

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD082018\
 Data File : VD059837.D
 Acq On : 20 Aug 2018 18:15
 Operator : JC/SY
 Sample : J4501-02RE
 Misc : 5.05g/5ml/MSVOA_D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081318-FL-017RE

Quant Time: Aug 21 05:10:59 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	362435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.64	114	577045	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.66	117	496797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	230220	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.97	65	238724	82.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	164.60%	
35) Dibromofluoromethane	5.50	113	251990	59.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.08%	
50) Toluene-d8	8.67	98	592230	51.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.92%	
62) 4-Bromofluorobenzene	11.91	95	236422	53.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.06%	

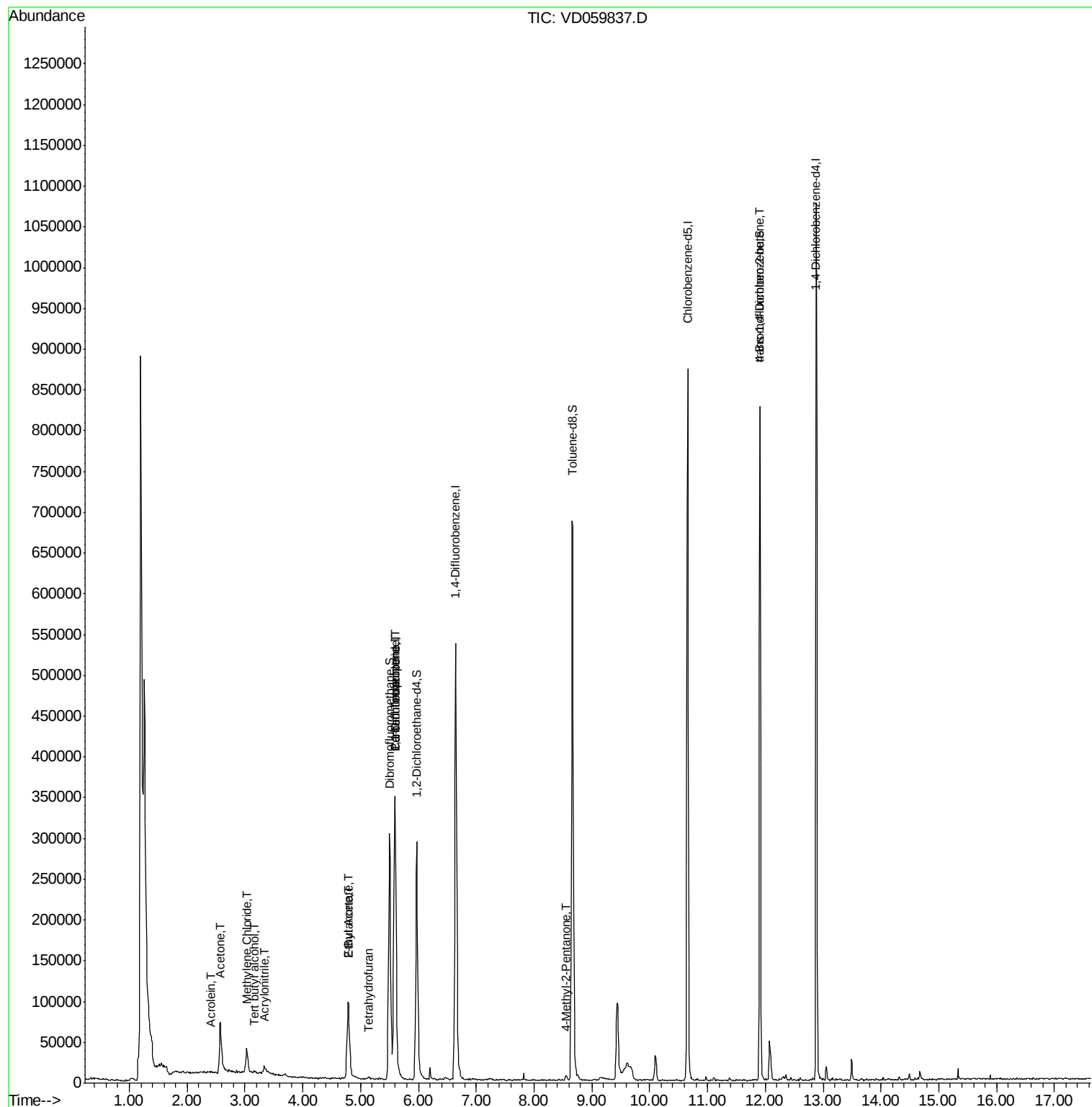
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.15	59	1107	10.324	ug/l #	1
13) Acrolein	2.43	56	608	6.586	ug/l #	21
15) Acrylonitrile	3.32	53	1073	2.162	ug/l #	17
16) Acetone	2.58	43	122864	252.718	ug/l	98
17) Carbon Disulfide	2.72	76	1234	Below Cal	#	76
18) Methyl Acetate	2.89	43	1200	Below Cal	#	65
20) Methylene Chloride	3.03	84	13234	2.641	ug/l	92
25) 2-Butanone	4.78	43	79876	54.355	ug/l	97
29) Tetrahydrofuran	5.15	42	3281	4.410	ug/l #	48
31) Cyclohexane	5.59	56	8616	Below Cal	#	1
36) 1,1-Dichloropropene	5.59	75	25528	5.216	ug/l #	46
37) Ethyl Acetate	4.78	43	79319	21.864	ug/l #	75
38) Carbon Tetrachloride	5.60	117	28902	5.917	ug/l #	15
51) 4-Methyl-2-Pentanone	8.55	43	7436	2.217	ug/l #	84
67) Ethyl Benzene	10.82	91	1346	Below Cal		90
80) 1,3,5-Trimethylbenzene	12.30	105	451	Below Cal	#	30
81) trans-1,4-Dichloro-2-buten	11.91	75	93775	78.760	ug/l #	10
82) 4-Chlorotoluene	12.30	91	1475	Below Cal		94
89) n-Butylbenzene	13.18	91	794	Below Cal	#	82
91) 1,2-Dichlorobenzene	13.18	146	801	Below Cal	#	69

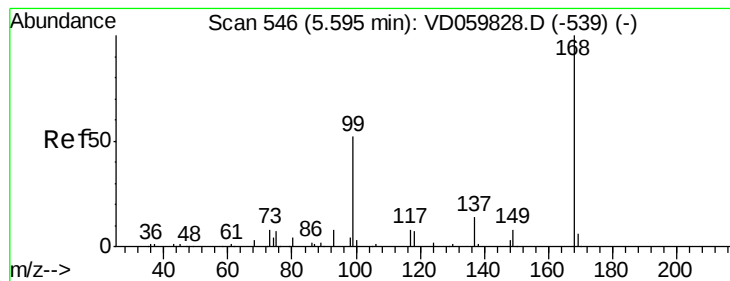
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 5.60 min Scan# 546

Delta R.T. 0.00 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

Instrument :

MSVOA_D

ClientSampleId :

