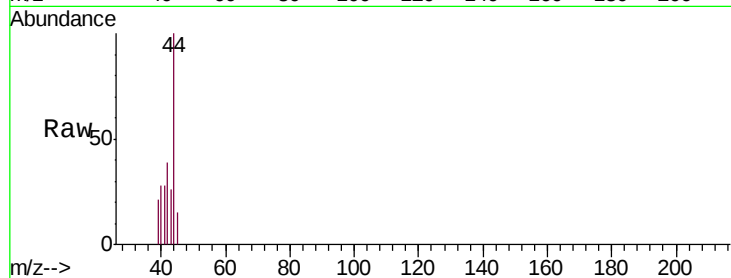
Tgt Ion: 42 Resp: 3446

Ion Ratio Lower Upper

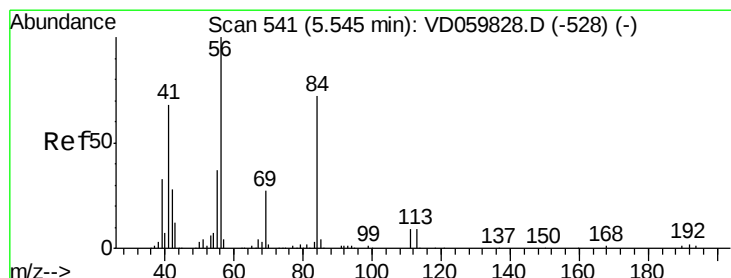
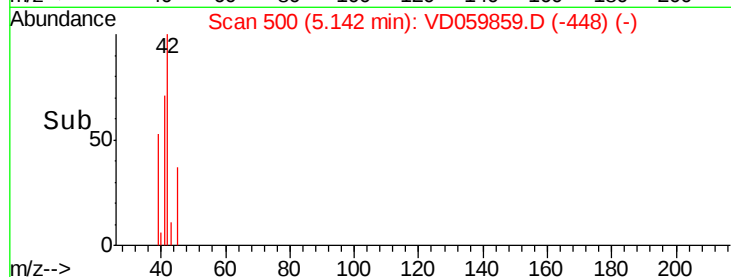
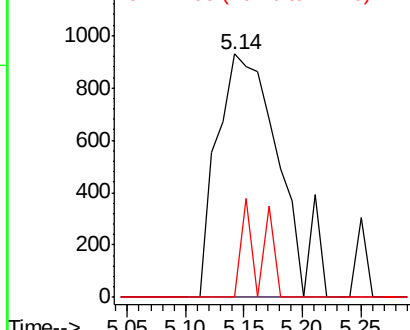
42 100

