

Data File : VD059865.D
Acq On : 21 Aug 2018 19:40
Operator : JC/SY
Sample : J4559-04
Misc : 5.09g/5ml/MSVOA_D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-75-048

Quant Time: Aug 22 01:13:33 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	890834	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	6.65	114	1230281	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.66	117	770428	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.89	152	235722	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.98	65	418748	58.73	ug/l	0.02
Spiked Amount	50.000		Recovery	=	117.46%	
35) Dibromofluoromethane	5.51	113	519170	57.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.10%	
50) Toluene-d8	8.67	98	1244810	50.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.46%	
62) 4-Bromofluorobenzene	11.91	95	352130	37.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.80%	

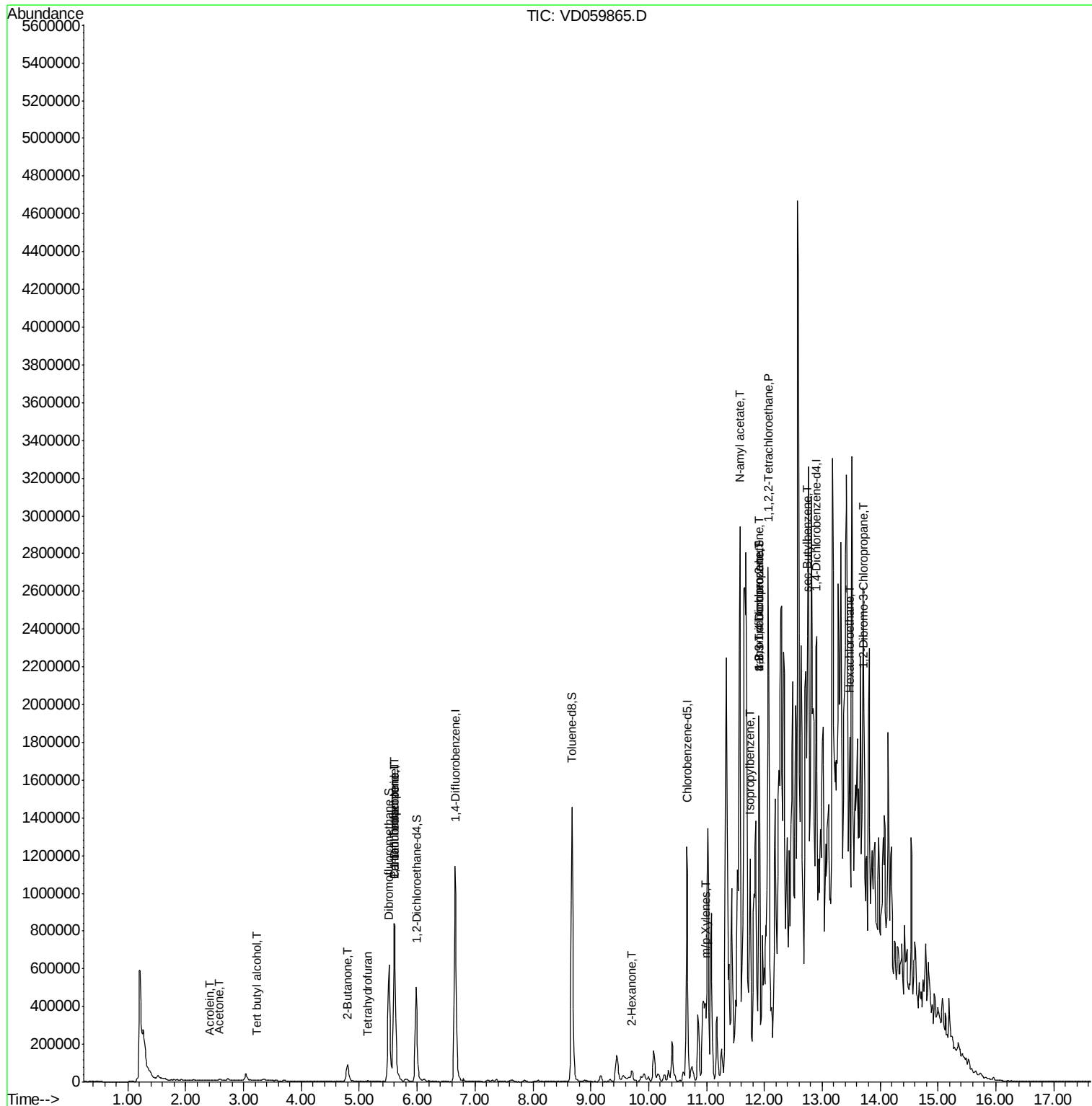
Target Compounds			Qvalue			
11) Tert butyl alcohol	3.22	59	504	1.912	ug/l #	67
13) Acrolein	2.43	56	665	3.526	ug/l	93
16) Acetone	2.58	43	18809	15.740	ug/l	93
18) Methyl Acetate	2.89	43	866	Below Cal	#	65
20) Methylene Chloride	3.04	84	14548	Below Cal		86
25) 2-Butanone	4.79	43	10398	2.879	ug/l #	89
29) Tetrahydrofuran	5.15	42	4331	2.368	ug/l #	77
31) Cyclohexane	5.60	56	19315	Below Cal	#	1
36) 1,1-Dichloropropene	5.60	75	62641	6.004	ug/l #	47
38) Carbon Tetrachloride	5.60	117	71354	6.852	ug/l #	15
59) 2-Hexanone	9.71	43	35363	6.689	ug/l #	34
68) m/p-Xylenes	10.98	106	15326	1.954	ug/l	74
73) Isopropylbenzene	11.75	105	39518	2.460	ug/l	95
74) N-amyl acetate	11.57	43	489183	68.007	ug/l #	65
75) 1,1,2,2-Tetrachloroethane	12.07	83	172559	45.573	ug/l #	42
76) 1,2,3-Trichloropropane	11.91	75	99542	25.525	ug/l #	48
80) 1,3,5-Trimethylbenzene	12.30	105	2733	Below Cal		91
81) trans-1,4-Dichloro-2-buten	11.91	75	129944	106.591	ug/l #	16
82) 4-Chlorotoluene	12.28	91	5695	Below Cal		75
85) sec-Butylbenzene	12.74	105	54452	3.240	ug/l	98
89) n-Butylbenzene	13.18	91	27952	Below Cal	#	53
90) Hexachloroethane	13.47	117	22489	5.979	ug/l #	5
91) 1,2-Dichlorobenzene	13.18	146	250	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	13.73	75	1408	2.498	ug/l #	23

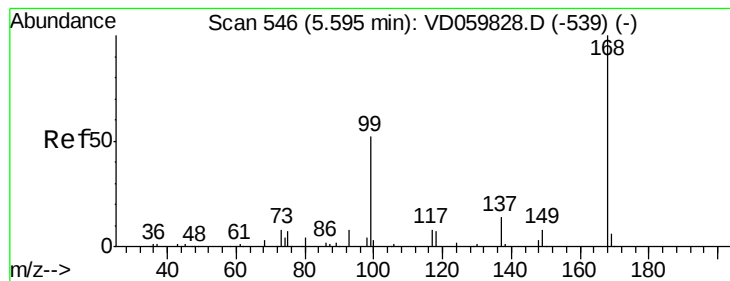
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VD059865.D
Acq On : 21 Aug 2018 19:40
Operator : JC/SY
Sample : J4559-04
Misc : 5.09g/5ml/MSVOA_D/SOIL
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-75-048

Quant Time: Aug 22 01:13:33 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. 0.02 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Instrument :

MSVOA_D

ClientSampleId :

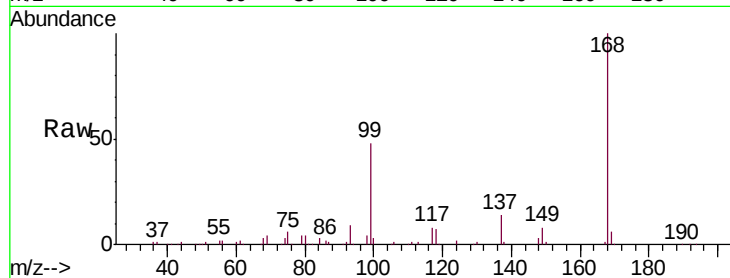
RA-081718-SSW-75-048

Tgt Ion:168 Resp: 890834

Ion Ratio Lower Upper

168 100

99 48.4 43.6 65.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.61

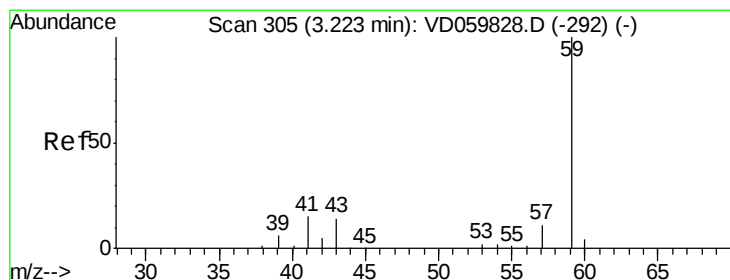
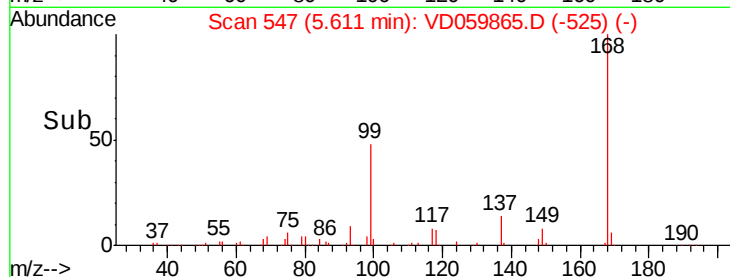
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.912 ug/l