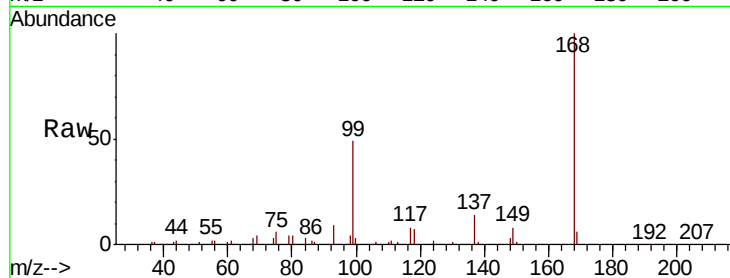
RA-081318-FL-017RE

Tgt Ion:168 Resp: 362435

Ion Ratio Lower Upper

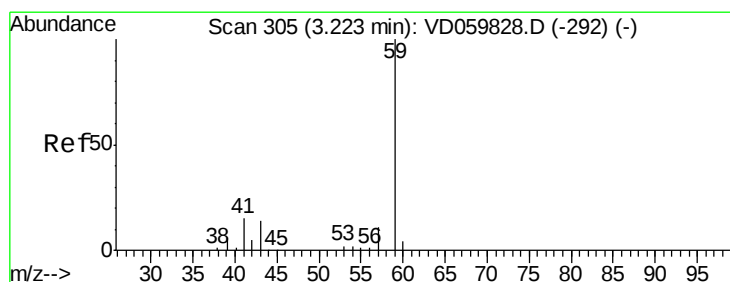
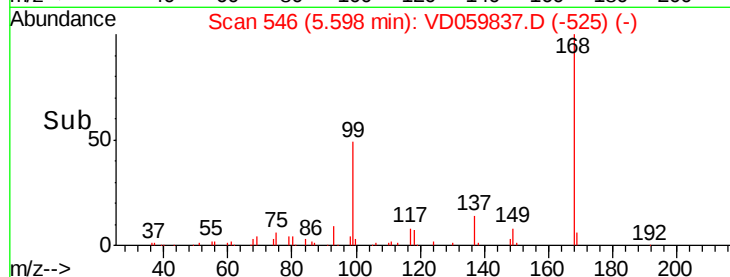
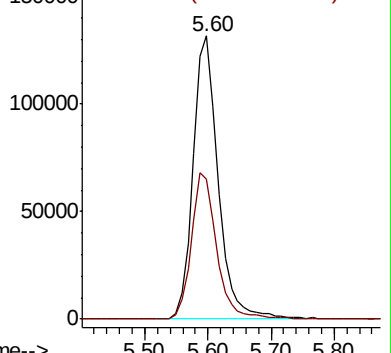
168 100

99 49.3 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: 10.324 ug/l

RT: 3.15 min Scan# 297

Delta R.T. -0.08 min

Lab File: VD059837.D

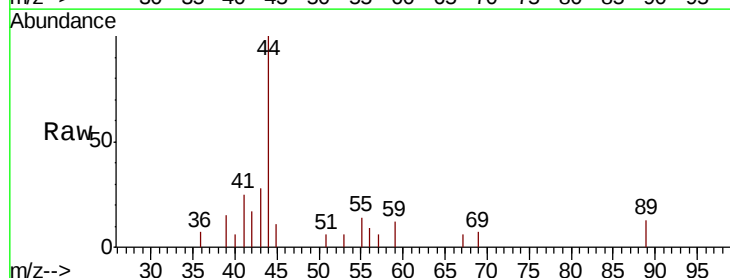
Acq: 20 Aug 2018 18:15

Tgt Ion: 59 Resp: 1107

Ion Ratio Lower Upper

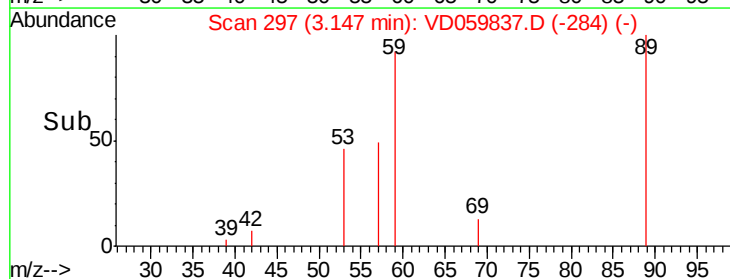
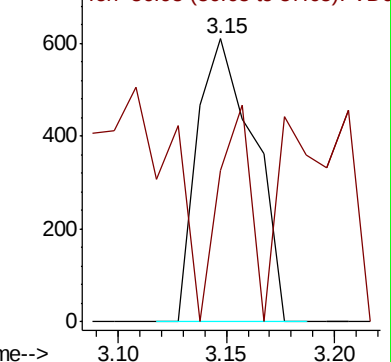
59 100

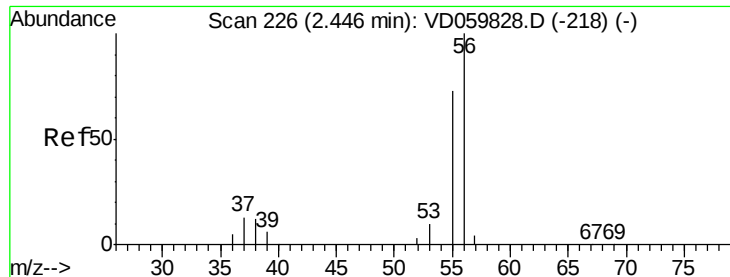
57 53.7 10.3 15.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 6.586 ug/l

RT: 2.43 min Scan# 224

Delta R.T. -0.02 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

Instrument :

MSVOA_D

ClientSampleId :

