

Data File : VD059869.D
Acq On : 21 Aug 2018 21:34
Operator : JC/SY
Sample : J4559-10
Misc : 5.04g/5ml/MSVOA_D/SOIL
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-042

Quant Time: Aug 22 01:14:40 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	5.61	168	905523	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.66	114	1324339	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.66	117	1014577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.89	152	420377	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.98	65	397976	54.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.82%	
35) Dibromofluoromethane	5.51	113	502851	51.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.66%	
50) Toluene-d8	8.67	98	1290753	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
62) 4-Bromofluorobenzene	11.91	95	443579	43.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.52%	

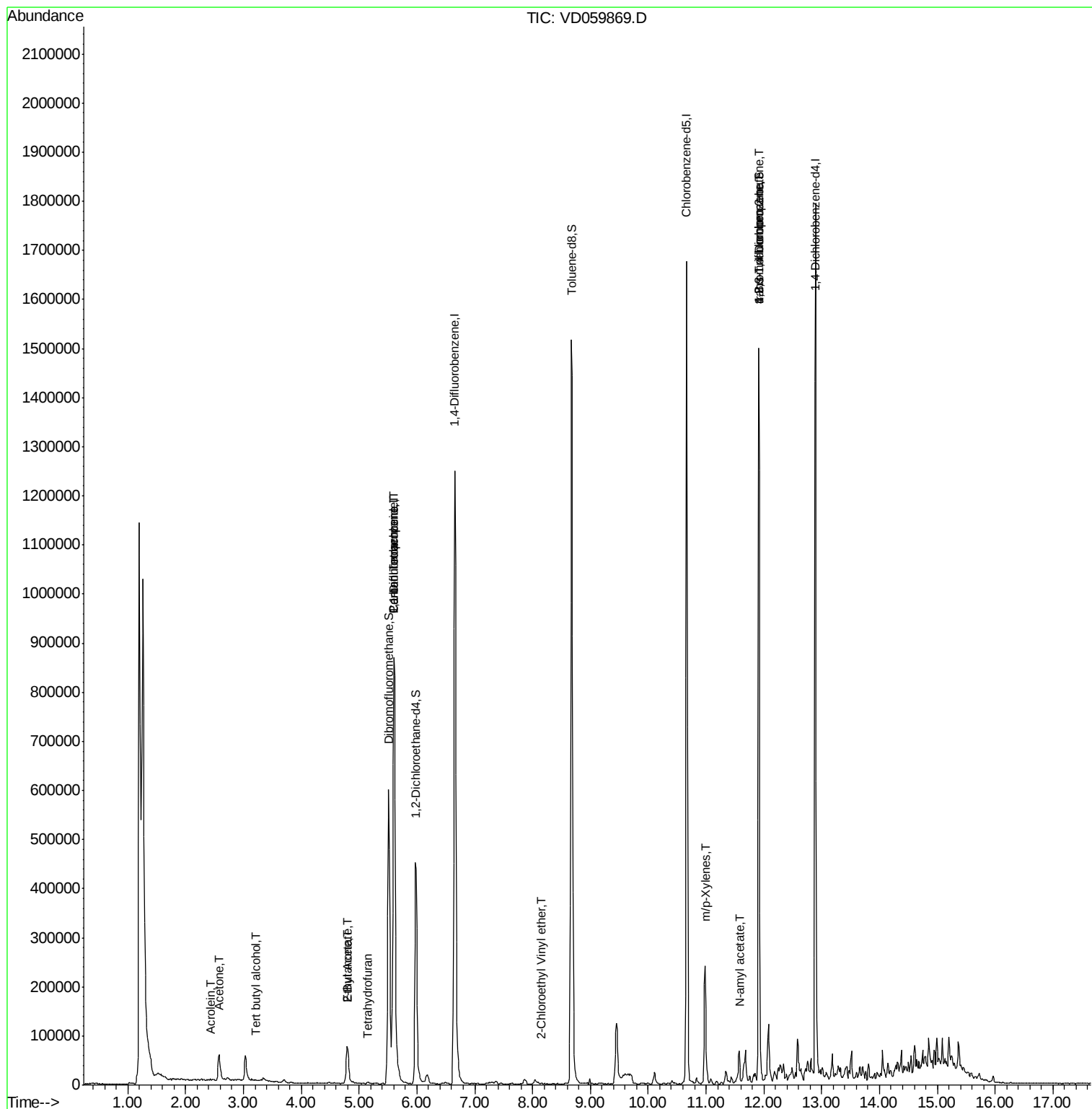
Target Compounds			Qvalue			
11) Tert butyl alcohol	3.21	59	368	1.374 ug/l #	67	
13) Acrolein	2.43	56	413	2.572 ug/l #	35	
16) Acetone	2.58	43	109646	90.268 ug/l	97	
17) Carbon Disulfide	2.73	76	5541	Below Cal #	84	
18) Methyl Acetate	2.90	43	1821	Below Cal #	65	
20) Methylene Chloride	3.03	84	22190	Below Cal	93	
25) 2-Butanone	4.80	43	50903	13.864 ug/l	96	
29) Tetrahydrofuran	5.16	42	2710	1.458 ug/l #	49	
31) Cyclohexane	5.60	56	22156	Below Cal #	1	
36) 1,1-Dichloropropene	5.60	75	62769	5.589 ug/l #	46	
37) Ethyl Acetate	4.80	43	55273	6.639 ug/l #	83	
38) Carbon Tetrachloride	5.60	117	71855	6.410 ug/l #	15	
58) 2-Chloroethyl Vinyl ether	8.16	63	518	9.602 ug/l #	51	
68) m/p-Xylenes	10.98	106	74228	5.915 ug/l	95	
74) N-amyl acetate	11.58	43	13980	1.090 ug/l #	62	
76) 1,2,3-Trichloropropane	11.91	75	139571	20.069 ug/l #	45	
80) 1,3,5-Trimethylbenzene	12.30	105	1315	Below Cal	84	
81) trans-1,4-Dichloro-2-buten	11.91	75	173587	79.844 ug/l #	10	
82) 4-Chlorotoluene	12.30	91	1035	Below Cal #	48	
89) n-Butylbenzene	13.18	91	3122	Below Cal	89	
91) 1,2-Dichlorobenzene	13.18	146	304	Below Cal #	17	

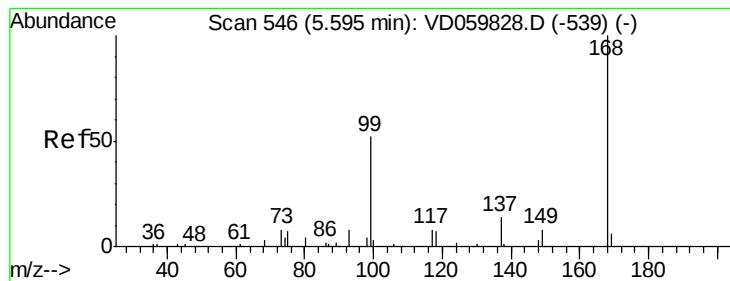
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.02 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Instrument :

MSVOA_D

ClientSampleId :

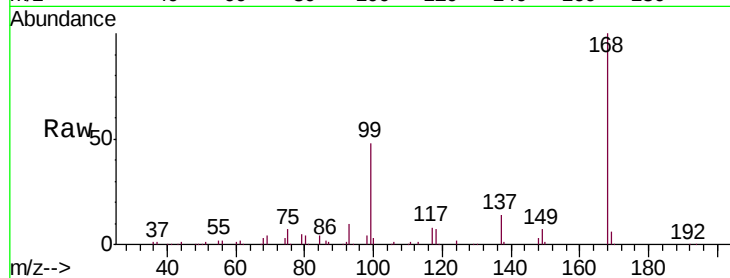
RA-081618-FL-042

Tgt Ion:168 Resp: 905523

Ion Ratio Lower Upper

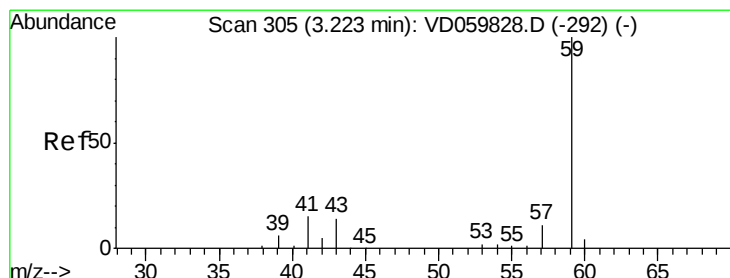
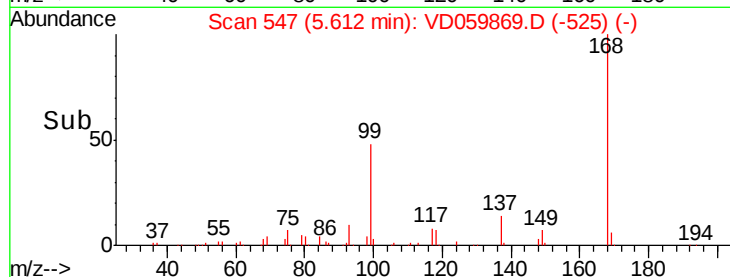
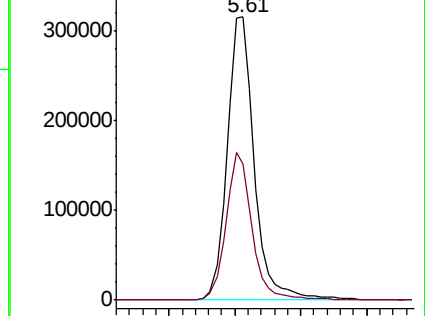
168 100