72 0.0 25.8 38.6#

71 12.5 25.7 38.5#



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: Below Cal

RT: 5.60 min Scan# 547

Delta R.T. 0.06 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

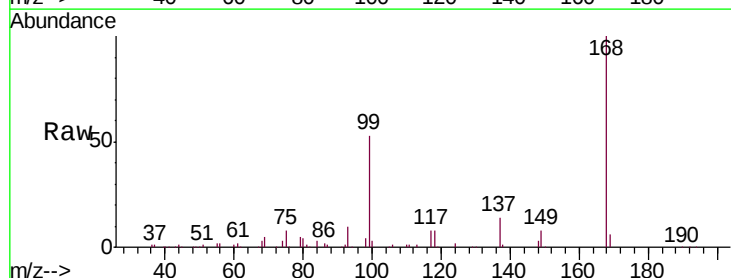
Tgt Ion: 56 Resp: 18842

Ion Ratio Lower Upper

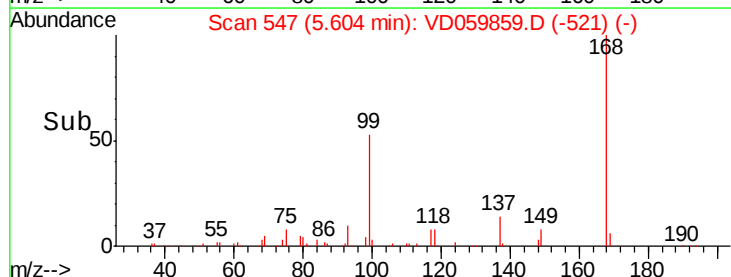
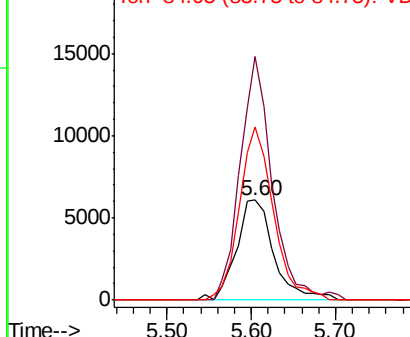
56 100

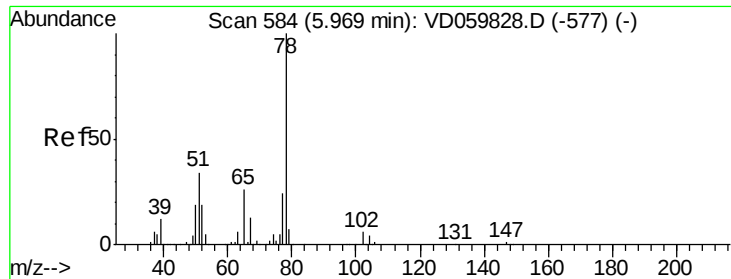
69 243.1 21.7 32.5#

84 172.6 57.8 86.6#



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: Below ug/l

RT: 5.98 min Scan# 585

Delta R.T. 0.01 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

Instrument :

MSVOA_D

ClientSampleId :

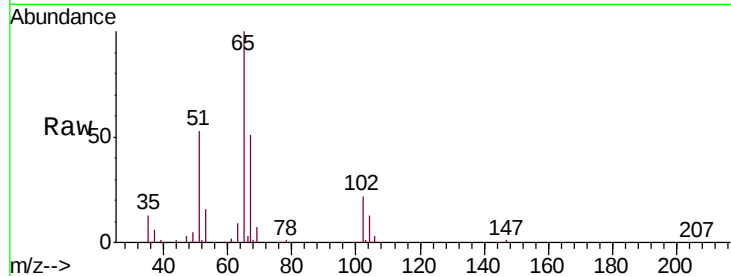
RA-081618-ESW-15-037

Tgt Ion: 65 Resp: 364933

Ion Ratio Lower Upper

65 100

67 51.1 0.0 102.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

150000

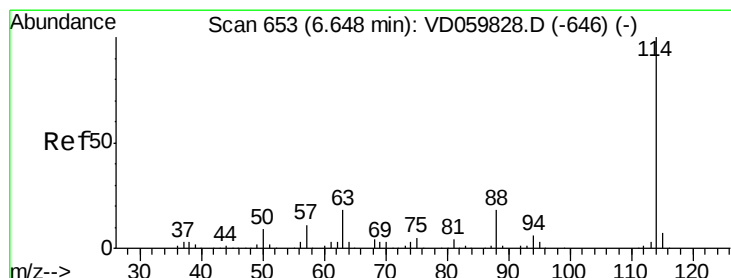
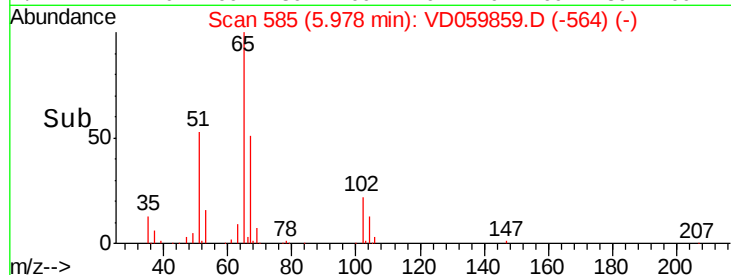
100000