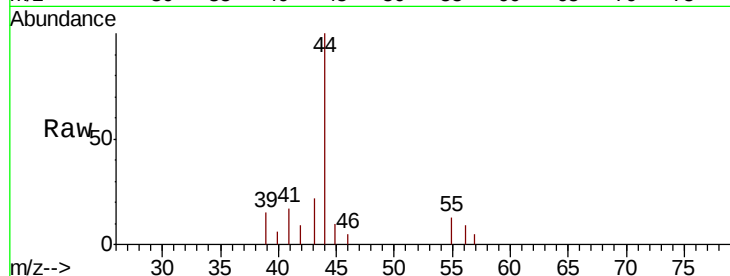
RA-081318-FL-017RE

Tgt Ion: 56 Resp: 608

Ion Ratio Lower Upper

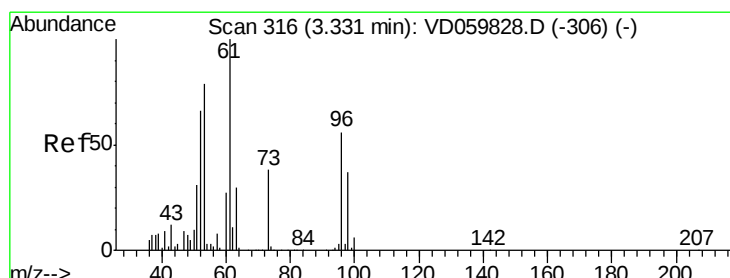
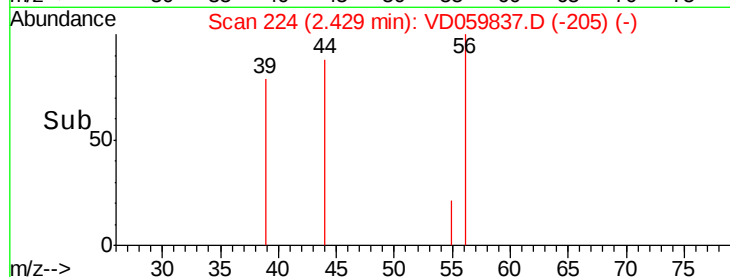
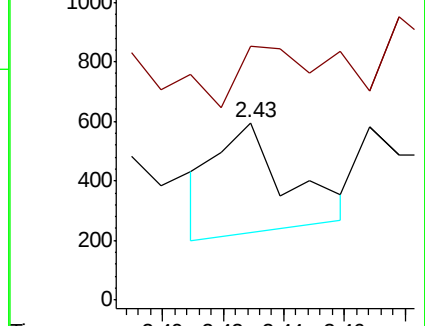
56 100

55 143.4 60.4 90.6#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#15

Acrylonitrile

Concen: 2.162 ug/l

RT: 3.32 min Scan# 315

Delta R.T. -0.01 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

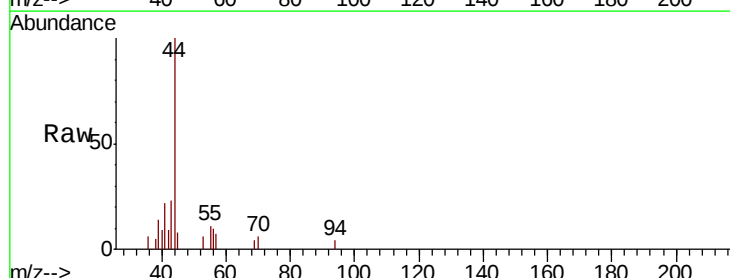
Tgt Ion: 53 Resp: 1073

Ion Ratio Lower Upper

53 100

52 0.0 66.8 100.2#

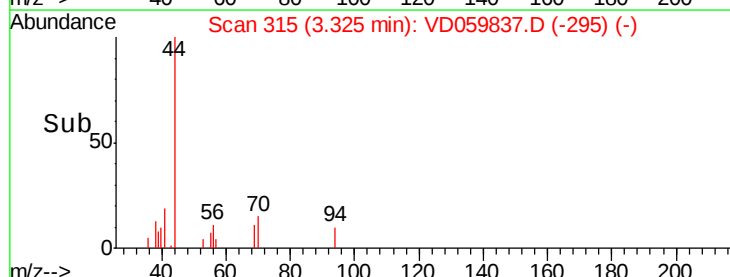
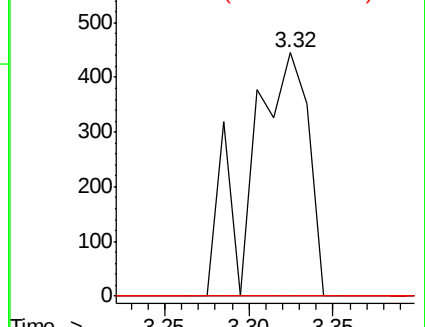
51 0.0 31.6 47.4#

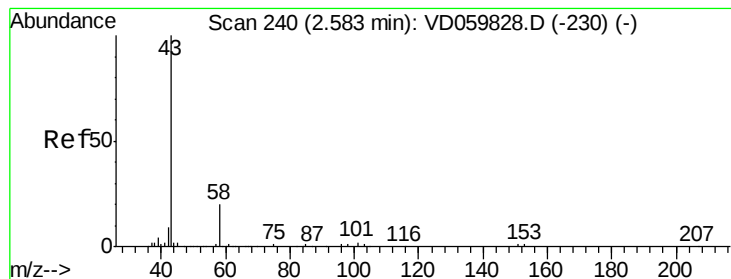


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 252.718 ug/l

RT: 2.58 min Scan# 239

Delta R.T. -0.01 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

Instrument :

MSVOA_D

ClientSampleId :

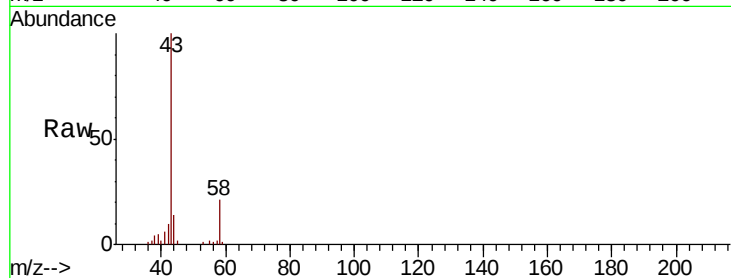
RA-081318-FL-017RE

Tgt Ion: 43 Resp: 122864

Ion Ratio Lower Upper

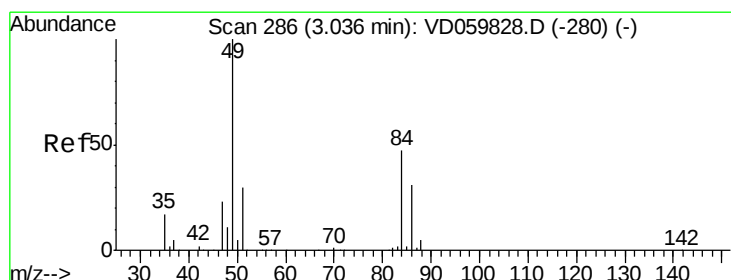
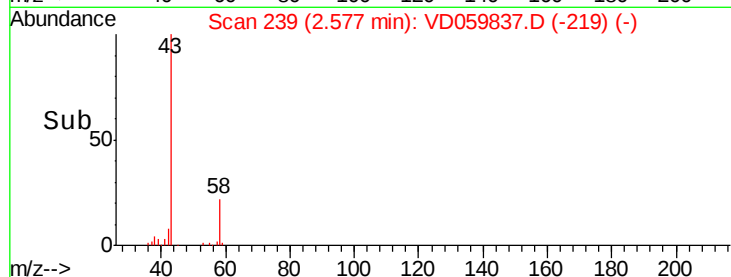
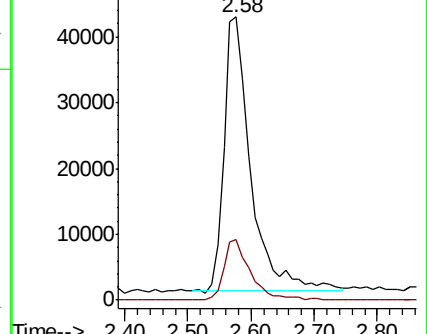
43 100