99 48.3 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#11

Tert butyl alcohol

Concen: 1.374 ug/l

RT: 3.21 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD059869.D

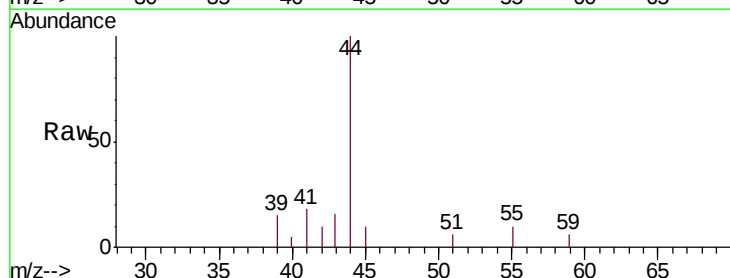
Acq: 21 Aug 2018 21:34

Tgt Ion: 59 Resp: 368

Ion Ratio Lower Upper

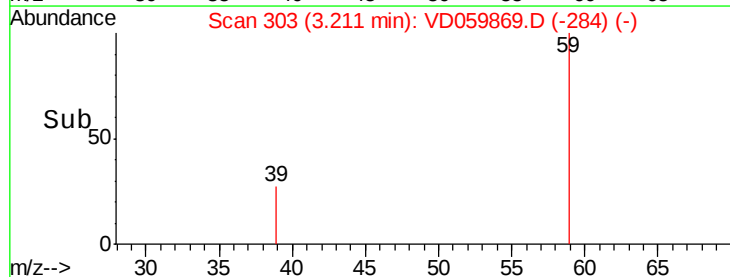
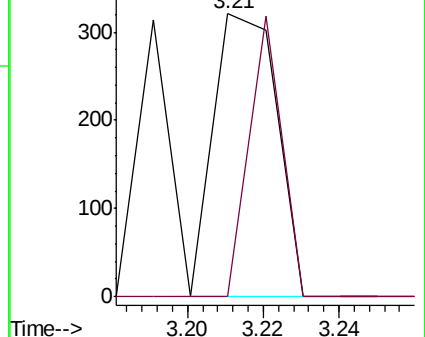
59 100

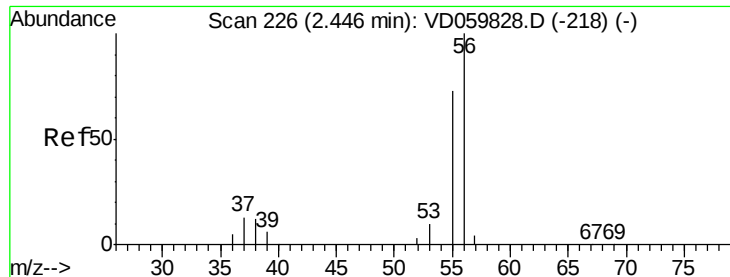
57 0.0 10.3 15.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 2.572 ug/l

RT: 2.43 min Scan# 224

Delta R.T. -0.01 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Instrument :

MSVOA_D

ClientSampleId :

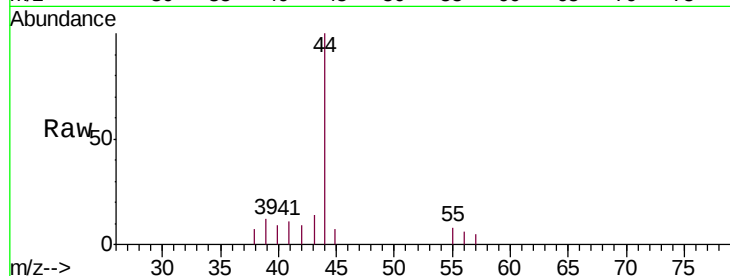
RA-081618-FL-042

Tgt Ion: 56 Resp: 413

Ion Ratio Lower Upper

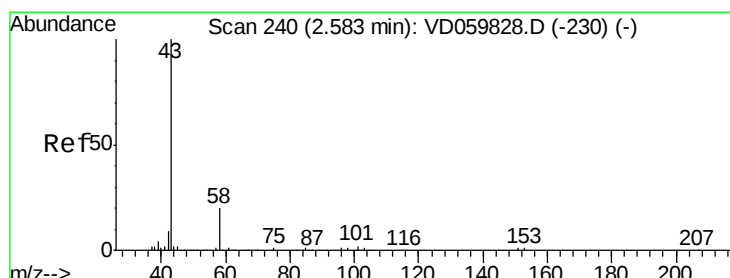
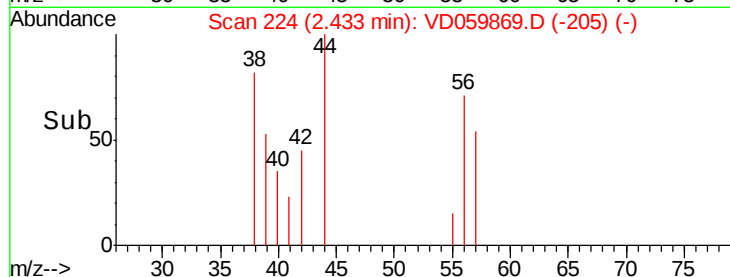
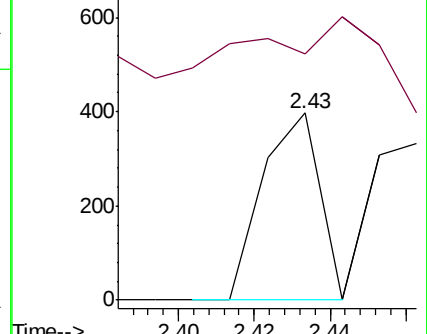
56 100

55 131.5 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: 90.268 ug/l

RT: 2.58 min Scan# 239

Delta R.T. -0.00 min

Lab File: VD059869.D

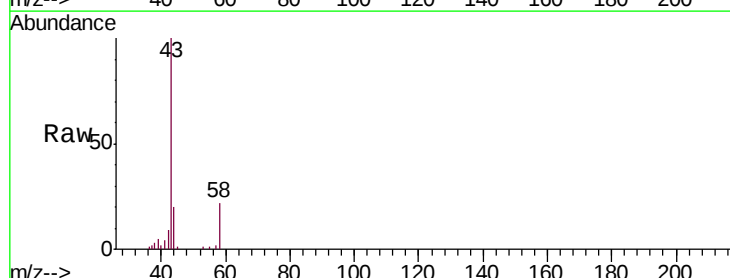
Acq: 21 Aug 2018 21:34

Tgt Ion: 43 Resp: 109646

Ion Ratio Lower Upper

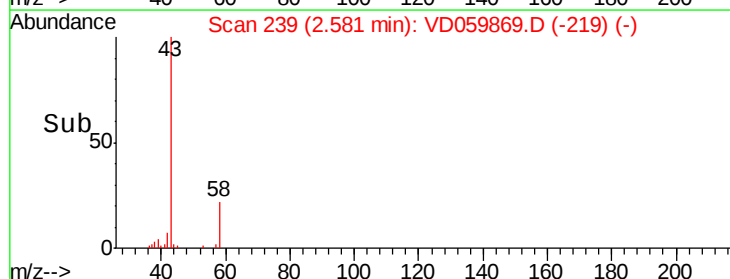
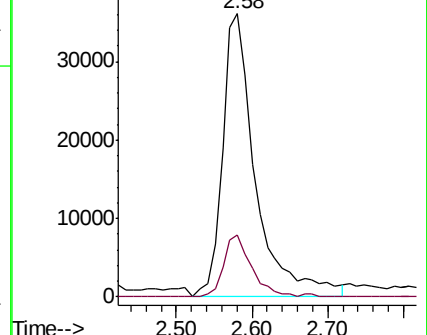
43 100

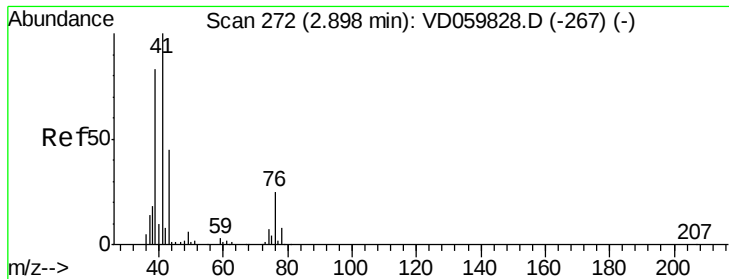
58 21.7 16.2 24.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