50000

0

5.90 6.00 6.10 6.20

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.66 min Scan# 654

Delta R.T. 0.01 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

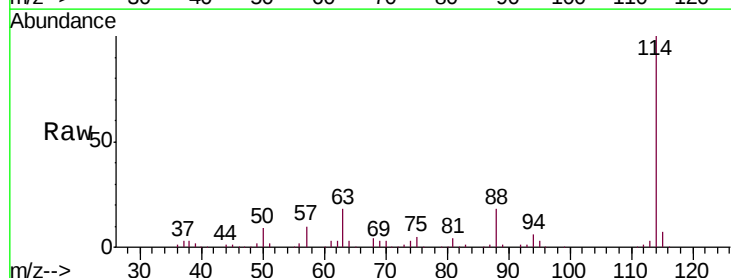
Tgt Ion: 114 Resp: 1178026

Ion Ratio Lower Upper

114 100

63 18.2 0.0 37.0

88 18.3 0.0 37.0



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

600000

500000

400000

300000

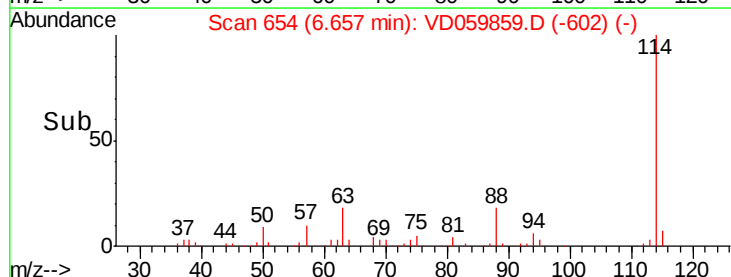
200000

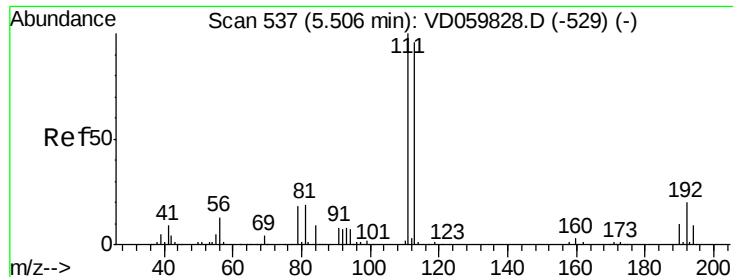
100000

0

6.50 6.60 6.70 6.80 6.90

Time-->

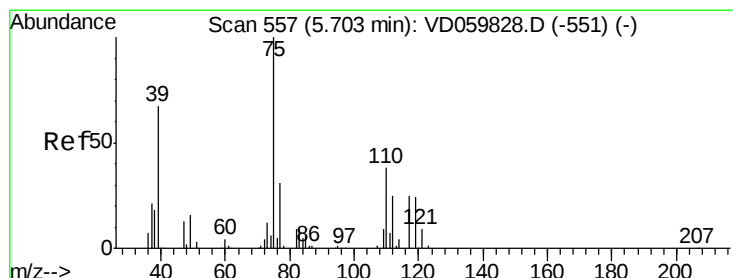
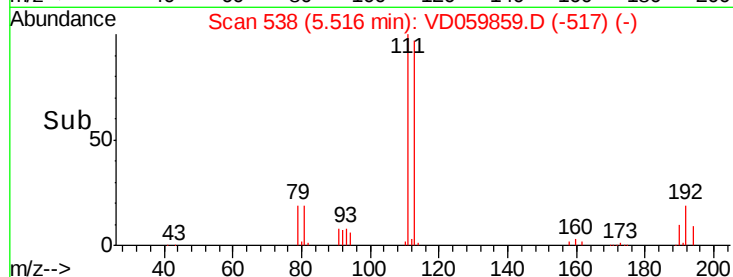
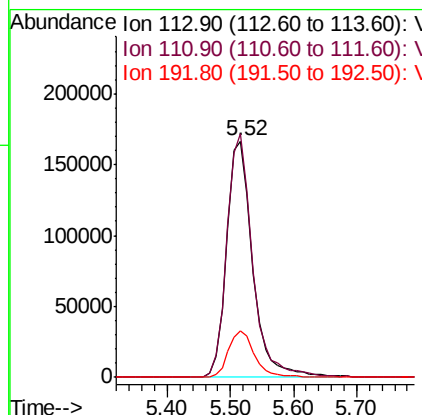
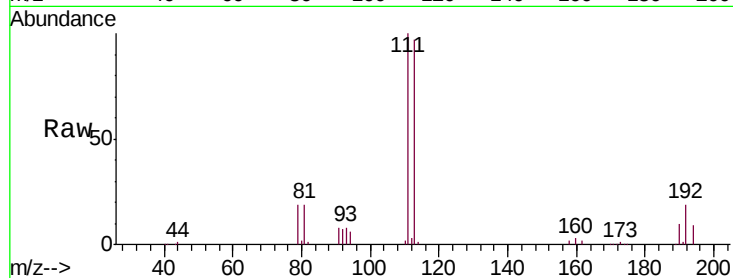