58 21.2 16.2 24.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 2.641 ug/l

RT: 3.03 min Scan# 285

Delta R.T. -0.01 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

Tgt Ion: 84 Resp: 13234

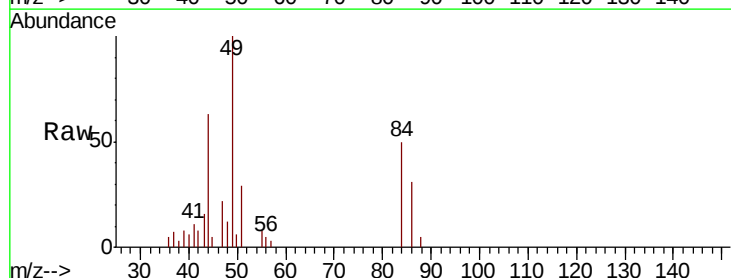
Ion Ratio Lower Upper

84 100

49 200.0 170.4 255.6

51 57.3 51.4 77.0

86 62.3 52.4 78.6

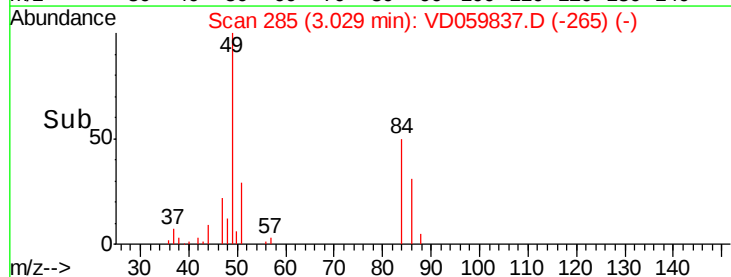
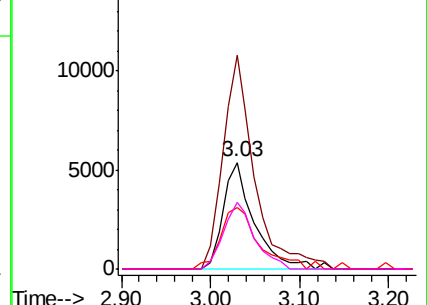


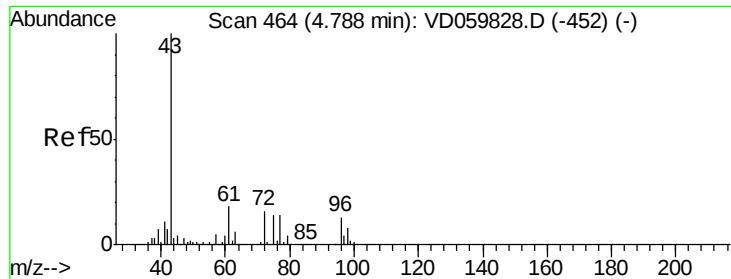
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 54.355 ug/l

RT: 4.78 min Scan# 463

Delta R.T. -0.01 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

Instrument :

MSVOA_D

ClientSampleId :

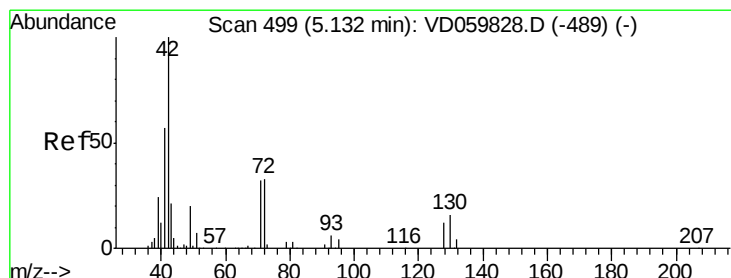
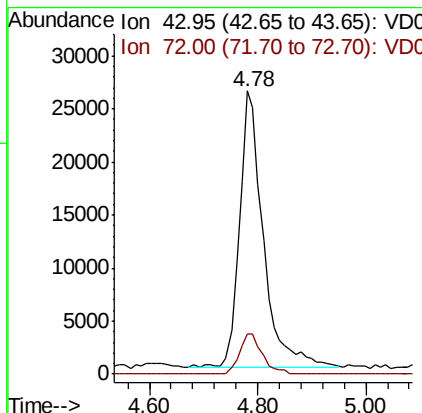
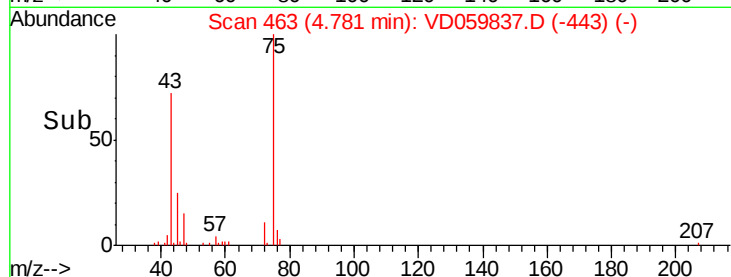
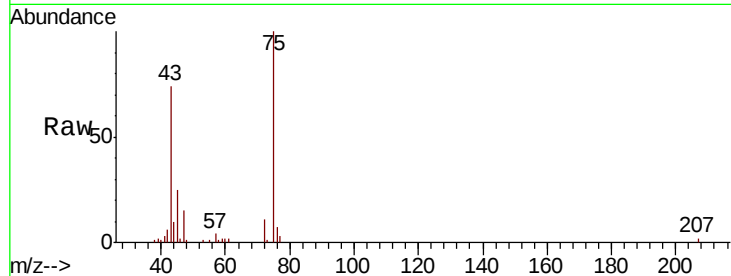
RA-081318-FL-017RE

Tgt Ion: 43 Resp: 79876

Ion Ratio Lower Upper

43 100

72 14.3 12.4 18.6



#29

Tetrahydrofuran

Concen: 4.410 ug/l

RT: 5.15 min Scan# 500

Delta R.T. 0.01 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

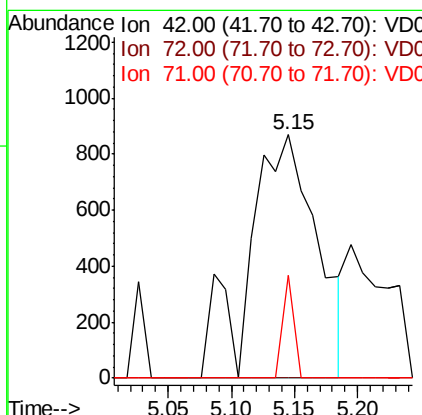
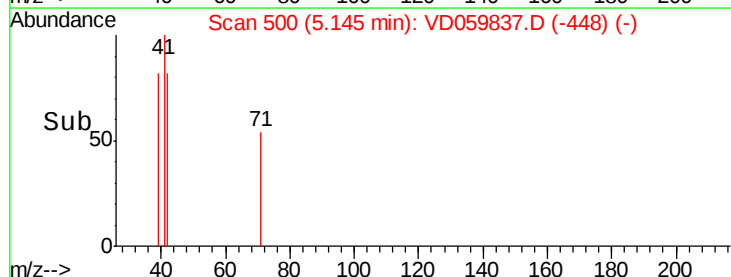
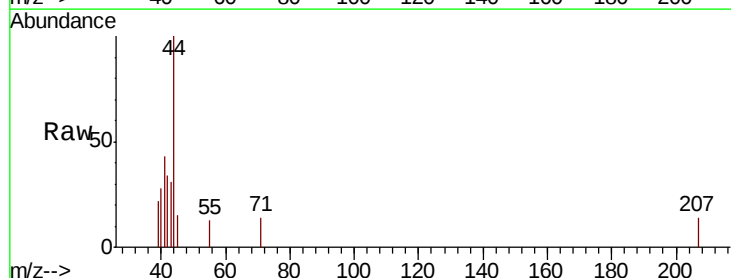
Tgt Ion: 42 Resp: 3281