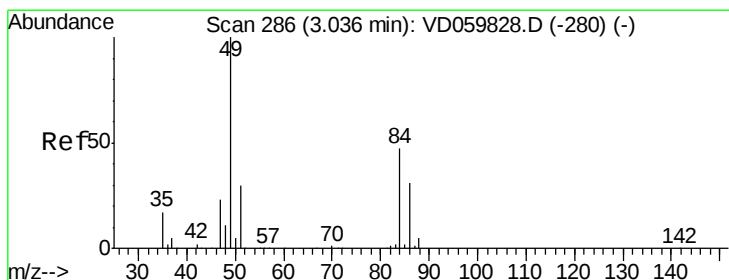
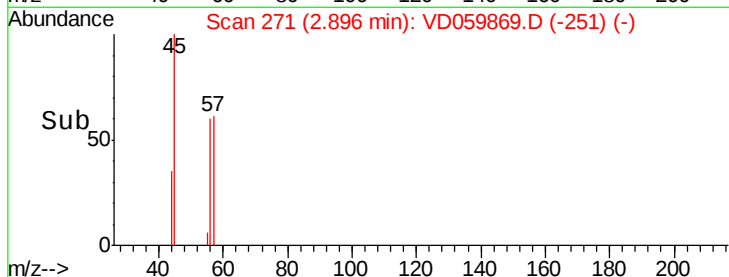
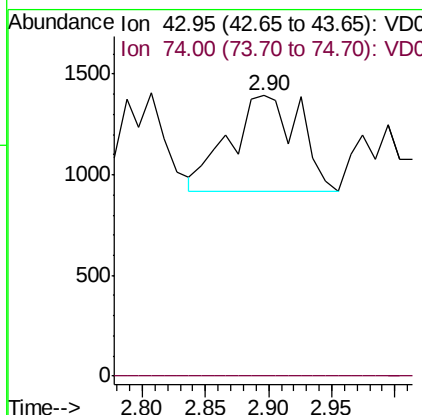
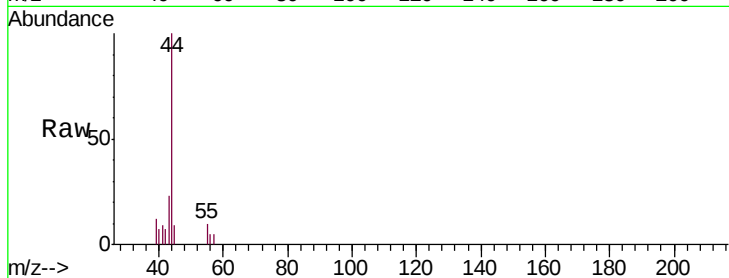




#18
Methyl Acetate
Concen: Below Cal
RT: 2.90 min Scan# 271
Delta R.T. -0.00 min
Lab File: VD059869.D
Acq: 21 Aug 2018 21:34

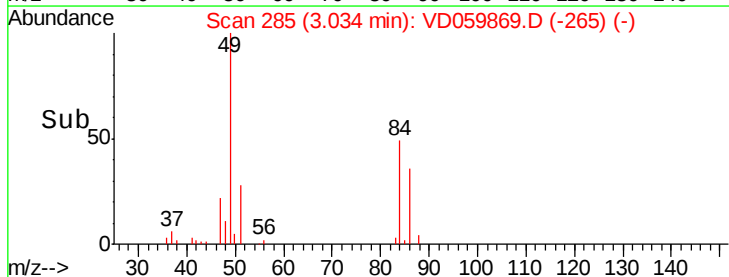
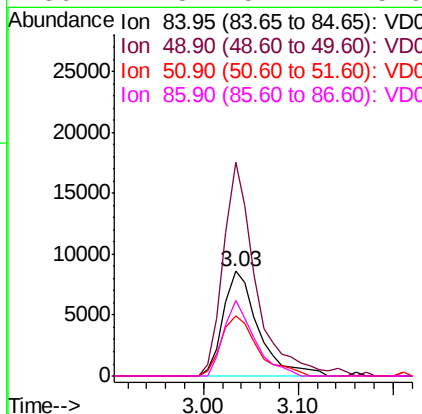
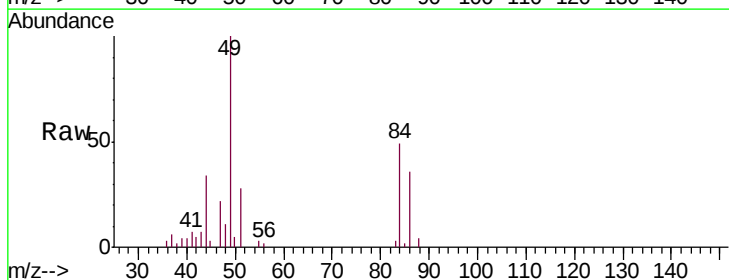
Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-042

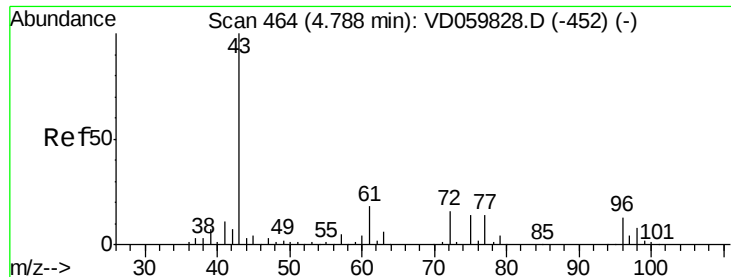
Tgt Ion: 43 Resp: 1821
Ion Ratio Lower Upper
43 100
74 0.0 11.4 17.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.03 min Scan# 285
Delta R.T. -0.00 min
Lab File: VD059869.D
Acq: 21 Aug 2018 21:34

Tgt Ion: 84 Resp: 22190
Ion Ratio Lower Upper
84 100
49 204.0 170.4 255.6
51 57.7 51.4 77.0
86 72.8 52.4 78.6





#25

2-Butanone

Concen: 13.864 ug/l

RT: 4.80 min Scan# 464

Delta R.T. 0.01 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Instrument :

MSVOA_D

ClientSampleId :

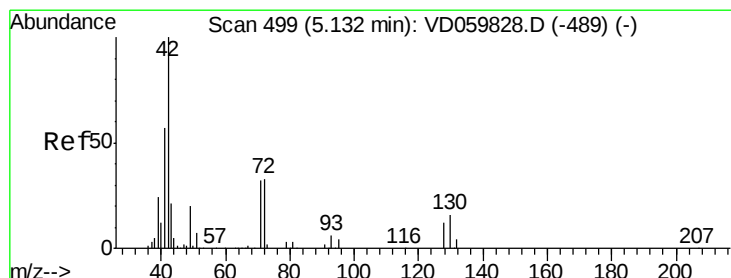
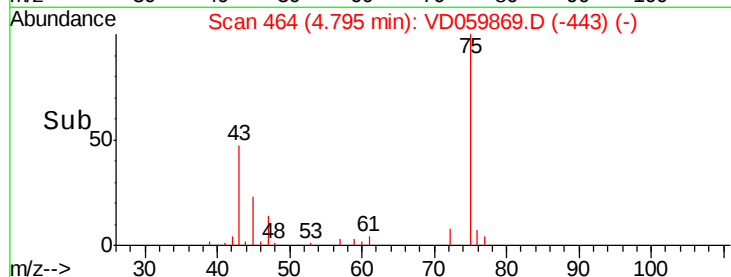
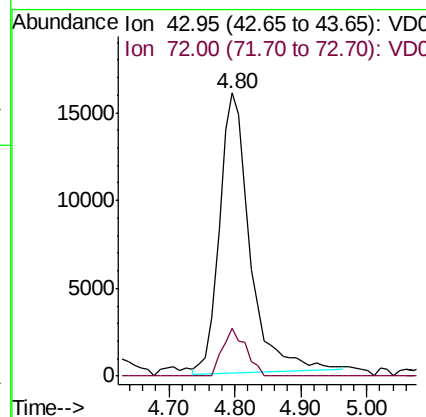
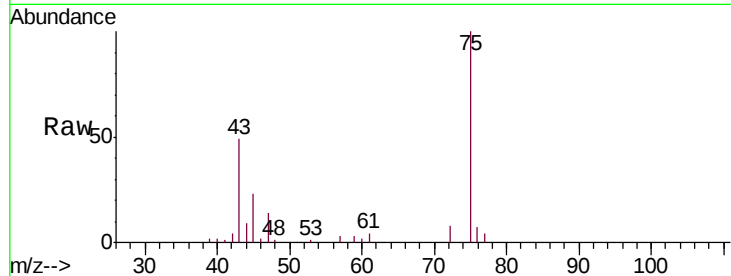
RA-081618-FL-042