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.52 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: VD059859.D
 Acq: 21 Aug 2018 16:50

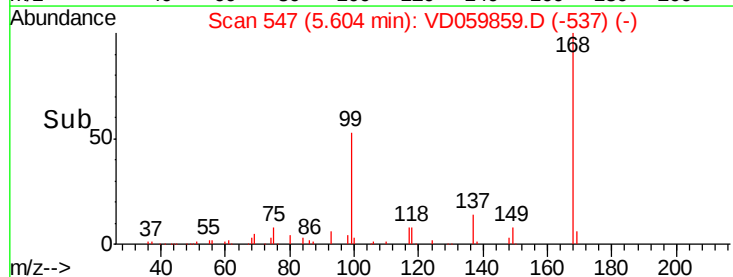
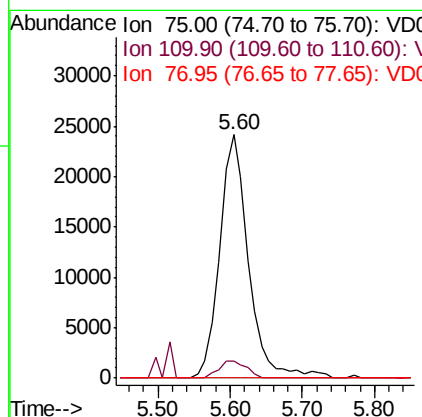
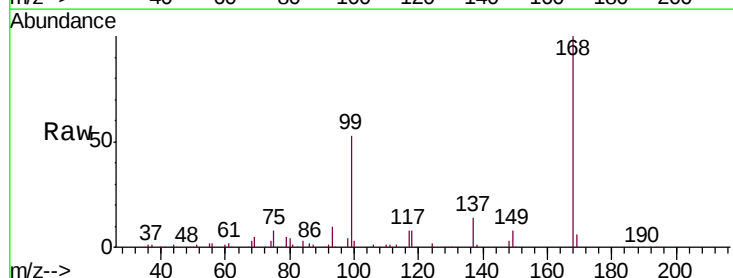
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 MSVOA_D
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 RA-081618-ESW-15-037

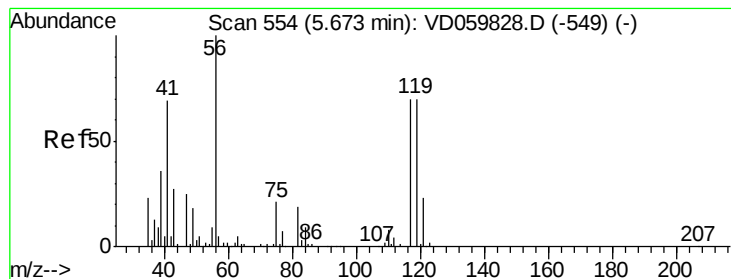
Tgt Ion:113 Resp: 477051
 Ion Ratio Lower Upper
 113 100
 111 103.1 83.3 124.9
 192 19.8 16.8 25.2