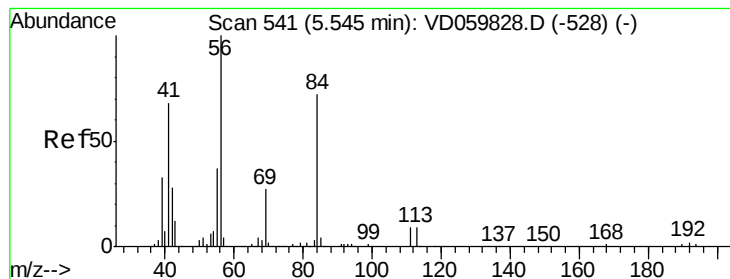
Ion Ratio Lower Upper

42 100

72 0.0 25.8 38.6#

71 6.6 25.7 38.5#





#31

Cyclohexane

Concen: Below Cal

RT: 5.59 min Scan# 545

Delta R.T. 0.04 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

Instrument :

MSVOA_D

ClientSampleId :

RA-081318-FL-017RE

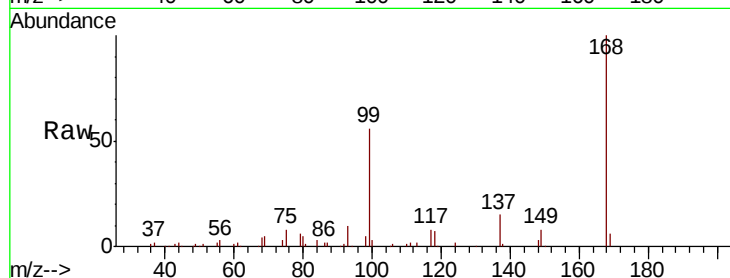
Tgt Ion: 56 Resp: 8616

Ion Ratio Lower Upper

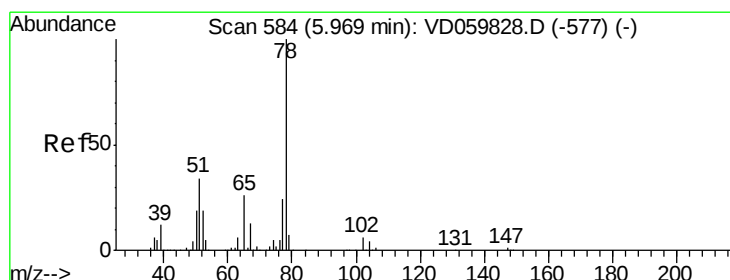
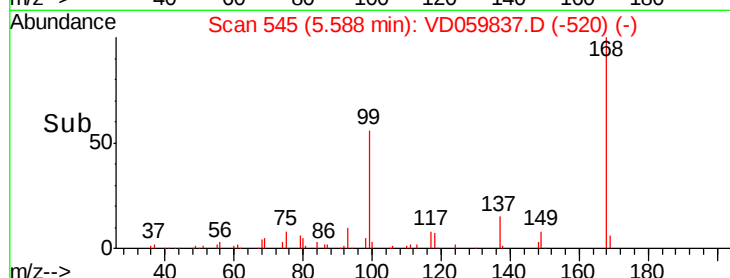
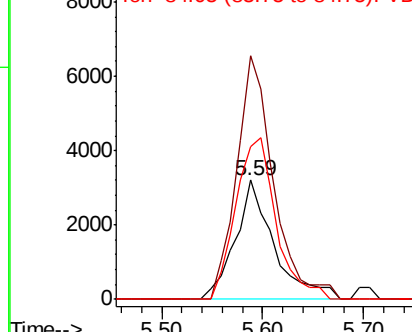
56 100

69 204.6 21.7 32.5#

84 128.7 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: 5.97 min Scan# 584

Delta R.T. 0.00 min

Lab File: VD059837.D

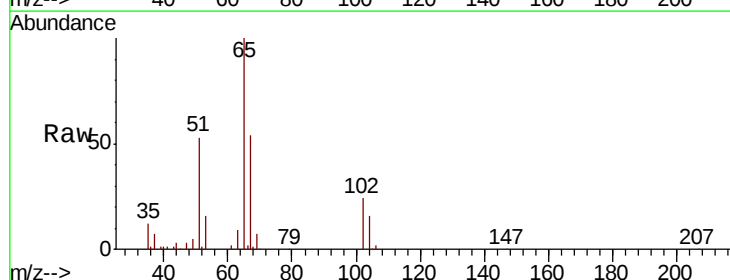
Acq: 20 Aug 2018 18:15

Tgt Ion: 65 Resp: 238724

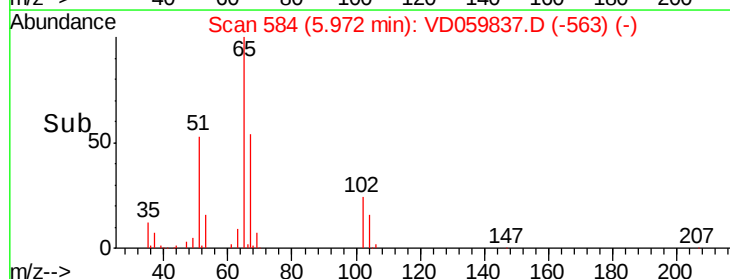
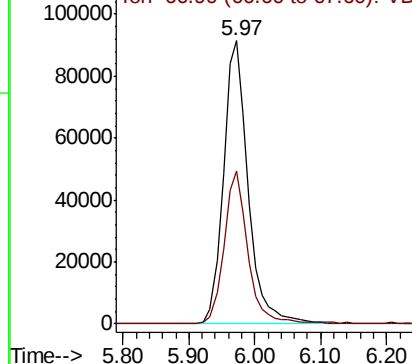
Ion Ratio Lower Upper

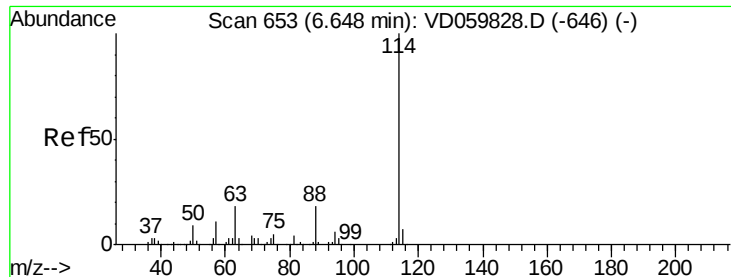
65 100

67 54.0 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: 6.64 min Scan# 652