RT: 3.22 min Scan# 304

Delta R.T. -0.00 min

Lab File: VD059865.D

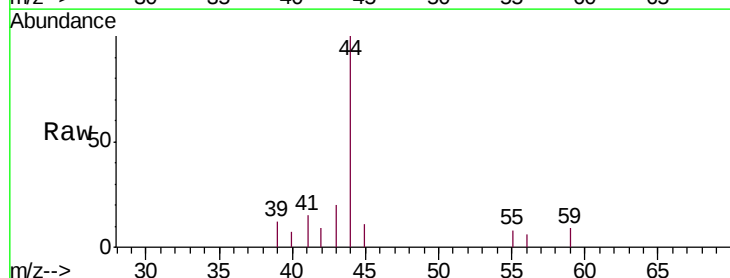
Acq: 21 Aug 2018 19:40

Tgt Ion: 59 Resp: 504

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

3.22

500

400

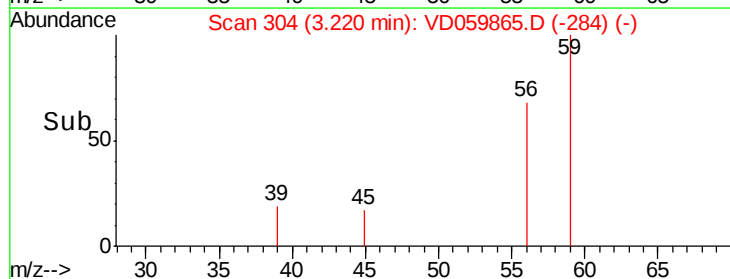
300

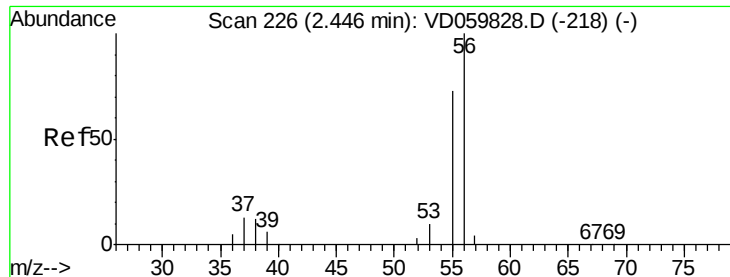
200

100

0

Time-->





#13

Acrolein

Concen: 3.526 ug/l

RT: 2.43 min Scan# 224

Delta R.T. -0.01 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Instrument :

MSVOA_D

ClientSampleId :

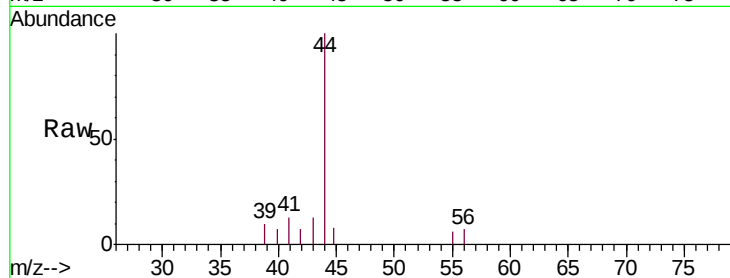
RA-081718-SSW-75-048

Tgt Ion: 56 Resp: 665

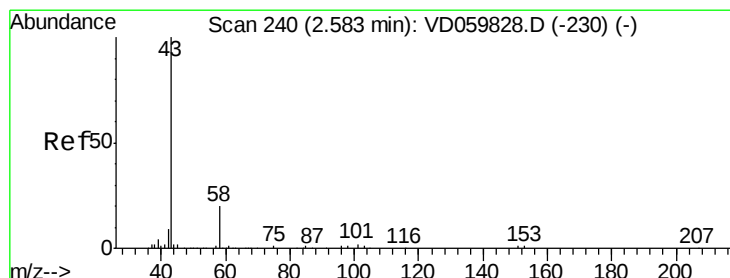
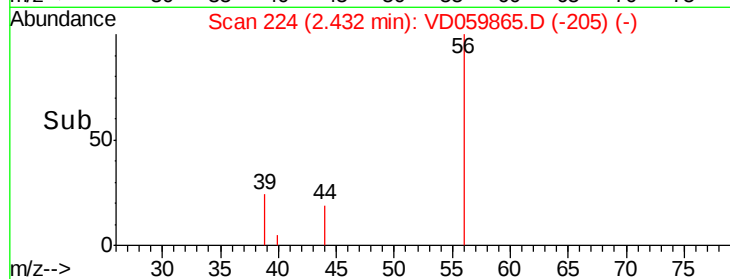
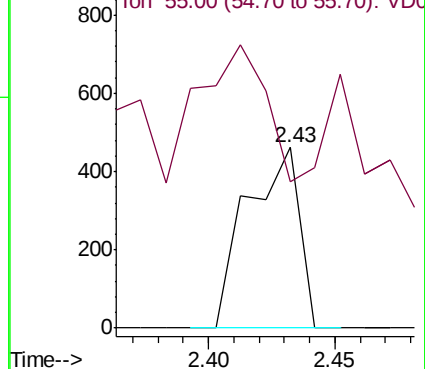
Ion Ratio Lower Upper

56 100

55 81.3 60.4 90.6



Abundance Ion 55.95 (55.65 to 56.65): VDC



#16

Acetone

Concen: 15.740 ug/l

RT: 2.58 min Scan# 239

Delta R.T. -0.00 min

Lab File: VD059865.D

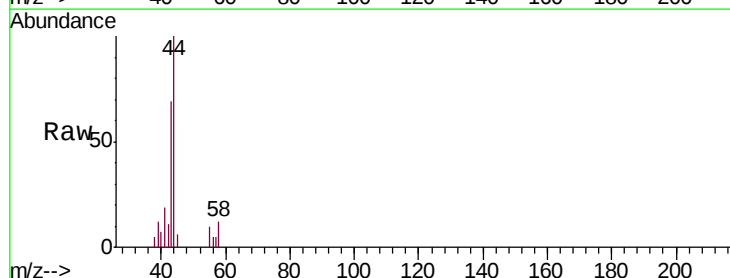
Acq: 21 Aug 2018 19:40

Tgt Ion: 43 Resp: 18809

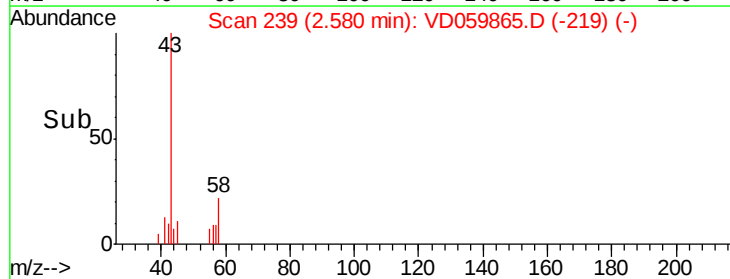
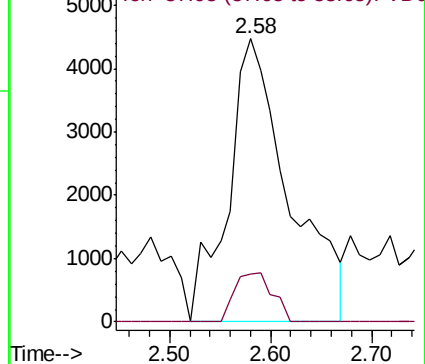
Ion Ratio Lower Upper

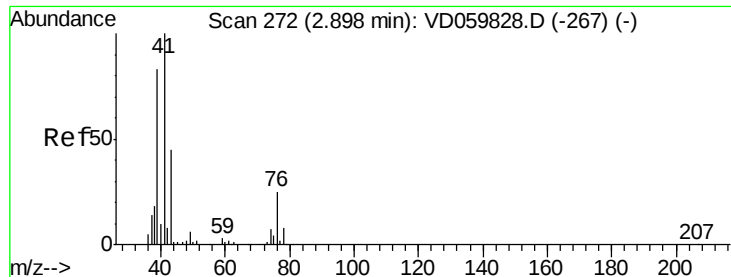
43 100

58 17.1 16.2 24.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

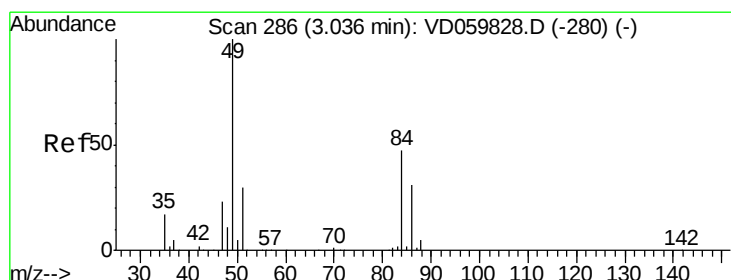
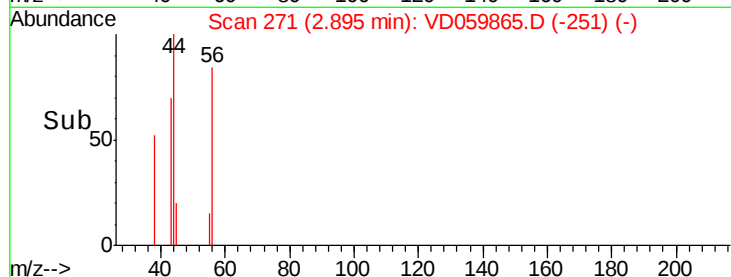
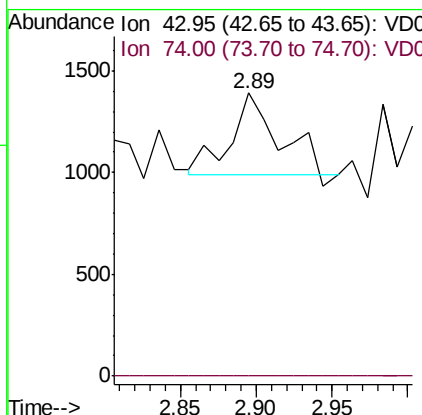
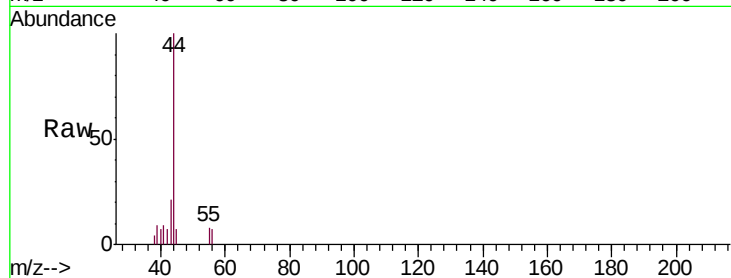




#18
Methyl Acetate
Concen: Below Cal
RT: 2.89 min Scan# 271
Delta R.T. -0.00 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