Tgt Ion: 43 Resp: 50903

Ion Ratio Lower Upper

43 100

72 17.1 12.4 18.6



#29

Tetrahydrofuran

Concen: 1.458 ug/l

RT: 5.16 min Scan# 501

Delta R.T. 0.03 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

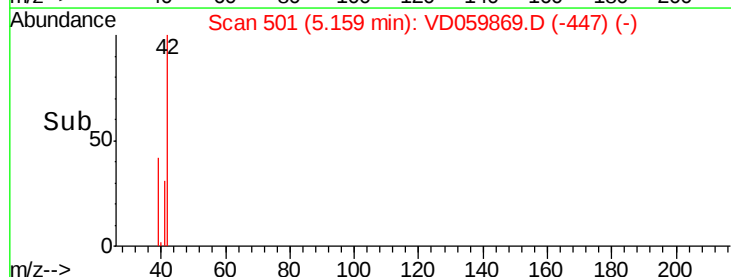
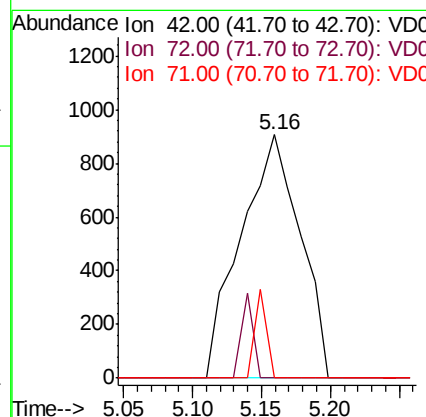
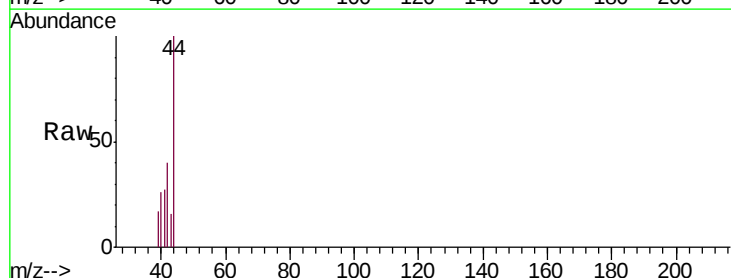
Tgt Ion: 42 Resp: 2710

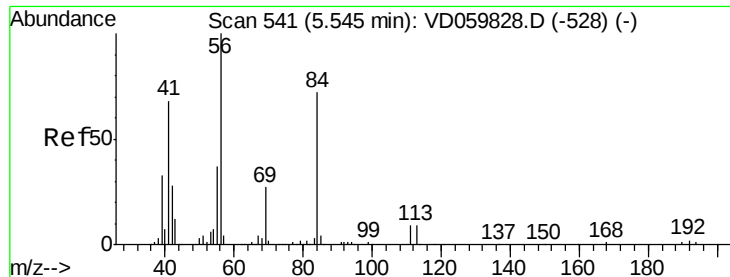
Ion Ratio Lower Upper

42 100

72 0.0 25.8 38.6#

71 7.2 25.7 38.5#

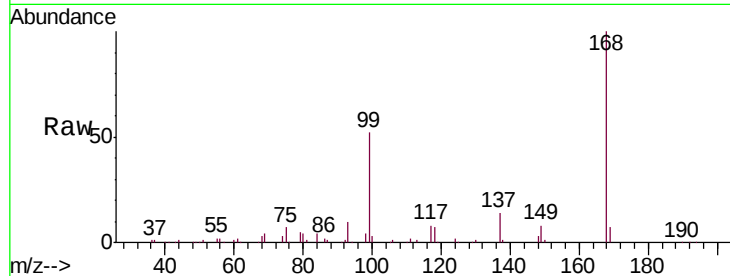




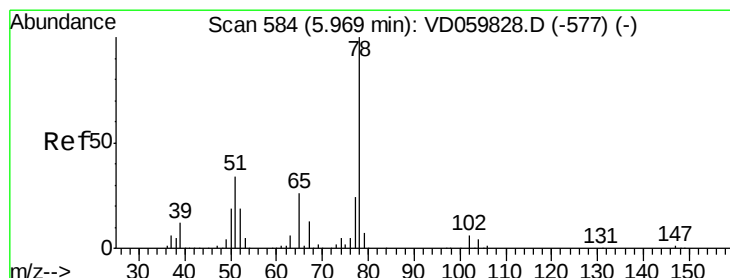
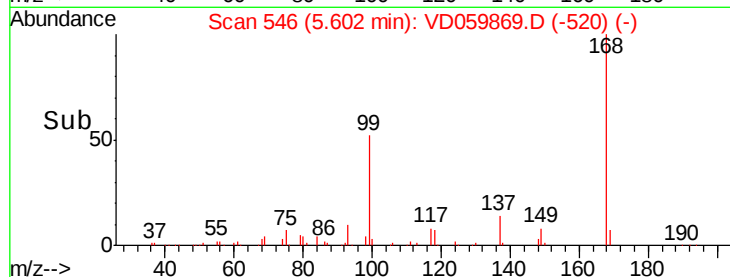
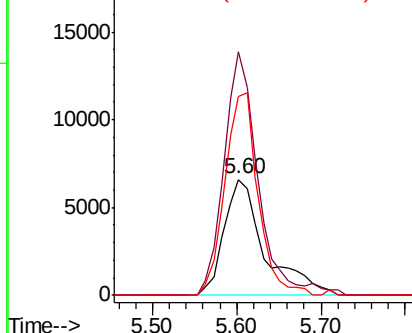
#31
Cyclohexane
Concen: Below Cal
RT: 5.60 min Scan# 546
Delta R.T. 0.06 min
Lab File: VD059869.D
Acq: 21 Aug 2018 21:34

Instrument :
MSVOA_D
ClientSampleId :
RA-081618-FL-042

Tgt Ion: 56 Resp: 22156
Ion Ratio Lower Upper
56 100
69 210.4 21.7 32.5#
84 171.3 57.8 86.6#

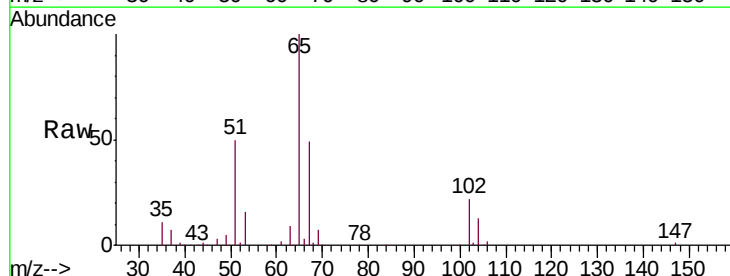


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

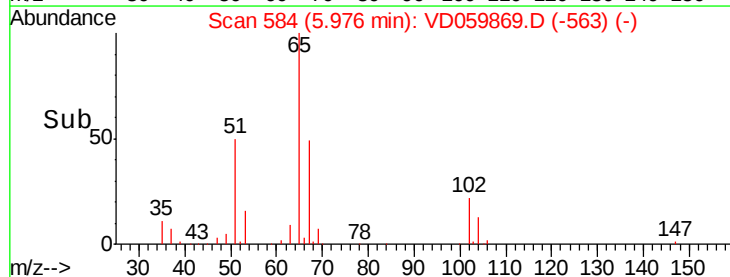
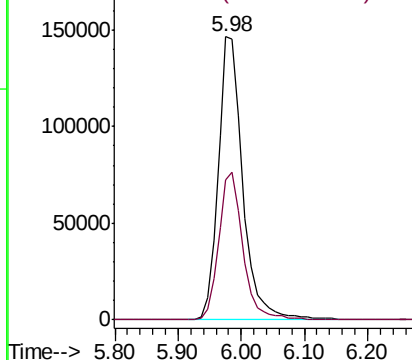


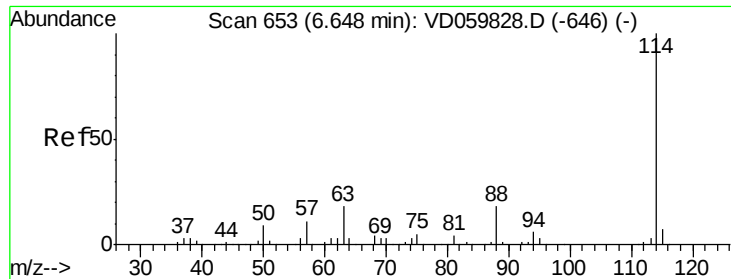
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 5.98 min Scan# 584
Delta R.T. 0.01 min
Lab File: VD059869.D
Acq: 21 Aug 2018 21:34