Delta R.T. -0.01 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

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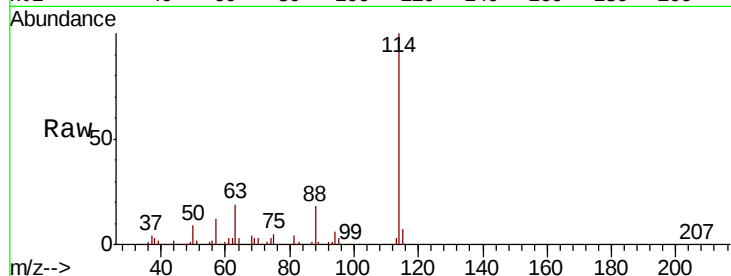
Tgt Ion:114 Resp: 577045

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.0

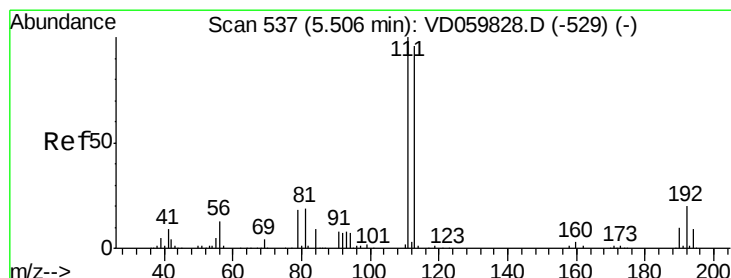
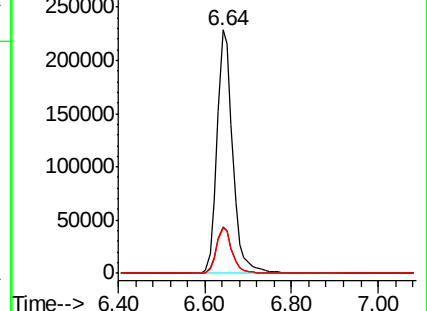
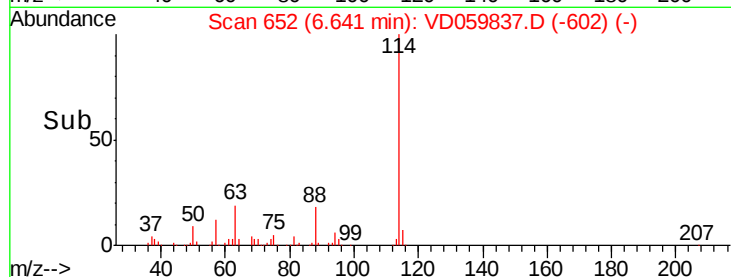
88 18.4 0.0 37.0



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: 5.50 min Scan# 536

Delta R.T. -0.01 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

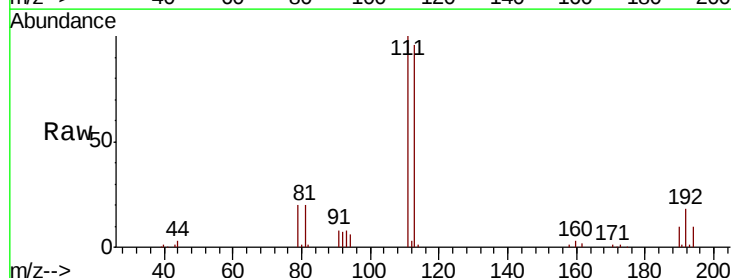
Tgt Ion:113 Resp: 251990

Ion Ratio Lower Upper

113 100

111 103.6 83.3 124.9

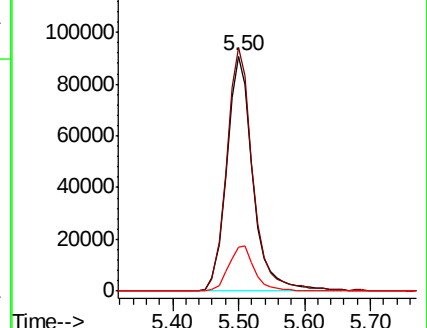
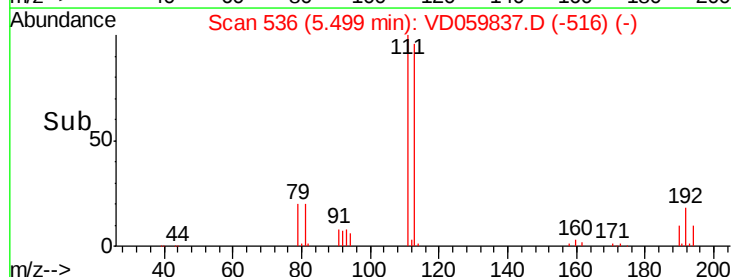
192 18.5 16.8 25.2

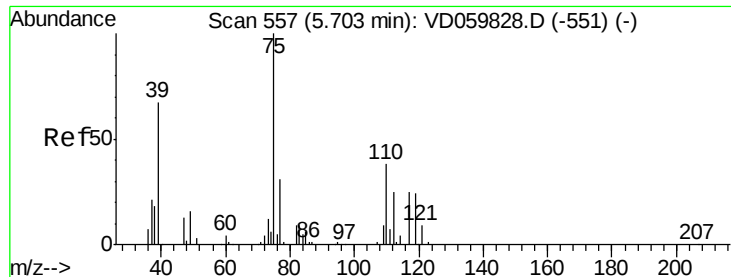


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

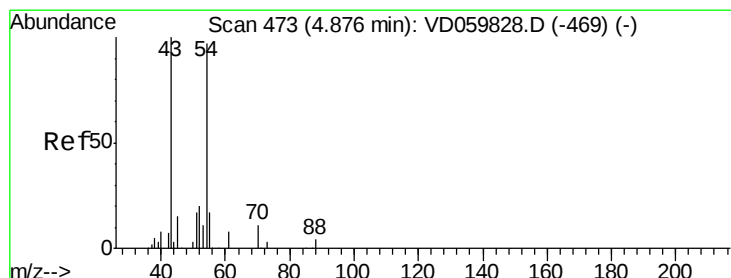
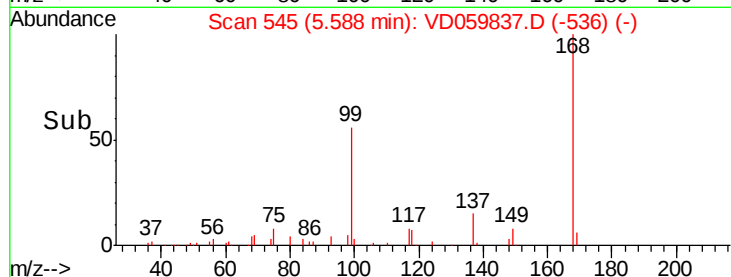
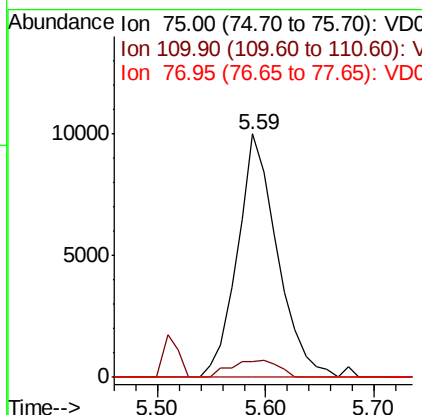
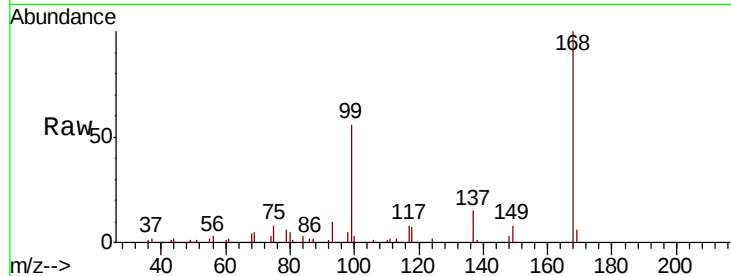