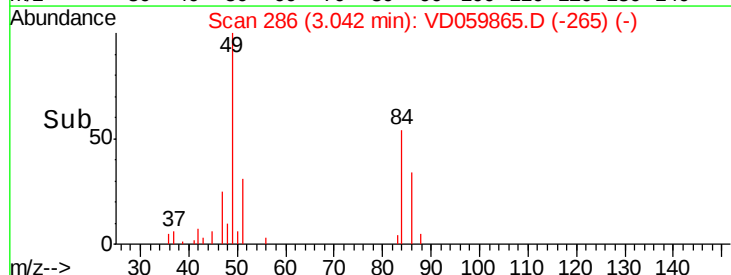
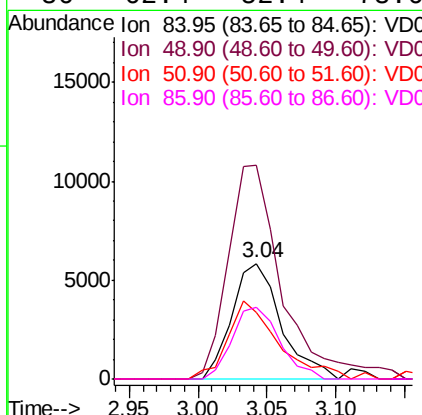
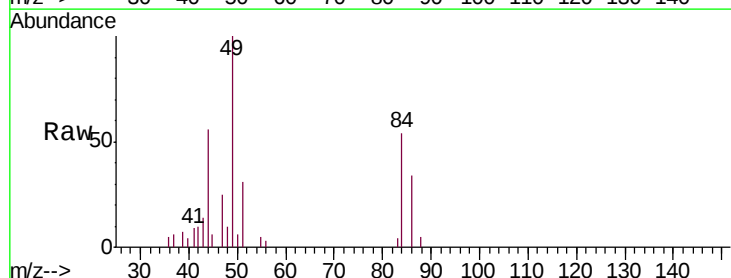
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-75-048

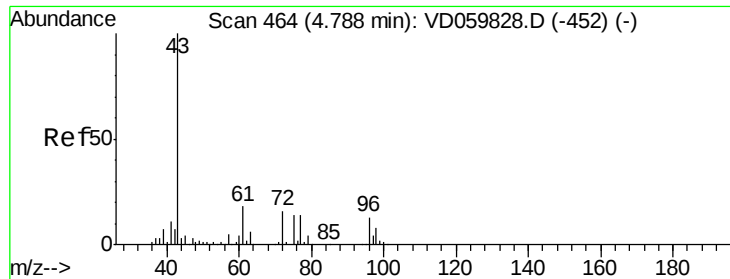
Tgt Ion: 43 Resp: 866
Ion Ratio Lower Upper
43 100
74 0.0 11.4 17.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 3.04 min Scan# 286
Delta R.T. 0.01 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

Tgt Ion: 84 Resp: 14548
Ion Ratio Lower Upper
84 100
49 184.4 170.4 255.6
51 57.7 51.4 77.0
86 62.4 52.4 78.6

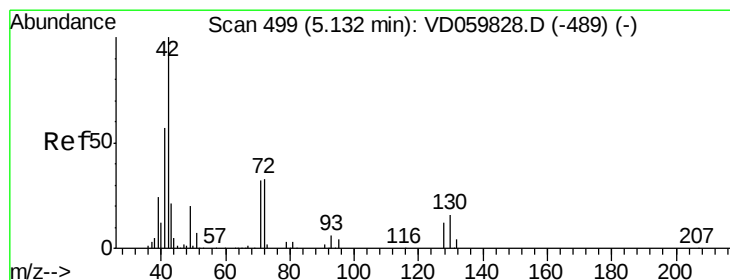
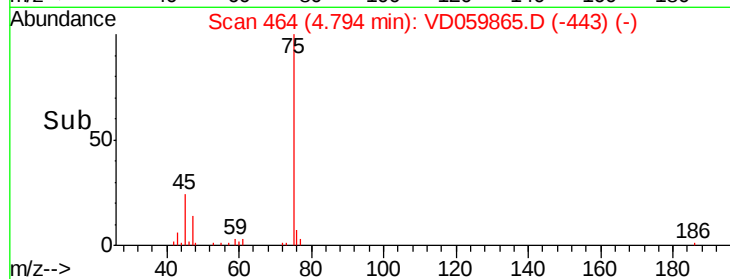
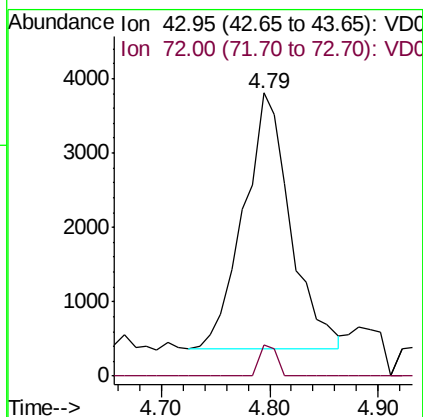
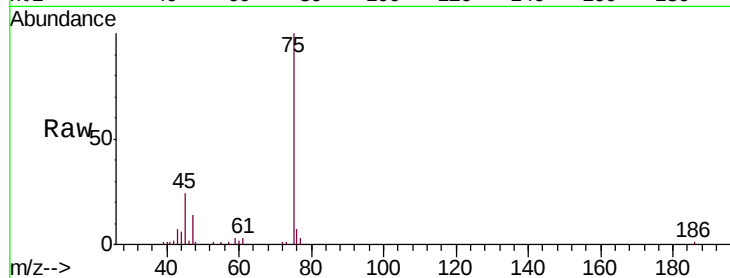




#25
2-Butanone
Concen: 2.879 ug/l
RT: 4.79 min Scan# 464
Delta R.T. 0.01 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

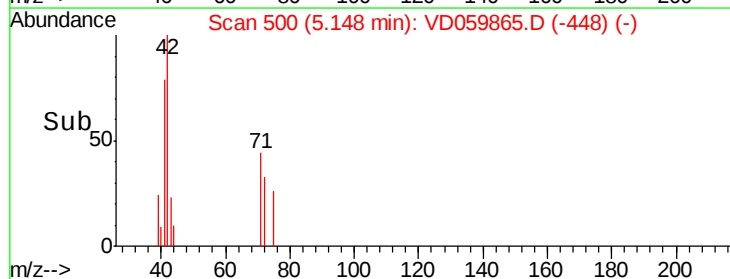
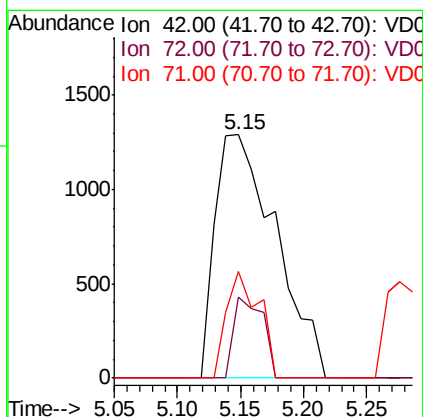
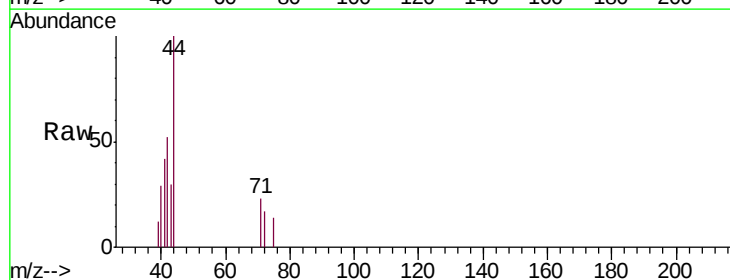
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-75-048

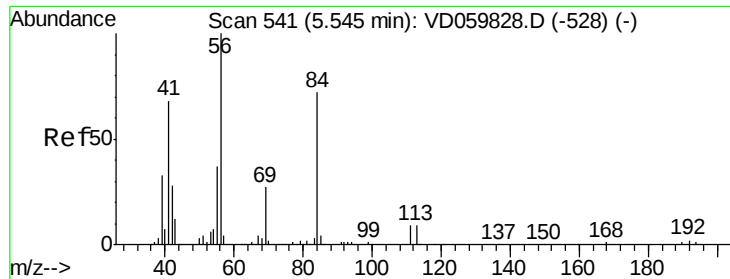
Tgt Ion: 43 Resp: 10398
Ion Ratio Lower Upper
43 100
72 11.0 12.4 18.6#



#29
Tetrahydrofuran
Concen: 2.368 ug/l
RT: 5.15 min Scan# 500
Delta R.T. 0.02 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

Tgt Ion: 42 Resp: 4331
Ion Ratio Lower Upper
42 100
72 15.7 25.8 38.6#
71 23.1 25.7 38.5#

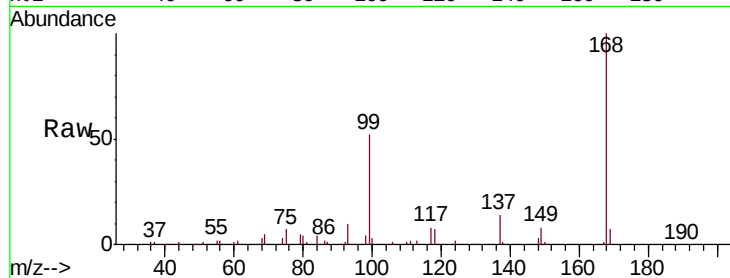




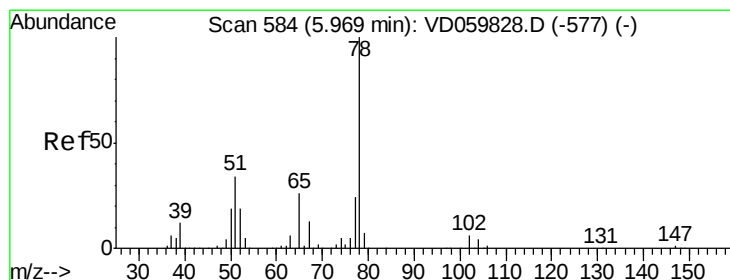
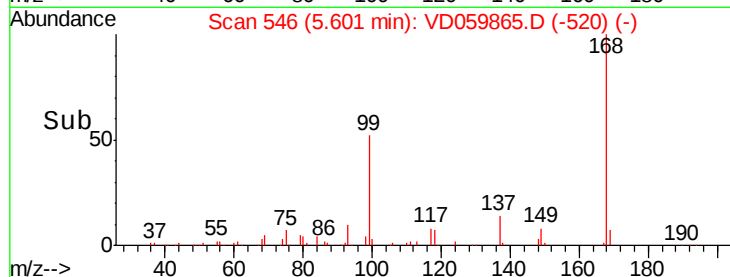
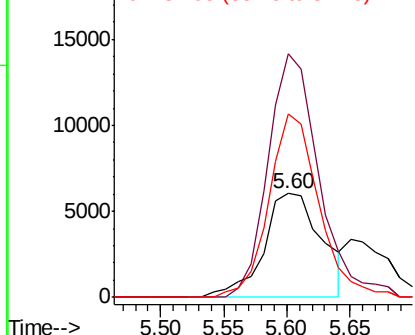
#31
Cyclohexane
Concen: Below Cal
RT: 5.60 min Scan# 546
Delta R.T. 0.06 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-75-048