Tgt Ion: 65 Resp: 397976
Ion Ratio Lower Upper
65 100
67 49.4 0.0 102.4



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

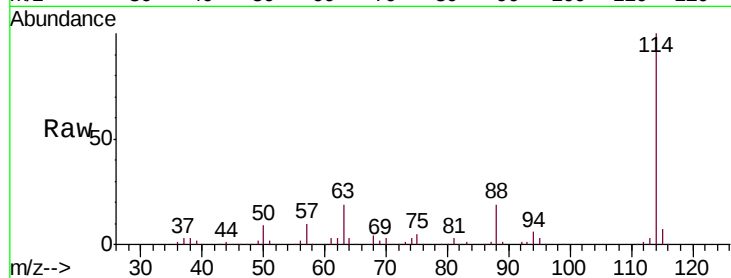




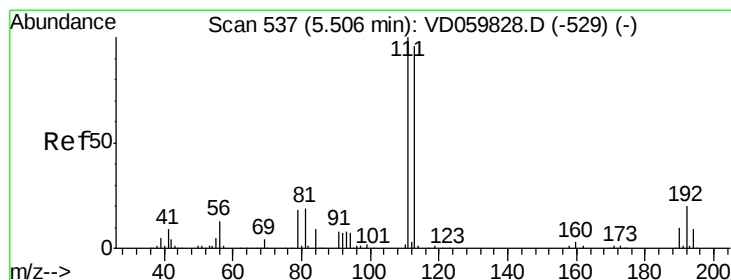
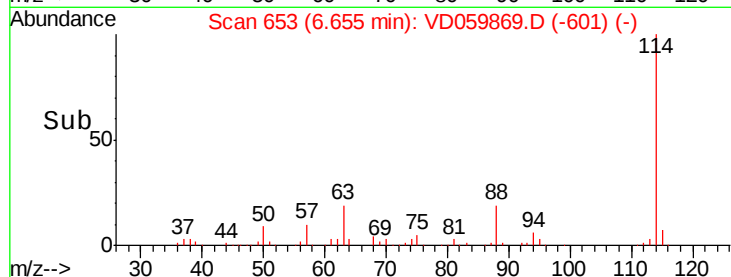
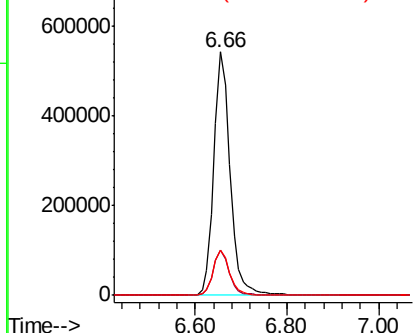
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.66 min Scan# 653
 Delta R.T. 0.01 min
 Lab File: VD059869.D
 Acq: 21 Aug 2018 21:34

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081618-FL-042

Tgt Ion:114 Resp: 1324339
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 37.0
 88 18.8 0.0 37.0

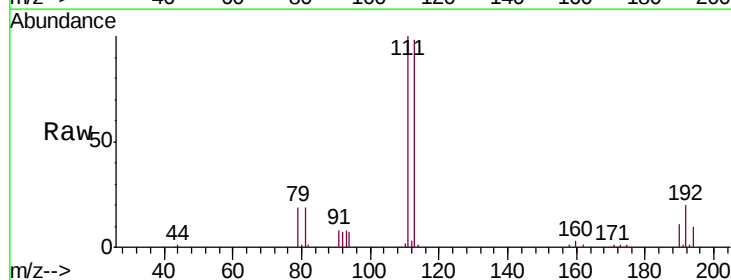


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

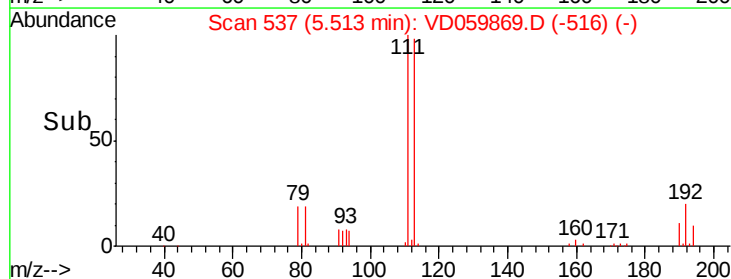
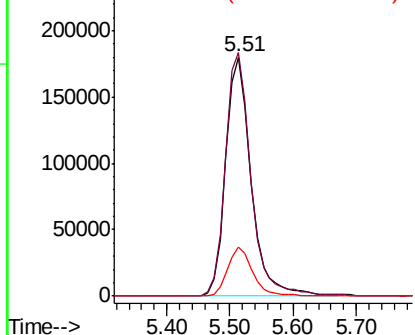


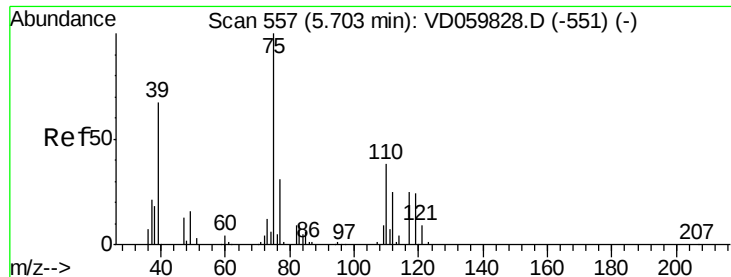
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.51 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VD059869.D
 Acq: 21 Aug 2018 21:34

Tgt Ion:113 Resp: 502851
 Ion Ratio Lower Upper
 113 100
 111 102.0 83.3 124.9
 192 20.8 16.8 25.2



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: 5.589 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.10 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-042

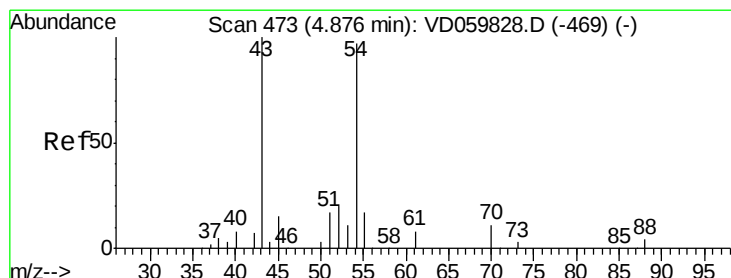
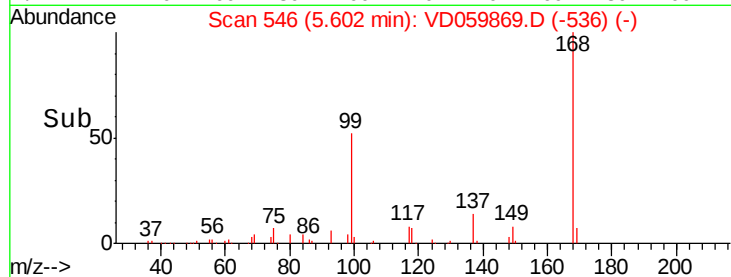
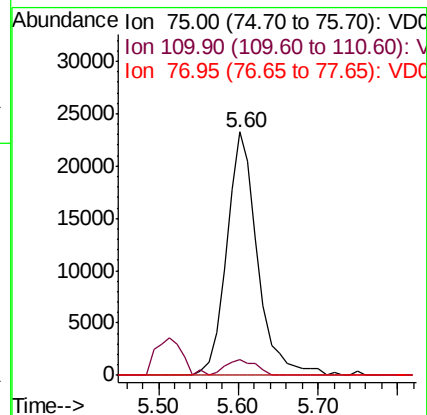
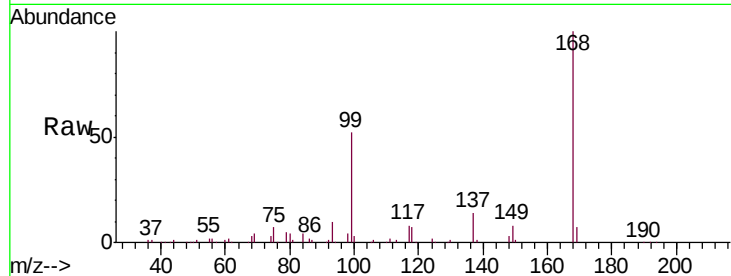
Tgt Ion: 75 Resp: 62769

Ion Ratio Lower Upper

75 100

110 6.3 18.8 56.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 6.639 ug/l

RT: 4.80 min Scan# 464

Delta R.T. -0.08 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

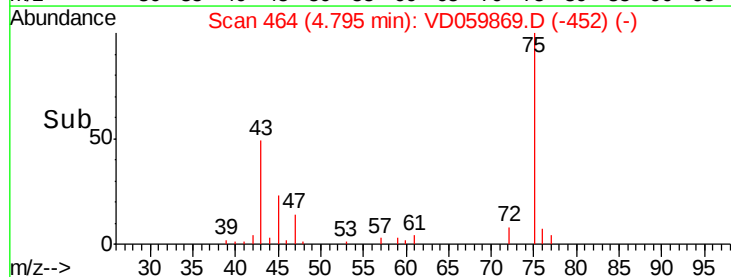
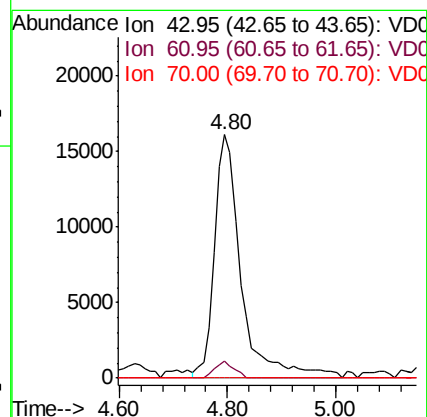
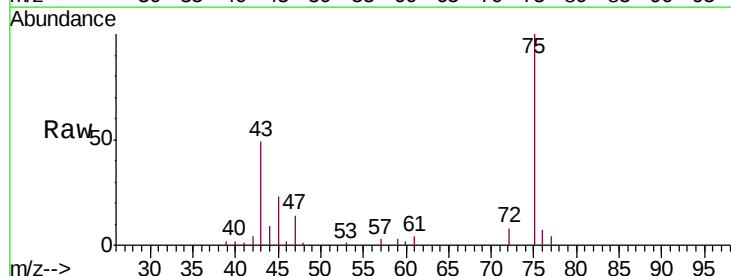
Tgt Ion: 43 Resp: 55273