#36
 1,1-Dichloropropene
 Concen: 5.216 ug/l
 RT: 5.59 min Scan# 545
 Delta R.T. -0.12 min
 Lab File: VD059837.D
 Acq: 20 Aug 2018 18:15

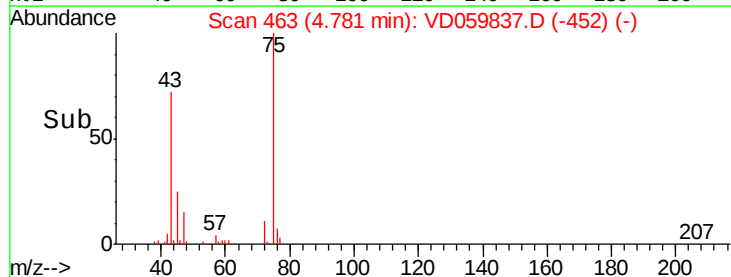
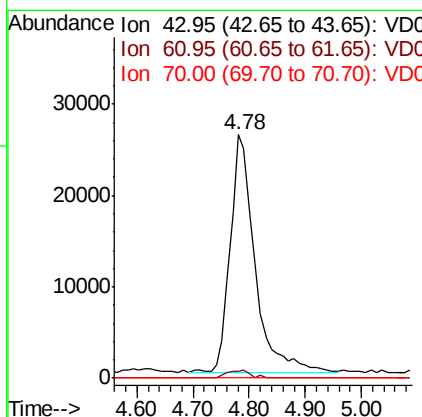
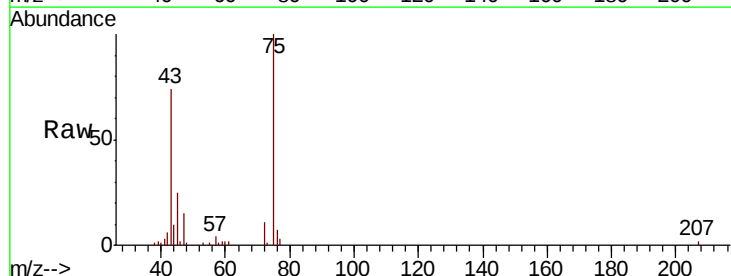
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081318-FL-017RE

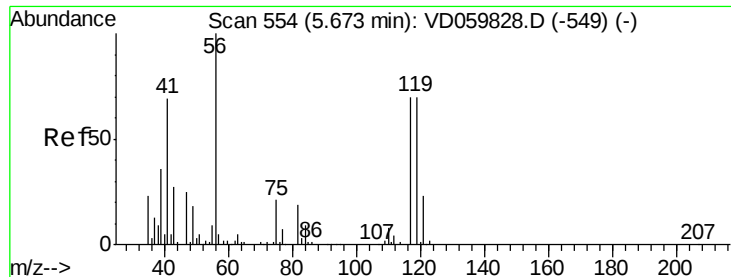
Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.5	18.8	56.4#
77	0.0	24.9	37.3#



#37
 Ethyl Acetate
 Concen: 21.864 ug/l
 RT: 4.78 min Scan# 463
 Delta R.T. -0.10 min
 Lab File: VD059837.D
 Acq: 20 Aug 2018 18:15

Tgt Ion	Ratio	Lower	Upper
43	100		
61	2.6	10.4	15.6#
70	0.0	6.2	9.2#





#38

Carbon Tetrachloride

Concen: 5.917 ug/l

RT: 5.60 min Scan# 546

Delta R.T. -0.08 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

Instrument :

MSVOA_D

ClientSampleId :

RA-081318-FL-017RE

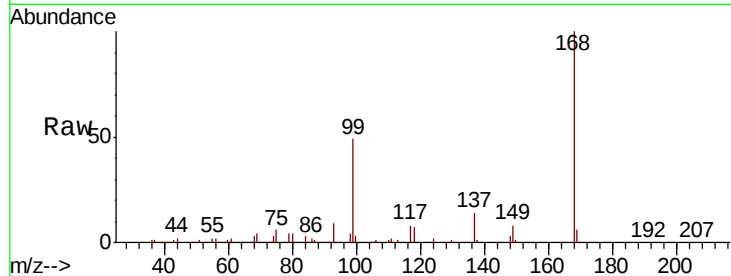
Tgt Ion:117 Resp: 28902

Ion Ratio Lower Upper

117 100

119 4.6 77.0 115.4#

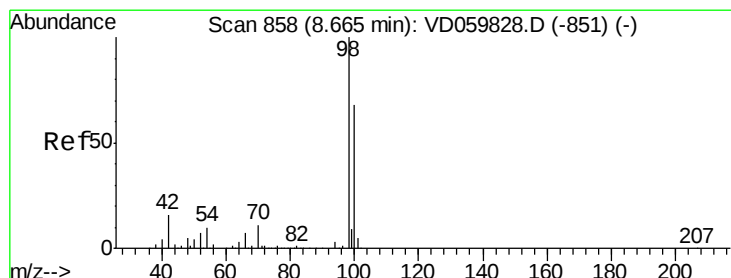
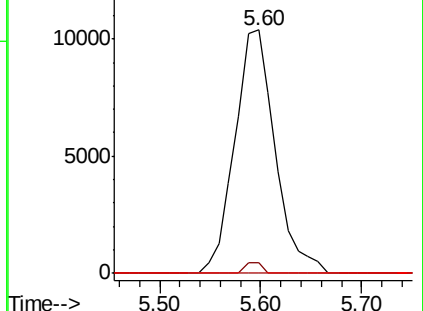
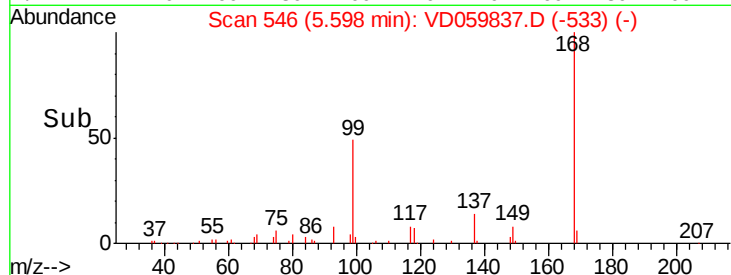
121 0.0 24.7 37.1#