Tgt Ion: 56 Resp: 19315
Ion Ratio Lower Upper
56 100
69 234.8 21.7 32.5#
84 177.0 57.8 86.6#

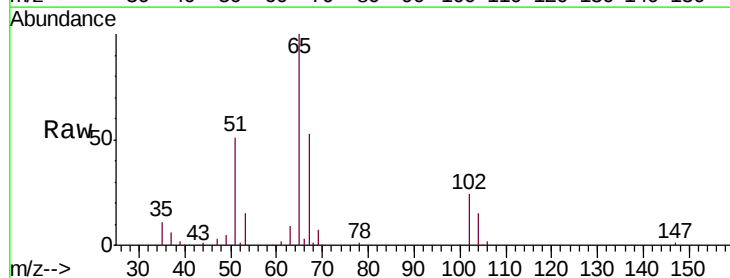


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

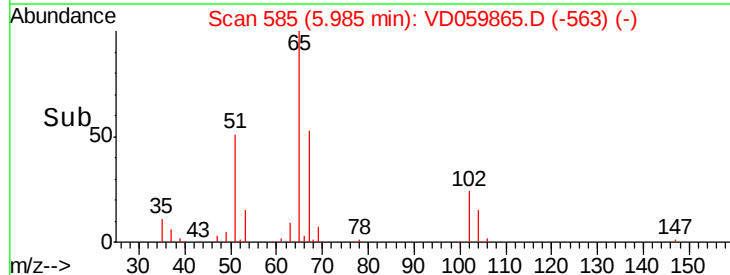
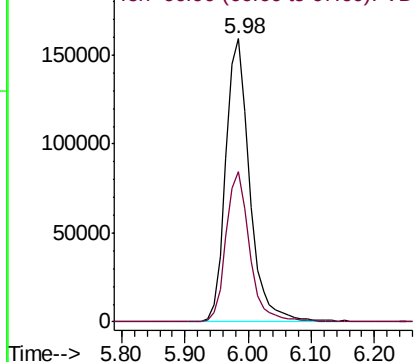


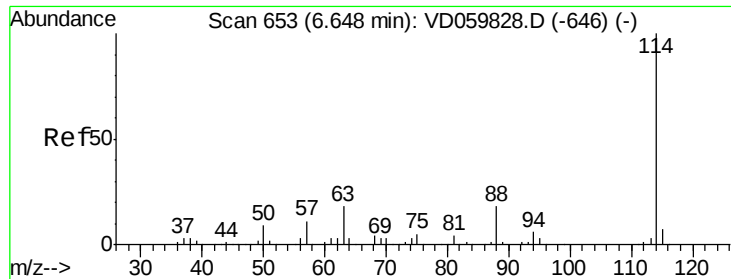
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 5.98 min Scan# 585
Delta R.T. 0.02 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

Tgt Ion: 65 Resp: 418748
Ion Ratio Lower Upper
65 100
67 53.0 0.0 102.4



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

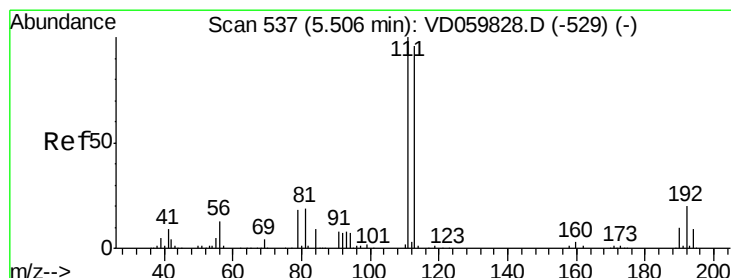
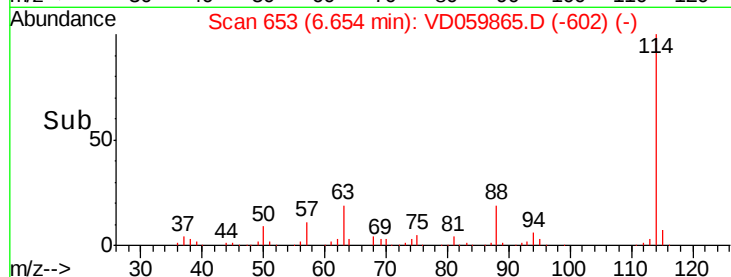
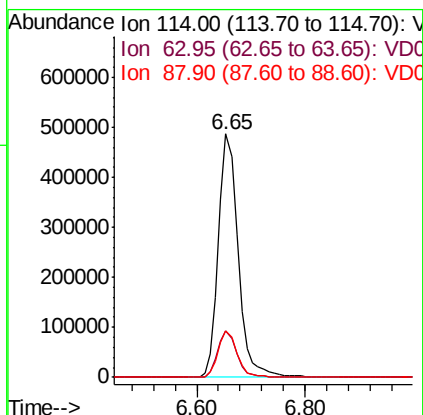
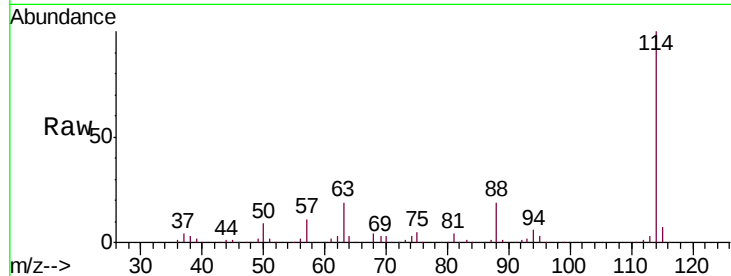




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.65 min Scan# 653
 Delta R.T. 0.01 min
 Lab File: VD059865.D
 Acq: 21 Aug 2018 19:40

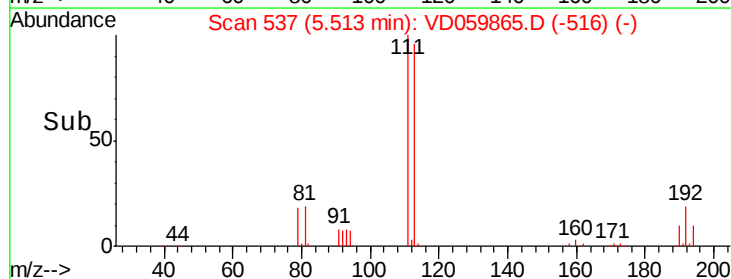
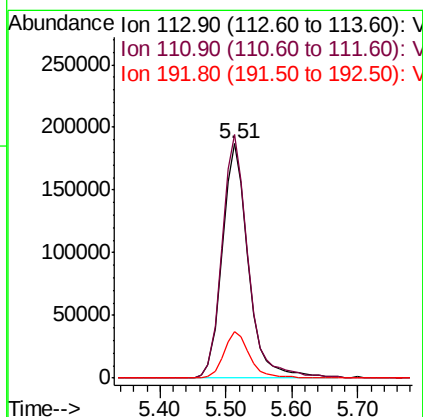
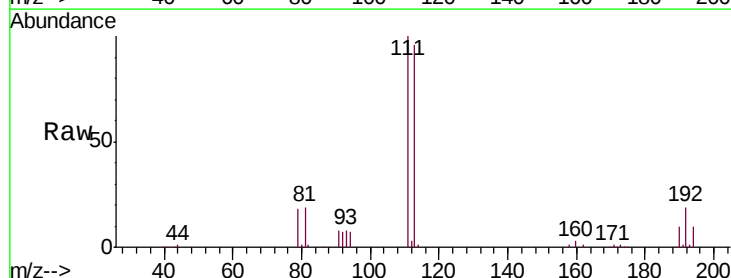
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081718-SSW-75-048

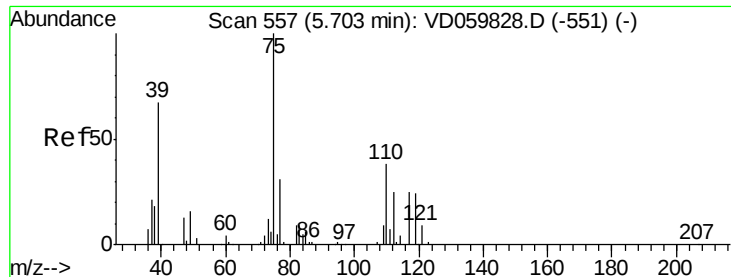
Tgt Ion:114 Resp: 1230281
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 37.0
 88 19.0 0.0 37.0



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.51 min Scan# 537
 Delta R.T. 0.01 min
 Lab File: VD059865.D
 Acq: 21 Aug 2018 19:40

Tgt Ion:113 Resp: 519170
 Ion Ratio Lower Upper
 113 100
 111 104.0 83.3 124.9
 192 19.7 16.8 25.2





#36

1,1-Dichloropropene

Concen: 6.004 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.10 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048