#36
 1,1-Dichloropropene
 Concen: 6.661 ug/l
 RT: 5.60 min Scan# 547
 Delta R.T. -0.10 min
 Lab File: VD059859.D
 Acq: 21 Aug 2018 16:50

Tgt Ion: 75 Resp: 66545
 Ion Ratio Lower Upper
 75 100
 110 6.9 18.8 56.4#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 7.366 ug/l

RT: 5.60 min Scan# 547

Delta R.T. -0.07 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-ESW-15-037

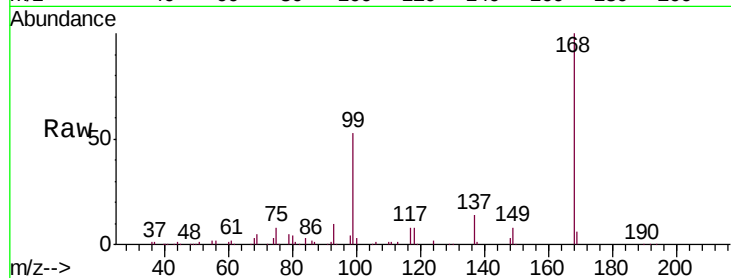
Tgt Ion:117 Resp: 73445

Ion Ratio Lower Upper

117 100

119 5.5 77.0 115.4#

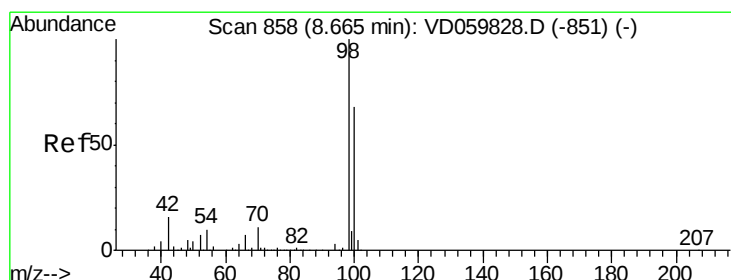
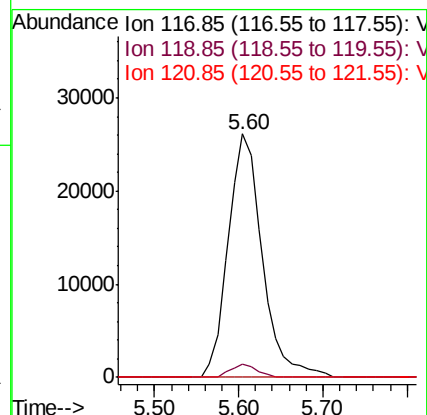
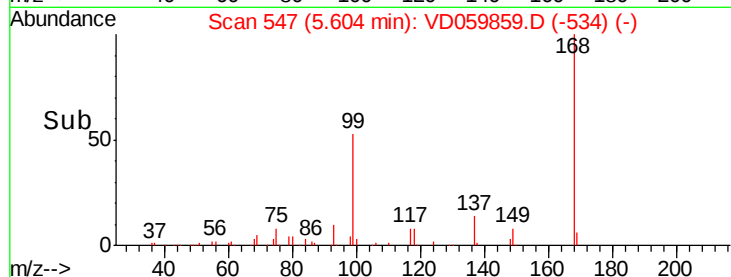
121 0.0 24.7 37.1#