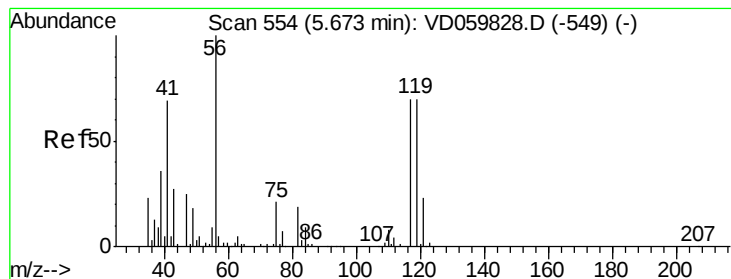
Ion Ratio Lower Upper

43 100

61 7.2 10.4 15.6#

70 0.0 6.2 9.2#





#38

Carbon Tetrachloride

Concen: 6.410 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.07 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-042

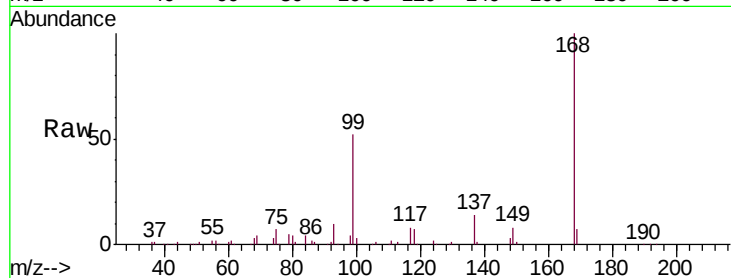
Tgt Ion:117 Resp: 71855

Ion Ratio Lower Upper

117 100

119 4.6 77.0 115.4#

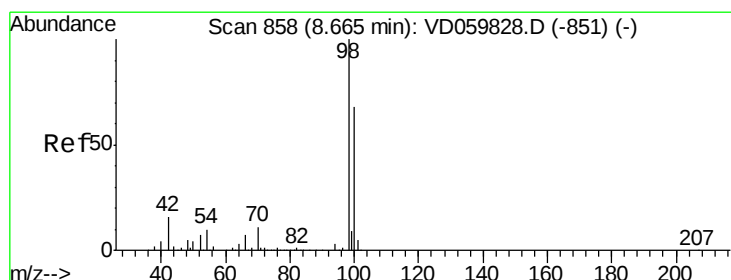
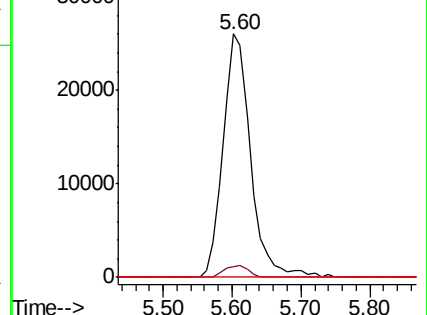
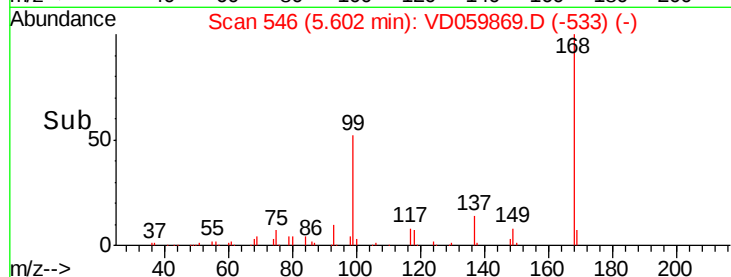
121 0.0 24.7 37.1#



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# 858

Delta R.T. 0.01 min

Lab File: VD059869.D

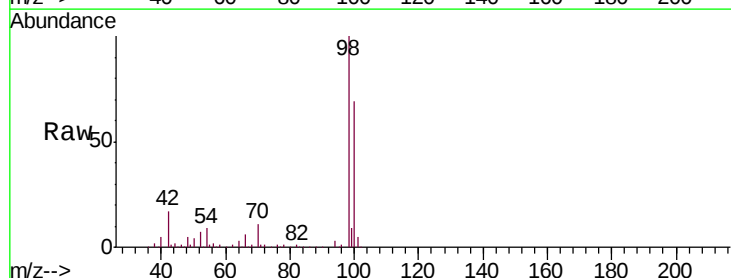
Acq: 21 Aug 2018 21:34

Tgt Ion: 98 Resp: 1290753

Ion Ratio Lower Upper

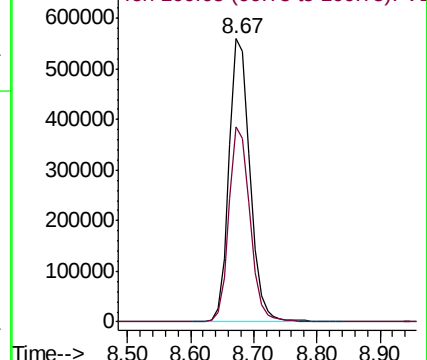
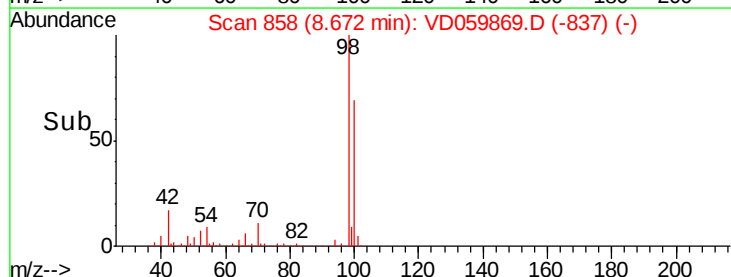
98 100

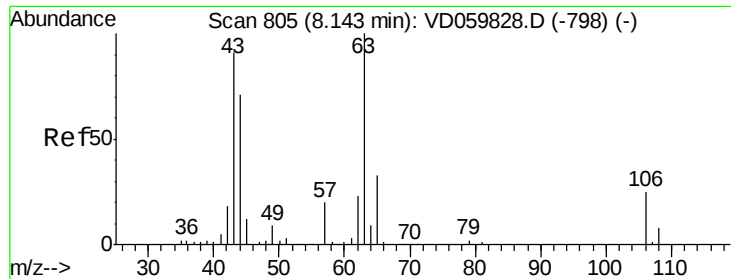
100 68.8 55.0 82.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

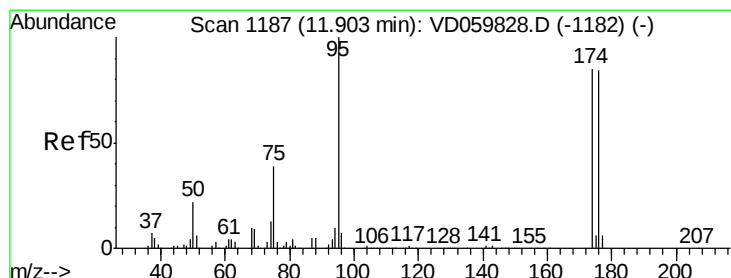
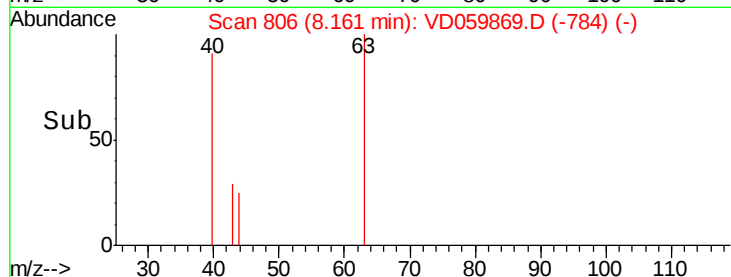
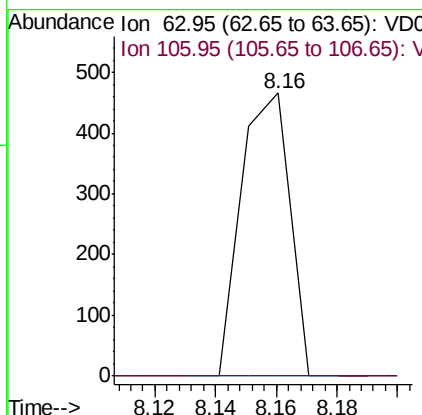
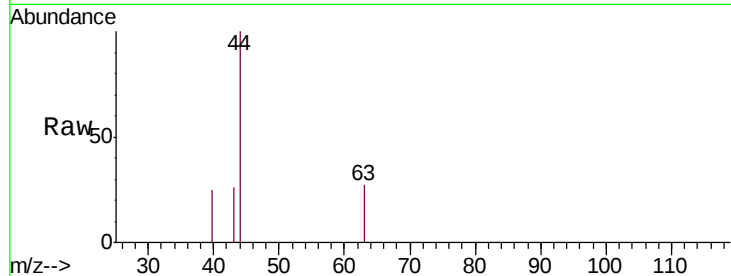