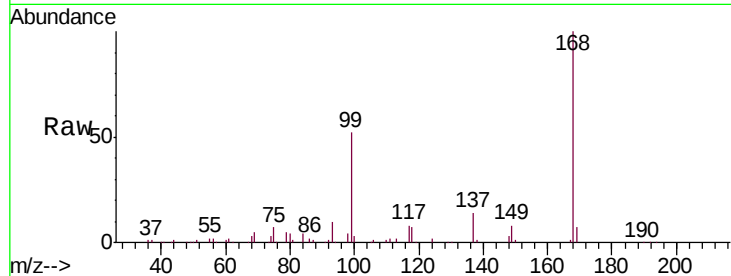
Tgt Ion: 75 Resp: 62641

Ion Ratio Lower Upper

75 100

110 7.6 18.8 56.4#

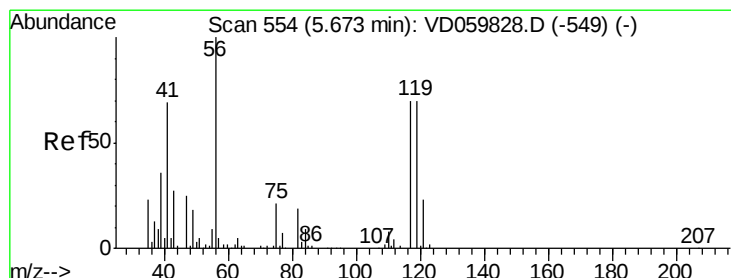
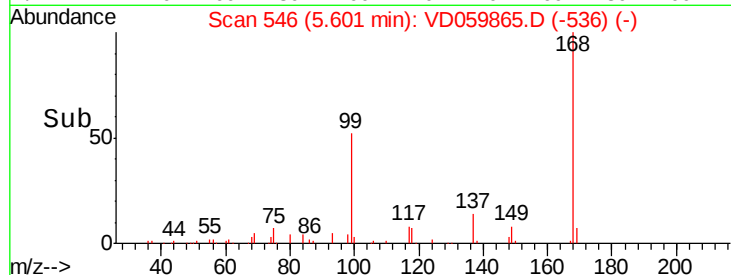
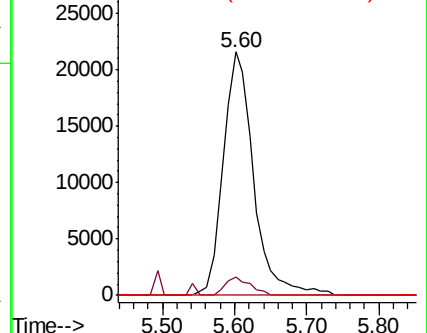
77 0.0 24.9 37.3#



Abundance Ion 75.00 (74.70 to 75.70): VD059828.D (-551) (-)

Ion 109.90 (109.60 to 110.60): VD059828.D (-551) (-)

Ion 76.95 (76.65 to 77.65): VD059828.D (-551) (-)



#38

Carbon Tetrachloride

Concen: 6.852 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.07 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

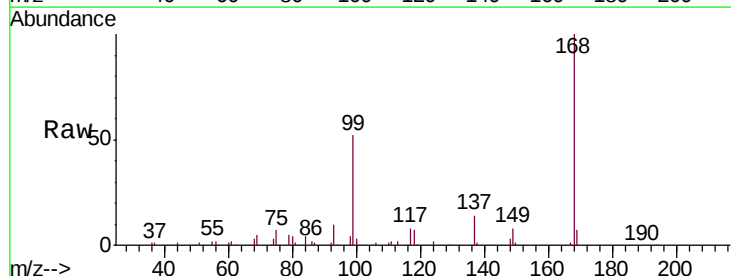
Tgt Ion: 117 Resp: 71354

Ion Ratio Lower Upper

117 100

119 4.2 77.0 115.4#

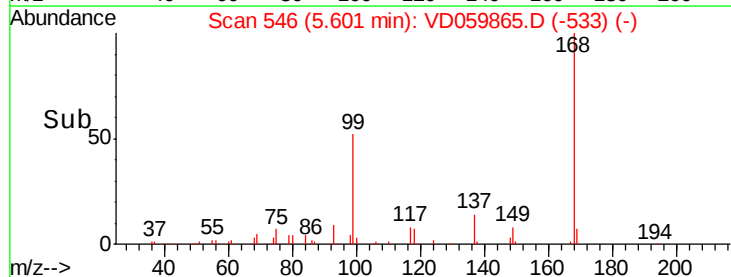
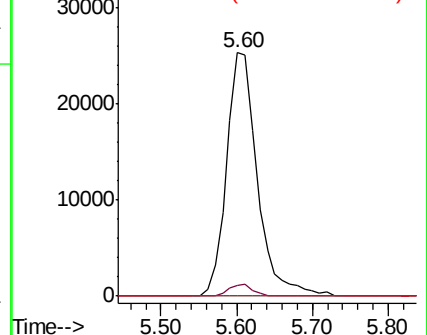
121 0.0 24.7 37.1#

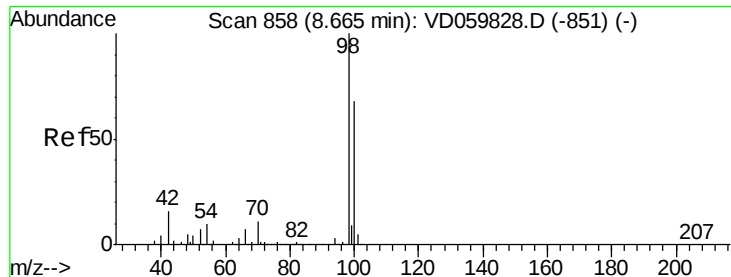


Abundance Ion 116.85 (116.55 to 117.55): VD059828.D (-549) (-)

Ion 118.85 (118.55 to 119.55): VD059828.D (-549) (-)

Ion 120.85 (120.55 to 121.55): VD059828.D (-549) (-)

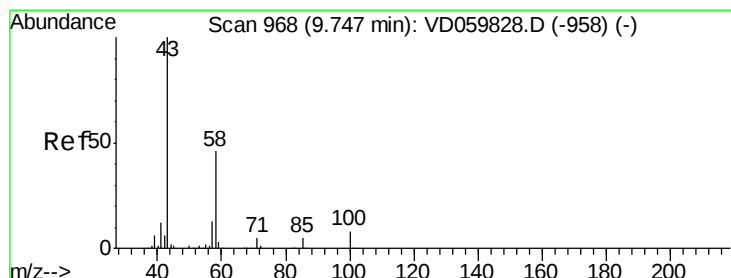
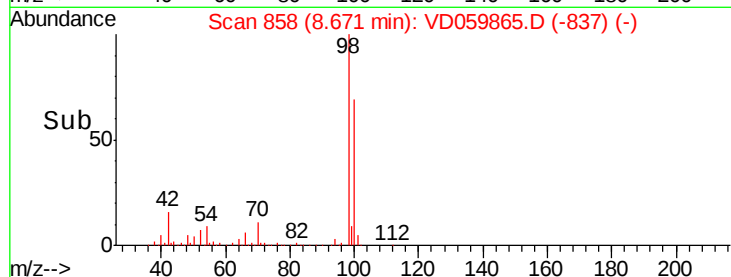
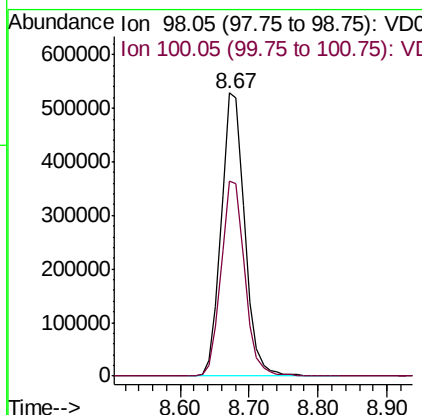
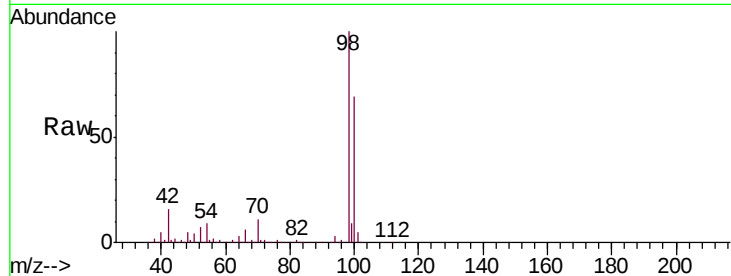




#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.67 min Scan# 858
Delta R.T. 0.01 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

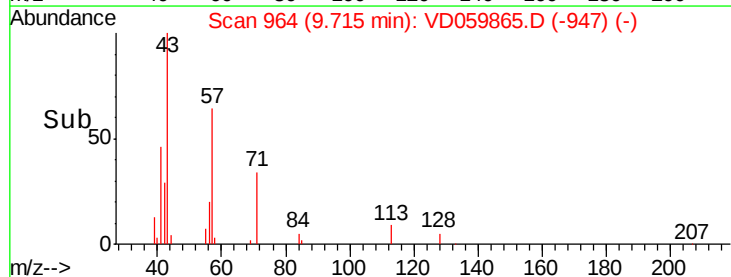
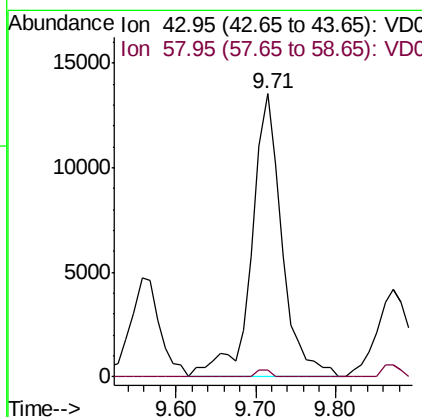
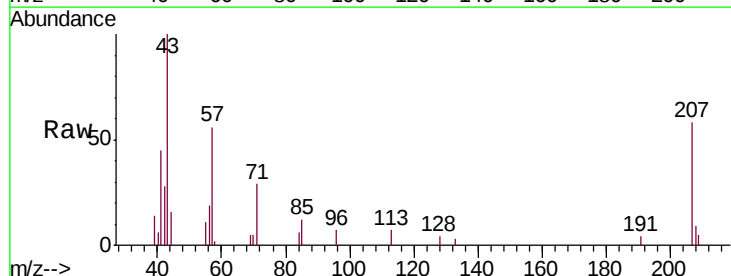
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-75-048

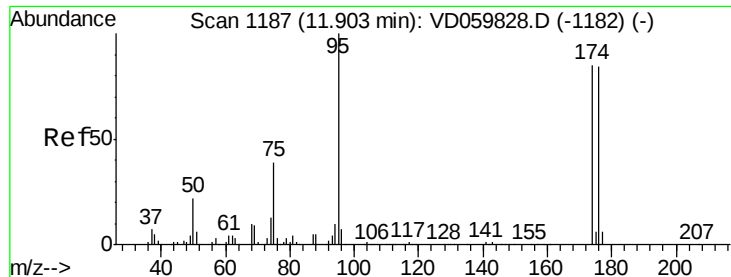
Tgt Ion: 98 Resp: 1244810
Ion Ratio Lower Upper
98 100
100 69.0 55.0 82.4



#59
2-Hexanone
Concen: 6.689 ug/l
RT: 9.71 min Scan# 964
Delta R.T. -0.03 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

Tgt Ion: 43 Resp: 35363
Ion Ratio Lower Upper
43 100
58 2.4 23.1 69.2#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.01 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048