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: 8.67 min Scan# 859

Delta R.T. 0.01 min

Lab File: VD059859.D

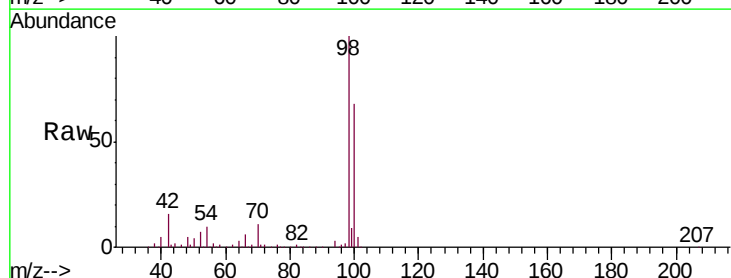
Acq: 21 Aug 2018 16:50

Tgt Ion: 98 Resp: 1063566

Ion Ratio Lower Upper

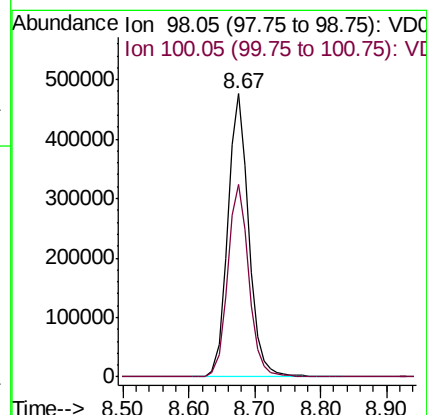
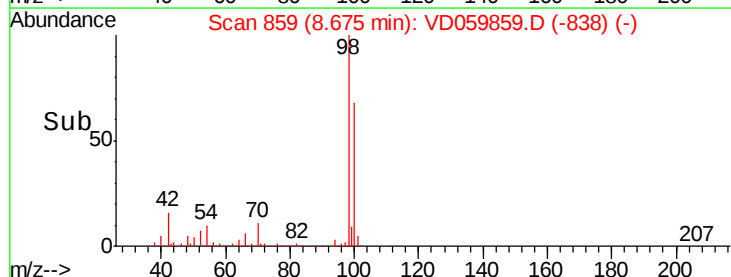
98 100

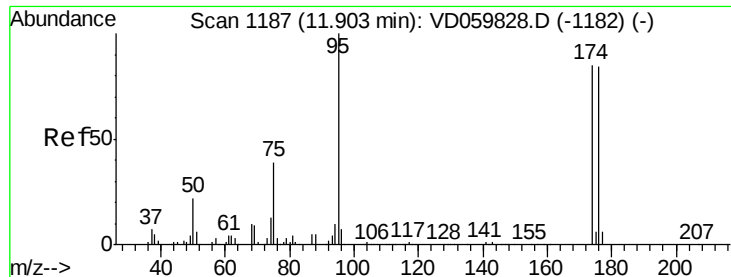
100 68.2 55.0 82.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

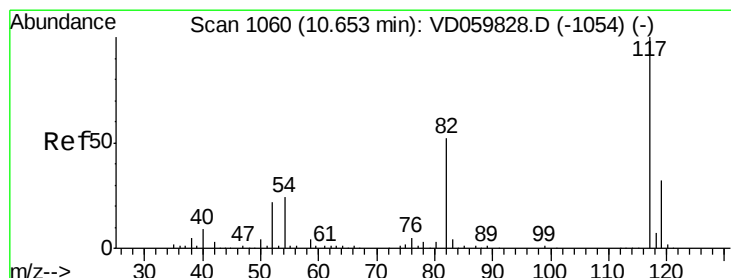
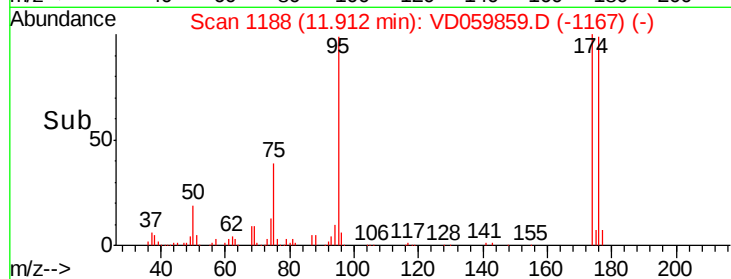
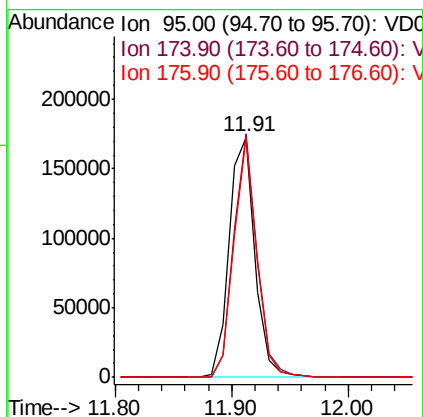
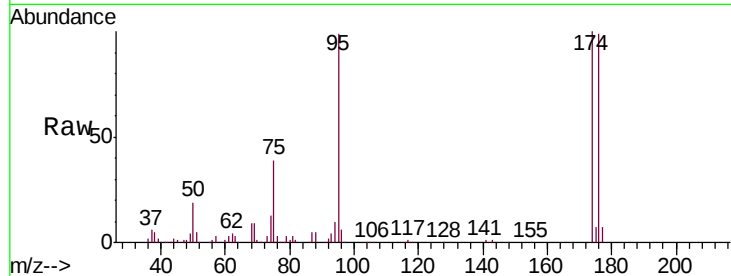