#58
 2-Chloroethyl Vinyl ether
 Concen: 9.602 ug/l
 RT: 8.16 min Scan# 806
 Delta R.T. 0.02 min
 Lab File: VD059869.D
 Acq: 21 Aug 2018 21:34

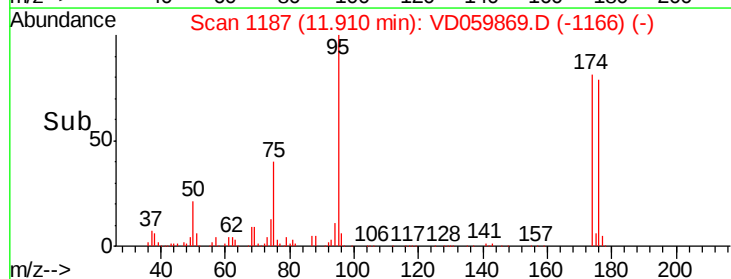
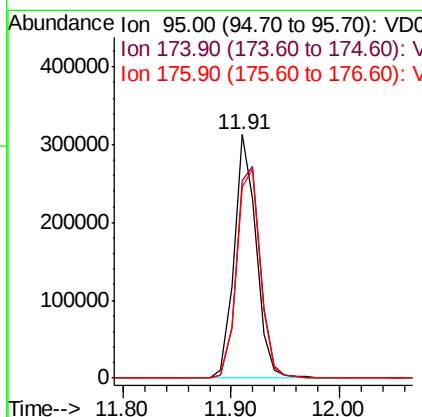
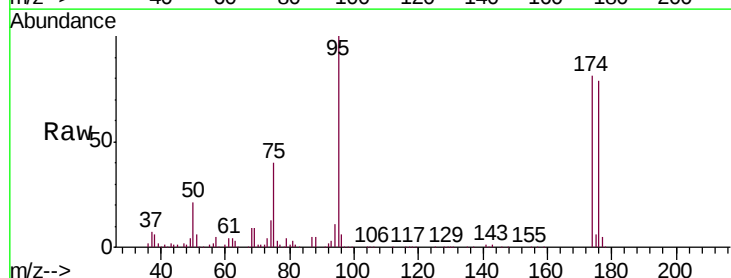
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081618-FL-042

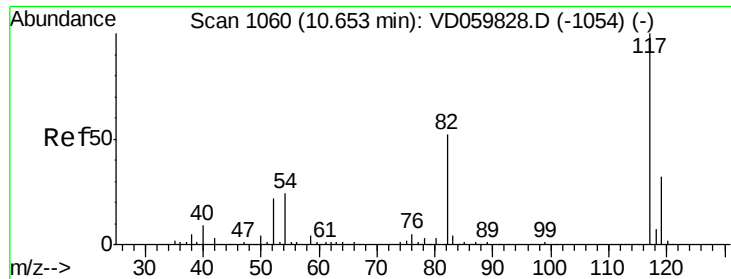
Tgt Ion: 63 Resp: 518
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.6 29.4#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 11.91 min Scan# 1187
 Delta R.T. 0.01 min
 Lab File: VD059869.D
 Acq: 21 Aug 2018 21:34

Tgt Ion: 95 Resp: 443579
 Ion Ratio Lower Upper
 95 100
 174 81.1 0.0 169.2
 176 78.7 0.0 168.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.66 min Scan# 1060

Delta R.T. 0.01 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-042

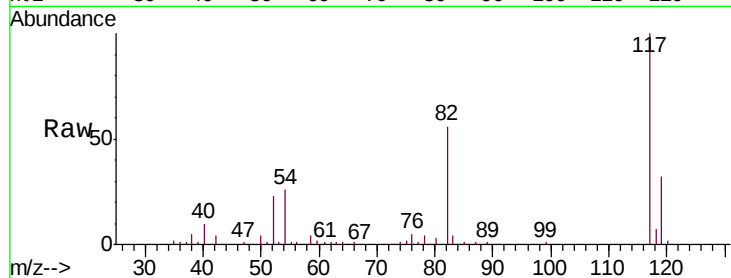
Tgt Ion:117 Resp: 1014577

Ion Ratio Lower Upper

117 100

82 56.1 41.6 62.4

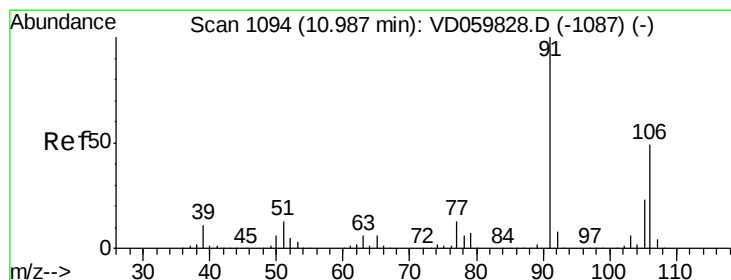
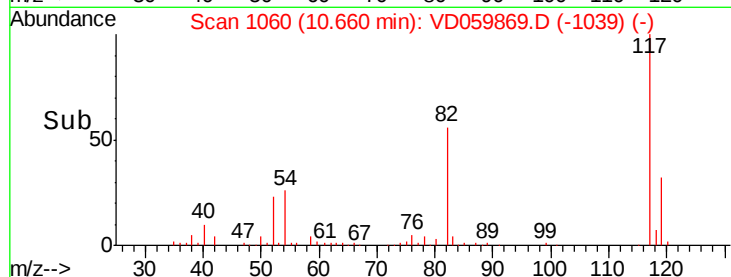
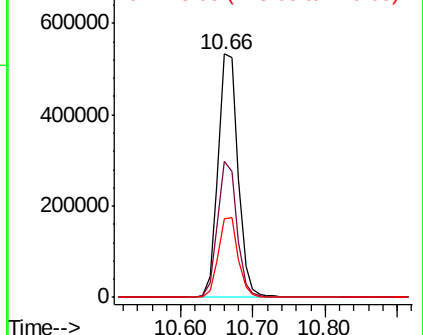
119 32.1 25.6 38.4



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



#68

m/p-Xylenes

Concen: 5.915 ug/l

RT: 10.98 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VD059869.D

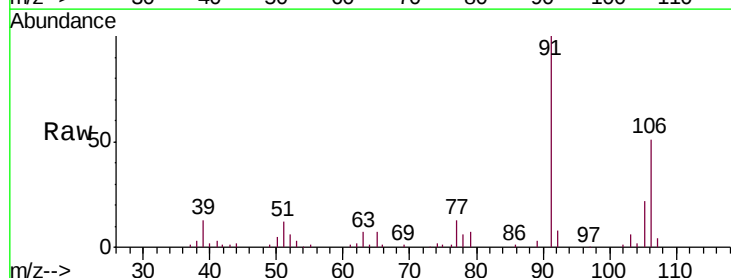
Acq: 21 Aug 2018 21:34

Tgt Ion:106 Resp: 74228

Ion Ratio Lower Upper

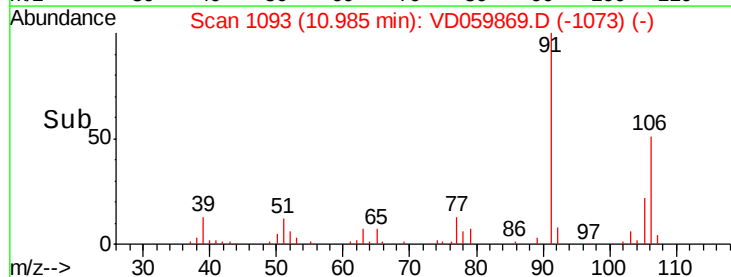
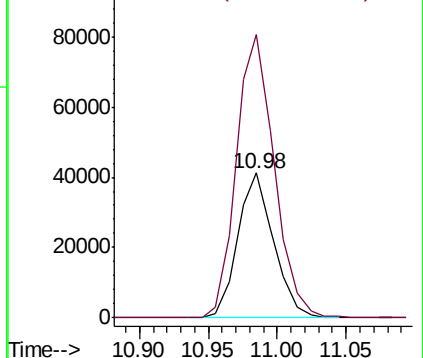
106 100

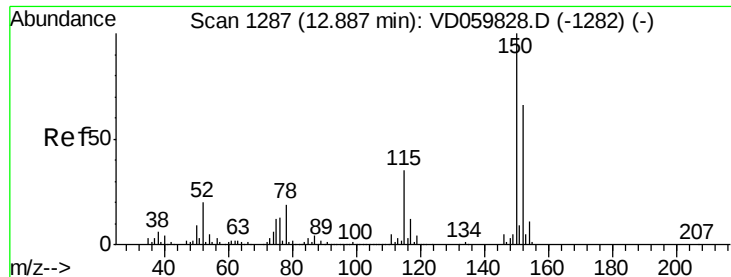
91 195.3 161.8 242.8



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: 12.89 min Scan# 1287

Delta R.T. 0.01 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Instrument :