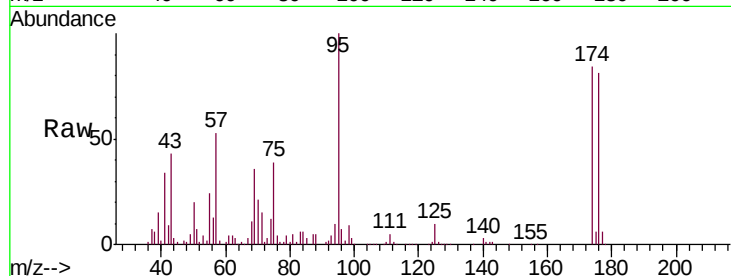
Tgt Ion: 95 Resp: 352130

Ion Ratio Lower Upper

95 100

174 83.7 0.0 169.2

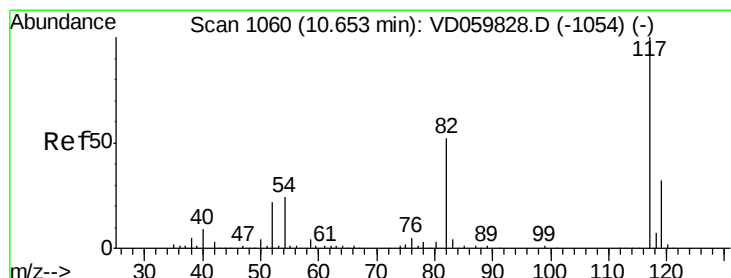
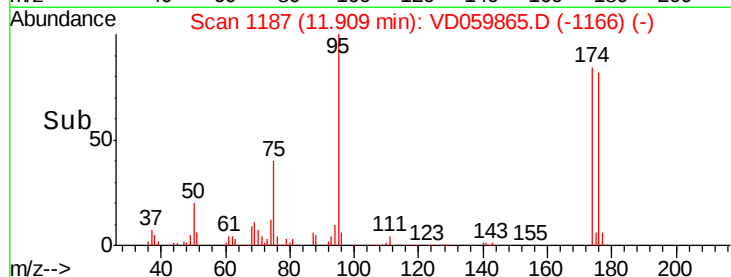
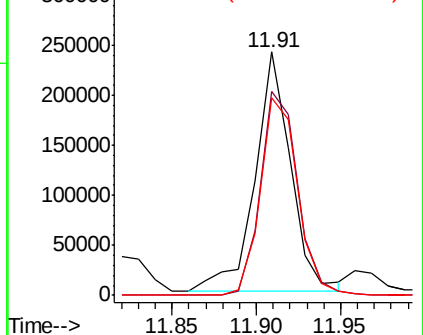
176 81.1 0.0 168.0



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: 10.66 min Scan# 1060

Delta R.T. 0.01 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

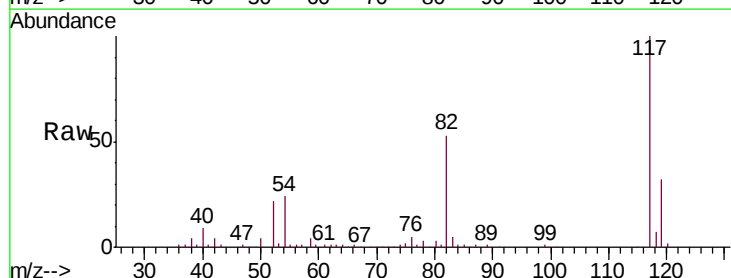
Tgt Ion: 117 Resp: 770428

Ion Ratio Lower Upper

117 100

82 52.6 41.6 62.4

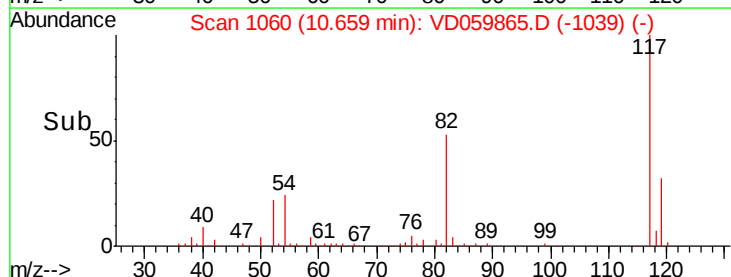
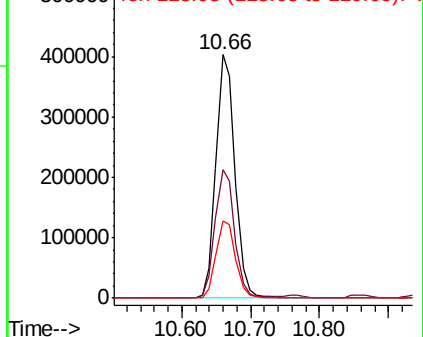
119 31.9 25.6 38.4

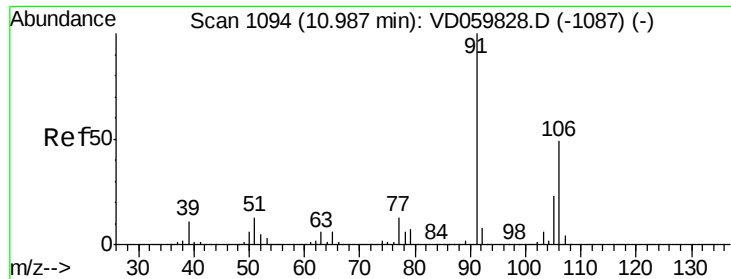


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

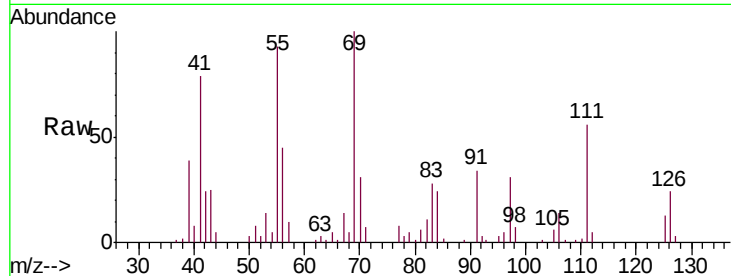




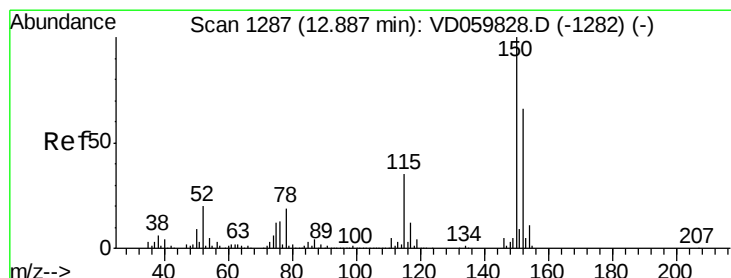
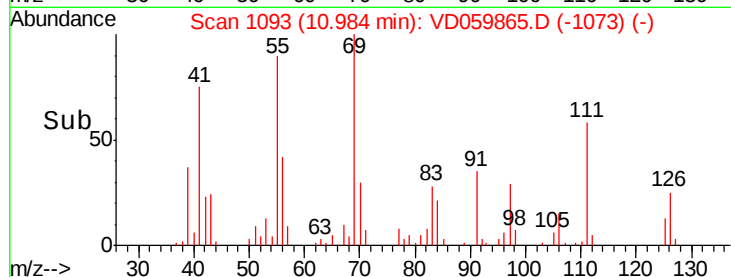
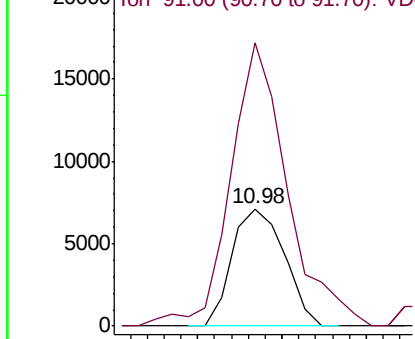
#68
m/p-Xylenes
Concen: 1.954 ug/l
RT: 10.98 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-SSW-75-048

Tgt Ion:106 Resp: 15326
Ion Ratio Lower Upper
106 100
91 241.7 161.8 242.8

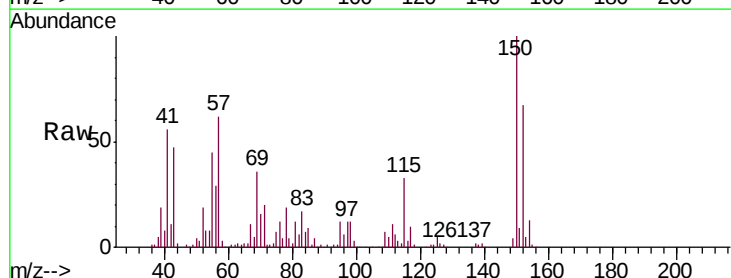


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

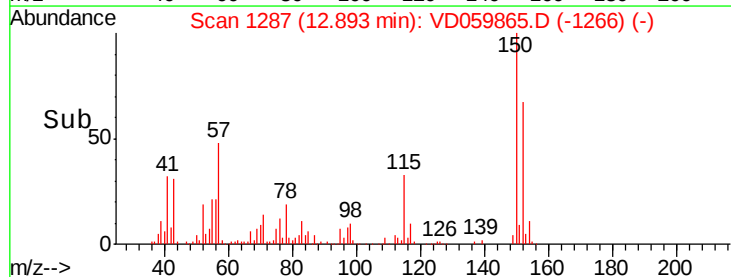
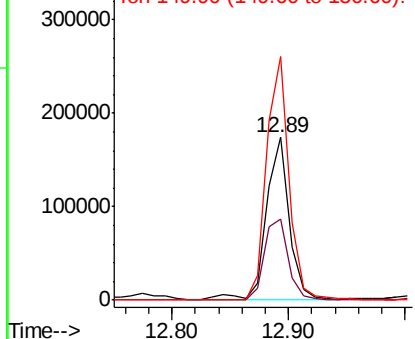


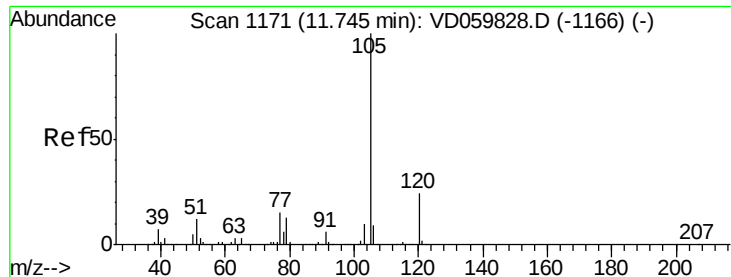
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.89 min Scan# 1287
Delta R.T. 0.01 min
Lab File: VD059865.D
Acq: 21 Aug 2018 19:40