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.91 min Scan# 1188
Delta R.T. 0.01 min
Lab File: VD059859.D
Acq: 21 Aug 2018 16:50

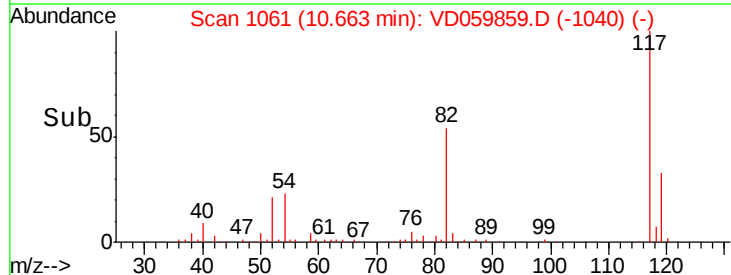
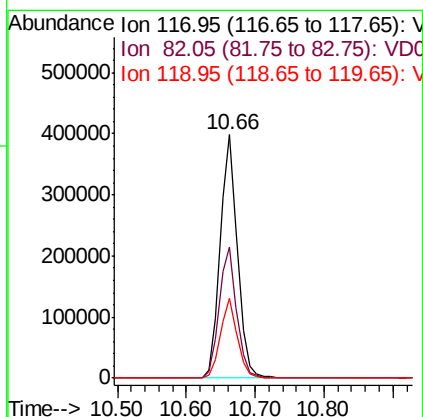
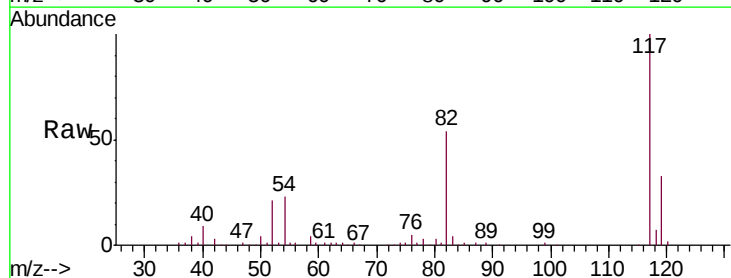
Instrument :
MSVOA_D
ClientSampleId :
RA-081618-ESW-15-037

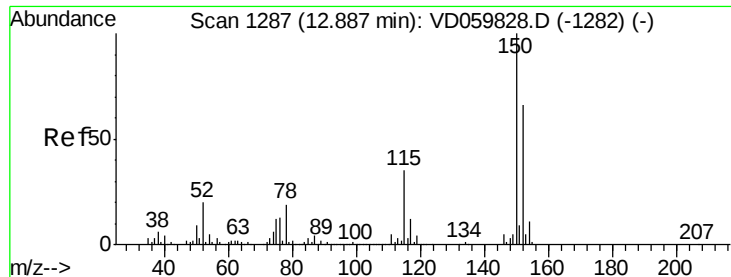
Tgt Ion: 95 Resp: 263005
Ion Ratio Lower Upper
95 100
174 101.4 0.0 169.2
176 100.0 0.0 168.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.66 min Scan# 1061
Delta R.T. 0.01 min
Lab File: VD059859.D
Acq: 21 Aug 2018 16:50