MSVOA_D

ClientSampleId :

RA-081618-FL-042

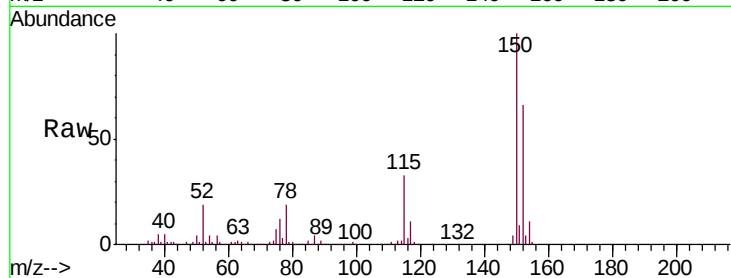
Tgt Ion:152 Resp: 420377

Ion Ratio Lower Upper

152 100

115 50.4 26.9 80.6

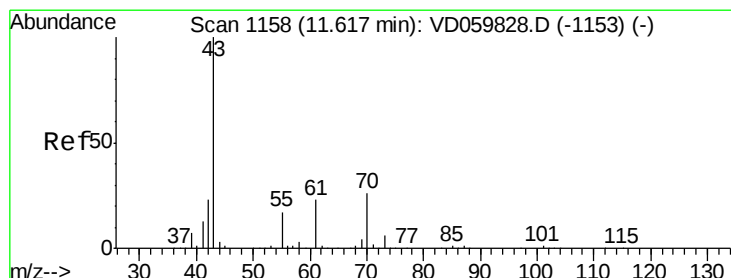
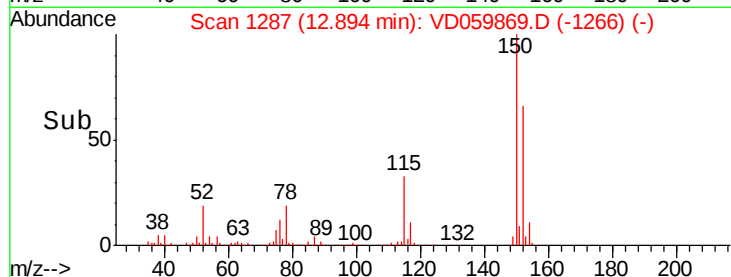
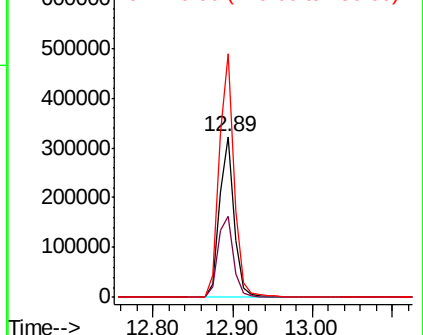
150 151.8 0.0 306.8



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



#74

N-ethyl acetate

Concen: 1.090 ug/l

RT: 11.58 min Scan# 1153

Delta R.T. -0.04 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Tgt Ion: 43 Resp: 13980

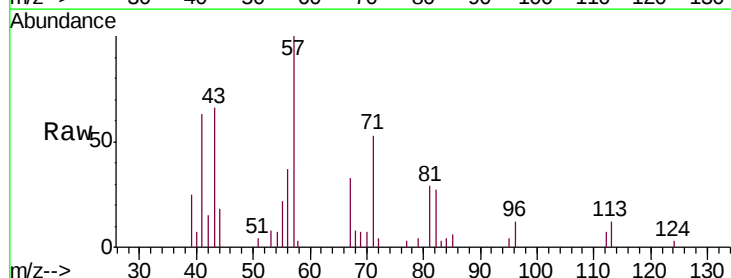
Ion Ratio Lower Upper

43 100

70 10.2 20.5 30.7#

55 33.1 13.7 20.5#

61 0.0 18.0 27.0#

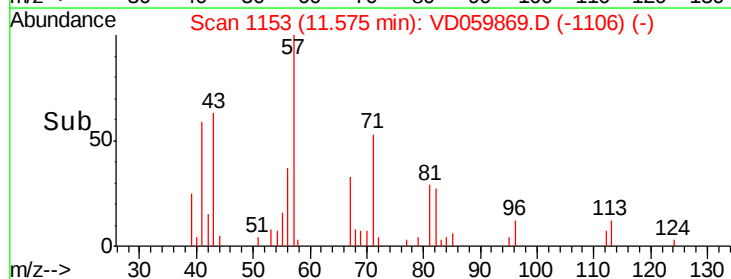
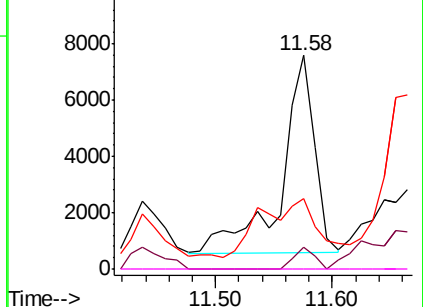


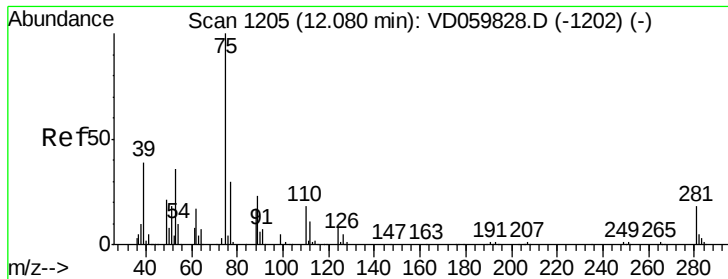
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#76

1,2,3-Trichloropropane

Concen: 20.069 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. -0.17 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

Instrument :

MSVOA_D

ClientSampleId :

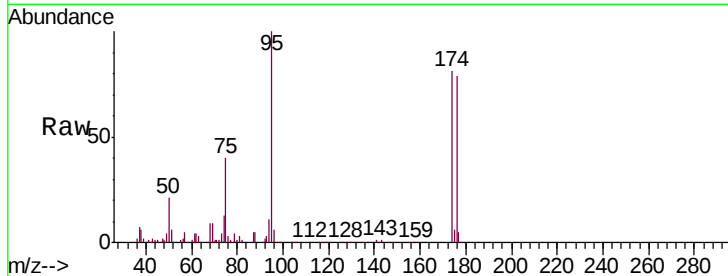
RA-081618-FL-042

Tgt Ion: 75 Resp: 139571

Ion Ratio Lower Upper

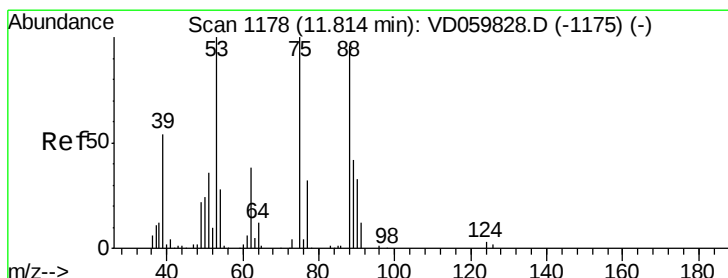
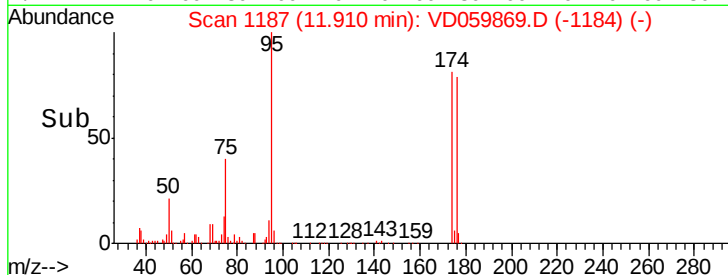
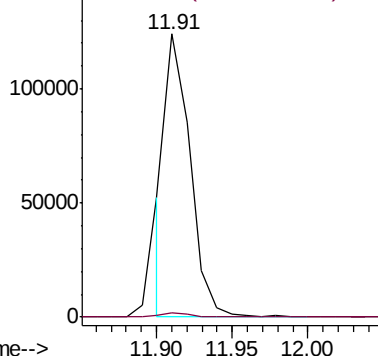
75 100

77 1.4 16.0 47.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 79.844 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.10 min

Lab File: VD059869.D

Acq: 21 Aug 2018 21:34

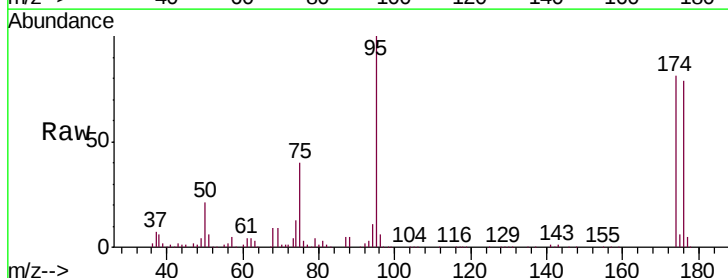
Tgt Ion: 75 Resp: 173587

Ion Ratio Lower Upper

75 100

53 0.2 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