Tgt Ion:152 Resp: 235722
Ion Ratio Lower Upper
152 100
115 50.0 26.9 80.6
150 149.6 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





#73

Isopropylbenzene

Concen: 2.460 ug/l

RT: 11.75 min Scan# 1171

Delta R.T. 0.01 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Instrument :

MSVOA_D

ClientSampleId :

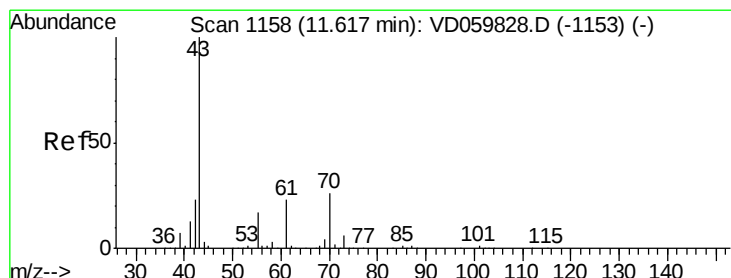
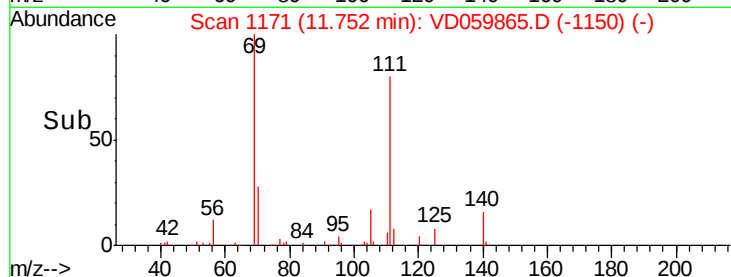
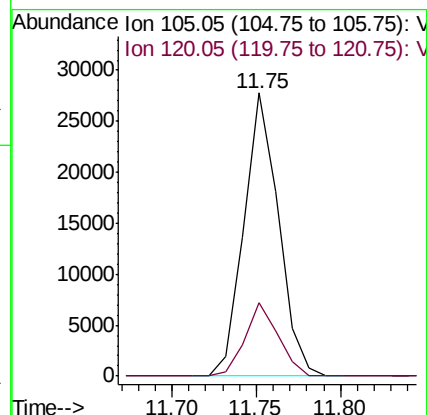
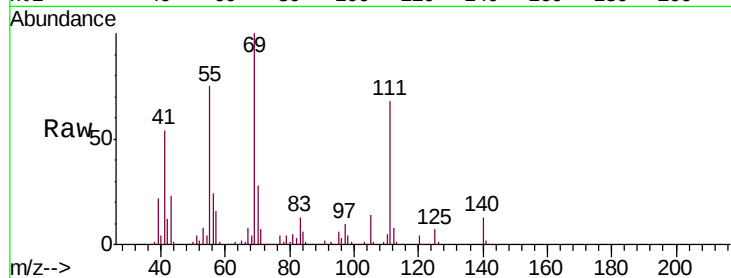
RA-081718-SSW-75-048

Tgt Ion:105 Resp: 39518

Ion Ratio Lower Upper

105 100

120 26.2 11.9 35.5



#74

N-ethyl acetate

Concen: 68.007 ug/l

RT: 11.57 min Scan# 1153

Delta R.T. -0.04 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Tgt Ion: 43 Resp: 489183

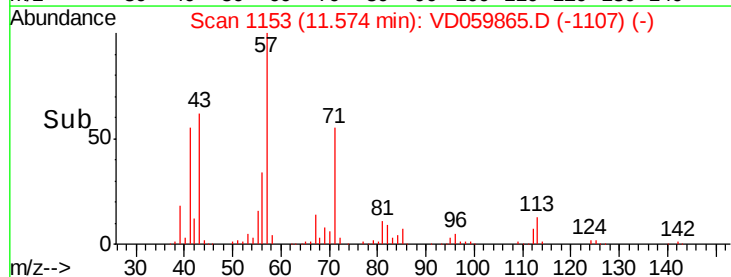
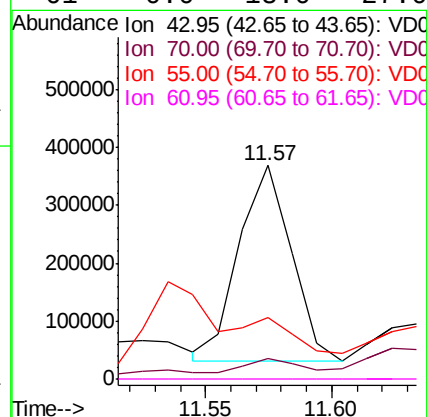
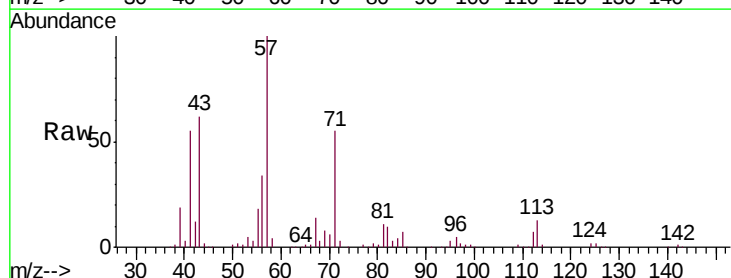
Ion Ratio Lower Upper

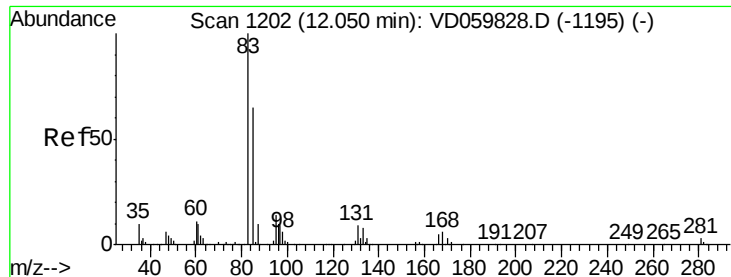
43 100

70 9.8 20.5 30.7#

55 28.7 13.7 20.5#

61 0.0 18.0 27.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 45.573 ug/l

RT: 12.07 min Scan# 1203

Delta R.T. 0.02 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048

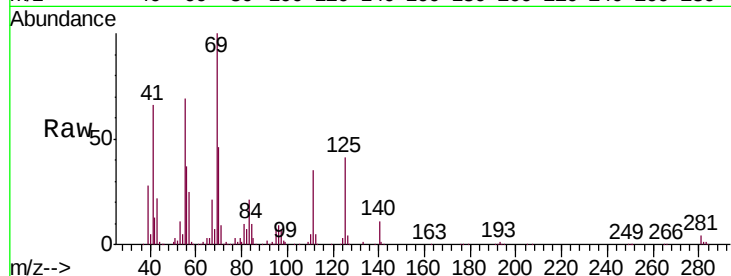
Tgt Ion: 83 Resp: 172559

Ion Ratio Lower Upper

83 100

131 0.0 4.3 13.1#

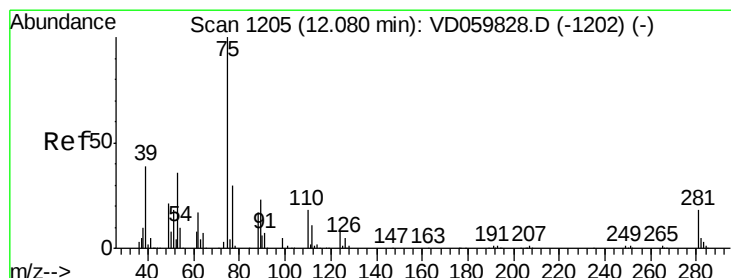
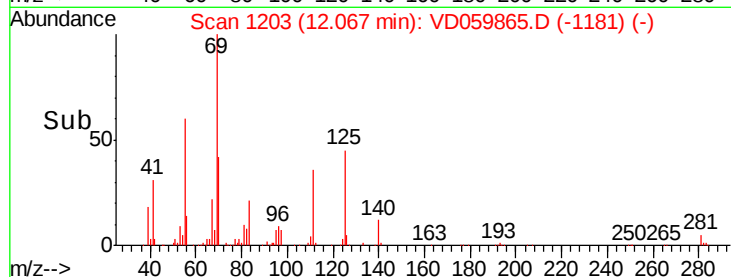
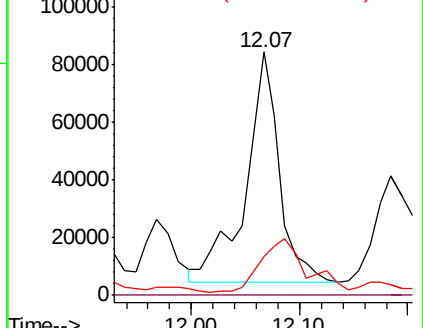
85 16.0 32.5 97.5#



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 25.525 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. -0.17 min

Lab File: VD059865.D

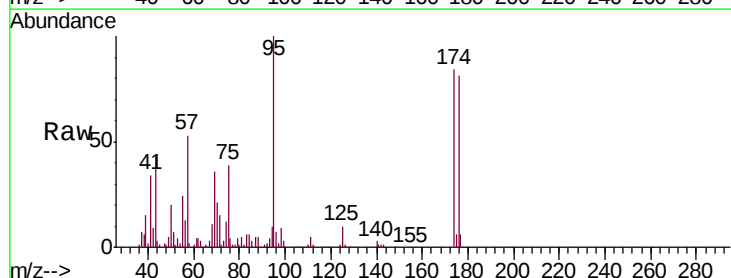
Acq: 21 Aug 2018 19:40

Tgt Ion: 75 Resp: 99542

Ion Ratio Lower Upper

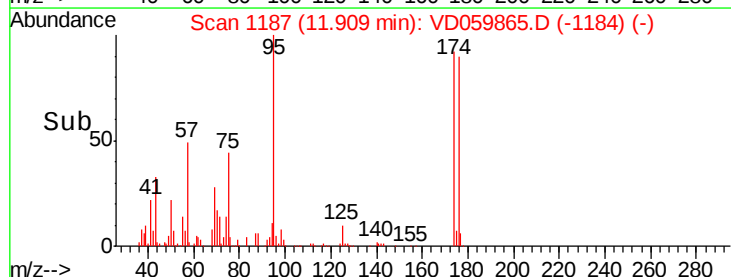
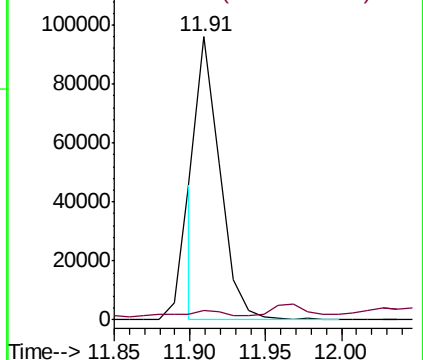
75 100