Tgt Ion: 117 Resp: 691428
Ion Ratio Lower Upper
117 100
82 53.6 41.6 62.4
119 33.0 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.89 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-ESW-15-037

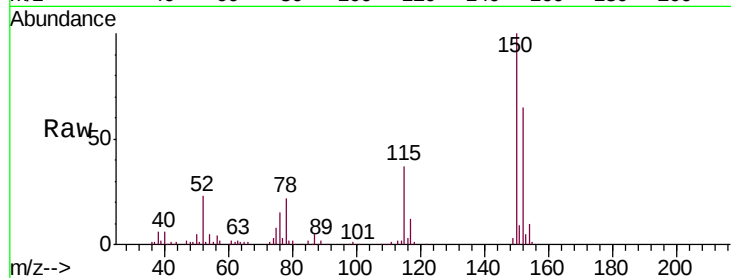
Tgt Ion:152 Resp: 171258

Ion Ratio Lower Upper

152 100

115 57.9 26.9 80.6

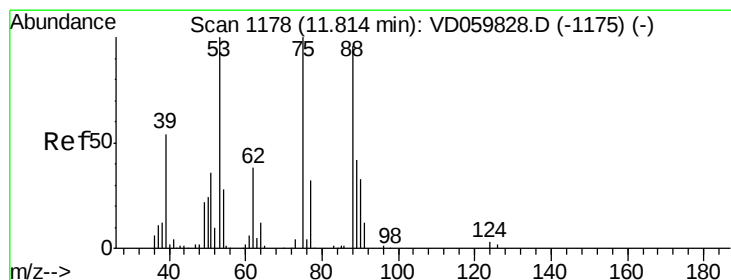
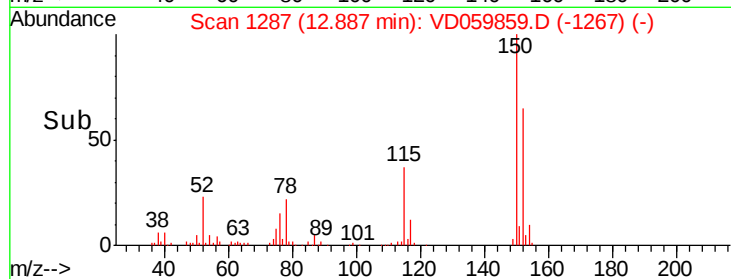
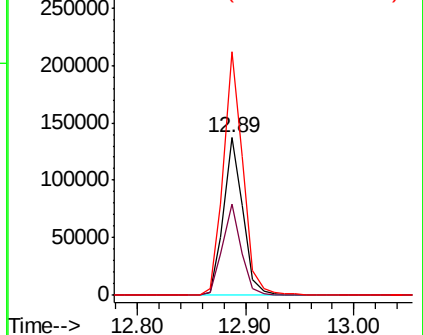
150 154.7 0.0 306.8



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: 122.592 ug/l

RT: 11.91 min Scan# 1188

Delta R.T. 0.10 min

Lab File: VD059859.D

Acq: 21 Aug 2018 16:50

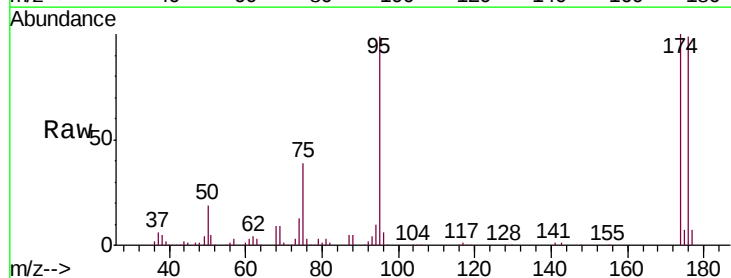
Tgt Ion: 75 Resp: 108580

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

89 0.0 33.9 50.9#



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