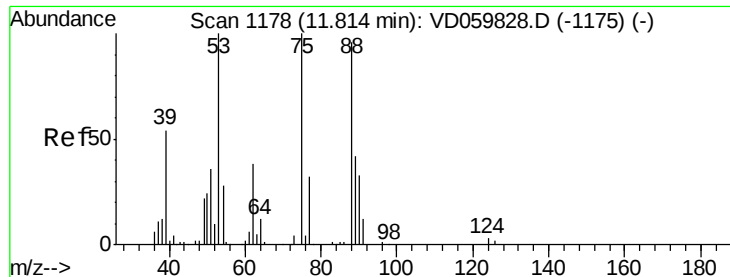
77 3.1 16.0 47.9#



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: 106.591 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.09 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-SSW-75-048

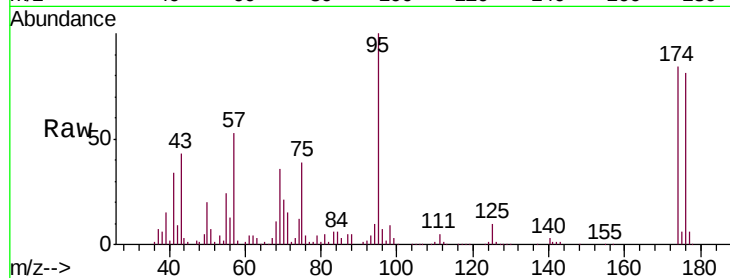
Tgt Ion: 75 Resp: 129944

Ion Ratio Lower Upper

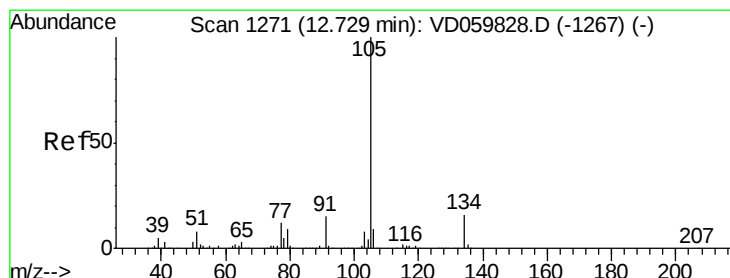
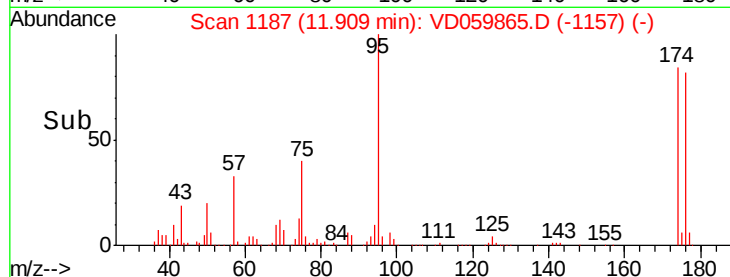
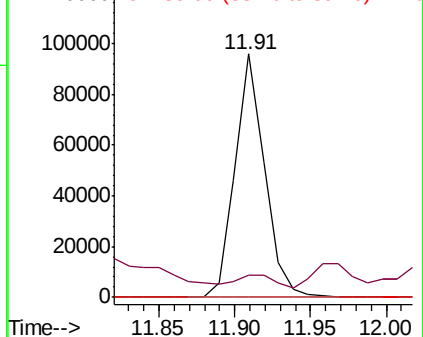
75 100

53 9.1 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



#85

sec-Butylbenzene

Concen: 3.240 ug/l

RT: 12.74 min Scan# 1271

Delta R.T. 0.01 min

Lab File: VD059865.D

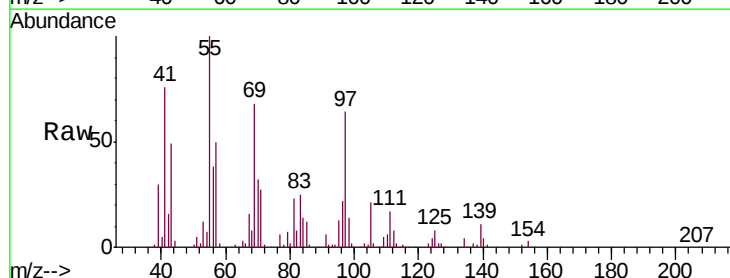
Acq: 21 Aug 2018 19:40

Tgt Ion: 105 Resp: 54452

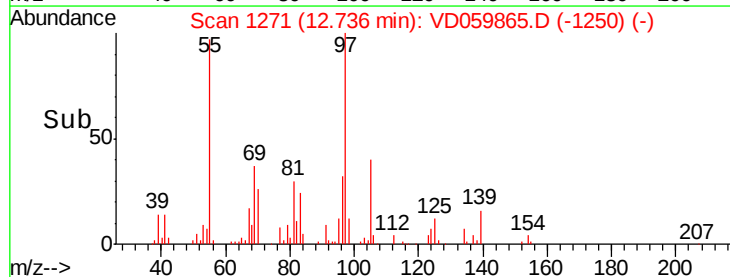
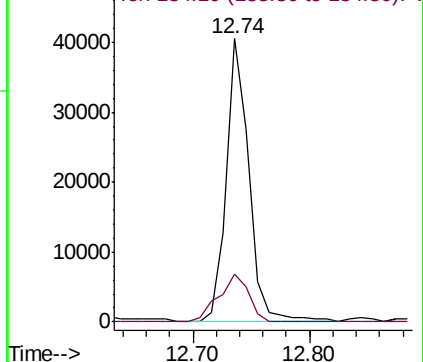
Ion Ratio Lower Upper

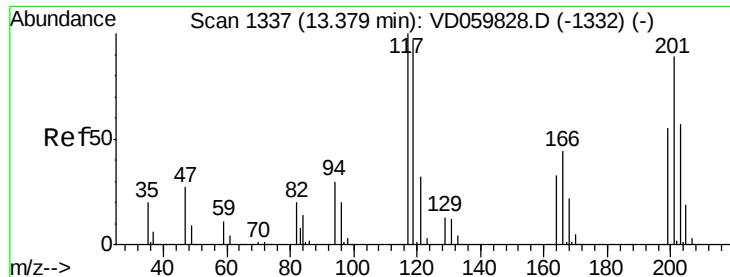
105 100

134 16.7 7.8 23.5



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 134.10 (133.80 to 134.80): V





#90

Hexachloroethane

Concen: 5.979 ug/l

RT: 13.47 min Scan# 1346

Delta R.T. 0.09 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Instrument :

MSVOA_D

ClientSampleId :

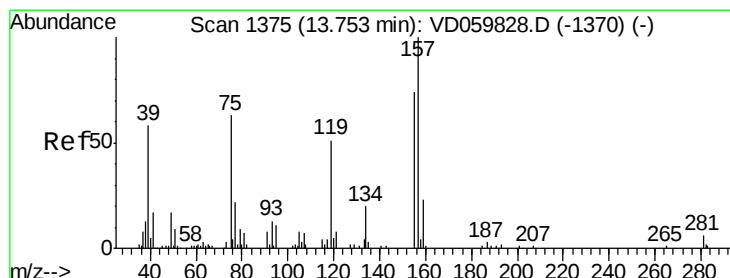
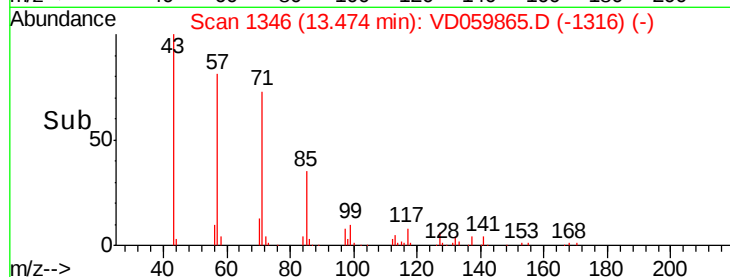
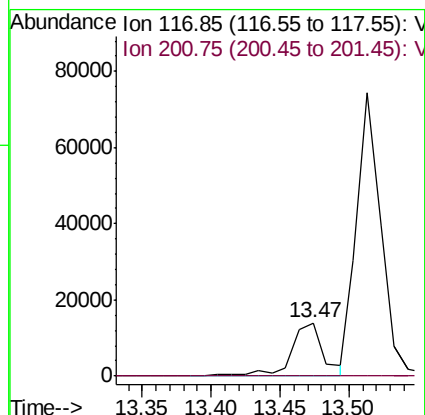
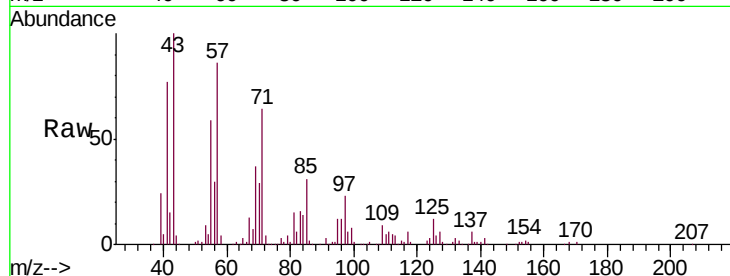
RA-081718-SSW-75-048

Tgt Ion:117 Resp: 22489

Ion Ratio Lower Upper

117 100

201 0.0 44.6 134.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.498 ug/l

RT: 13.73 min Scan# 1372

Delta R.T. -0.02 min

Lab File: VD059865.D

Acq: 21 Aug 2018 19:40

Tgt Ion: 75 Resp: 1408

Ion Ratio Lower Upper

75 100

155 138.0 59.1 177.3

157 0.0 79.7 238.9#