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. 0.00 min

Lab File: VD059837.D

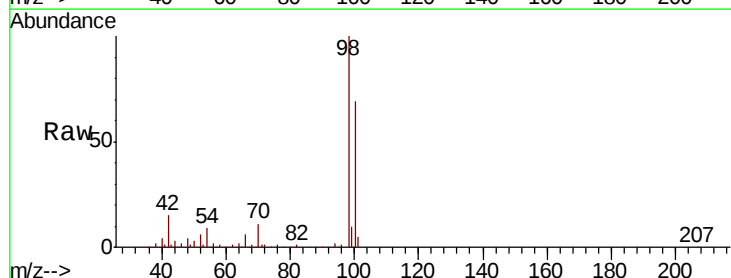
Acq: 20 Aug 2018 18:15

Tgt Ion: 98 Resp: 592230

Ion Ratio Lower Upper

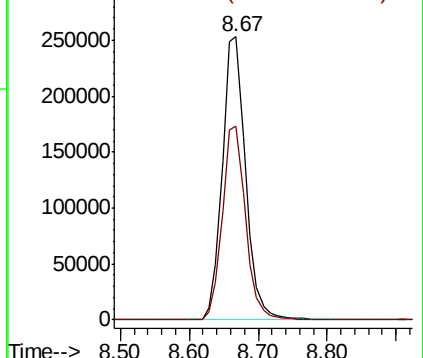
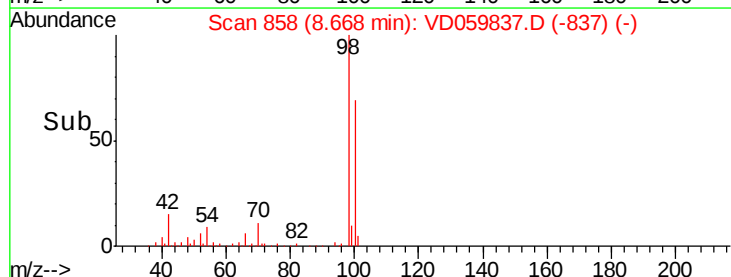
98 100

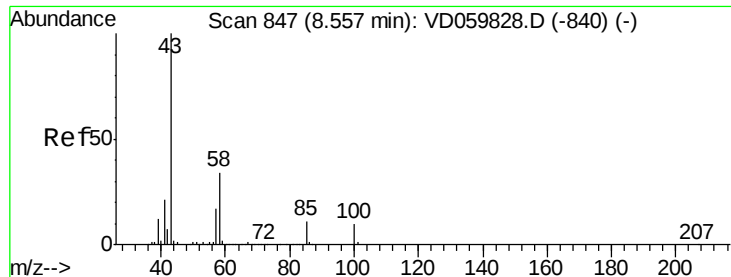
100 68.6 55.0 82.4



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

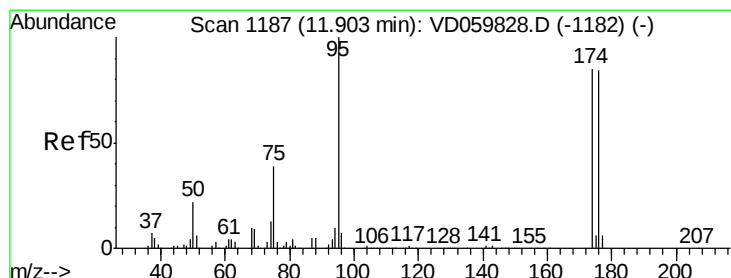
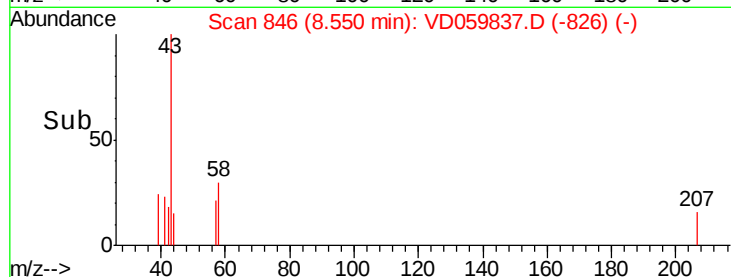
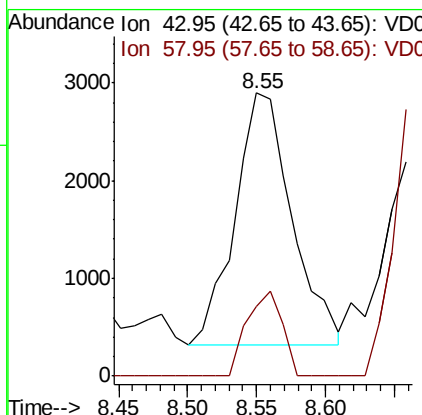
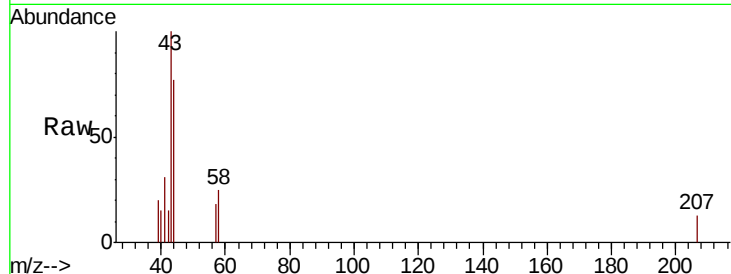




#51
 4-Methyl-2-Pentanone
 Concen: 2.217 ug/l
 RT: 8.55 min Scan# 846
 Delta R.T. -0.01 min
 Lab File: VD059837.D
 Acq: 20 Aug 2018 18:15

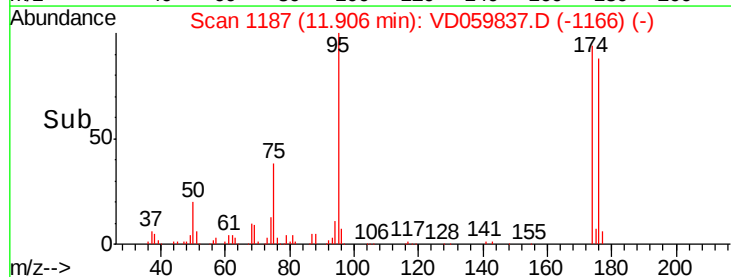
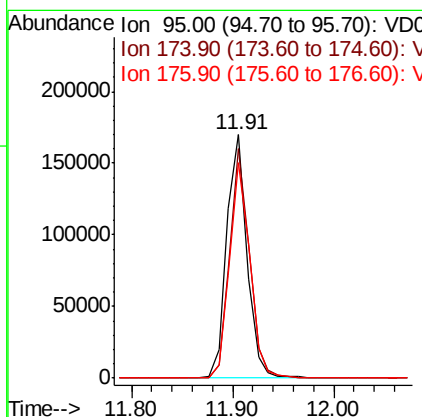
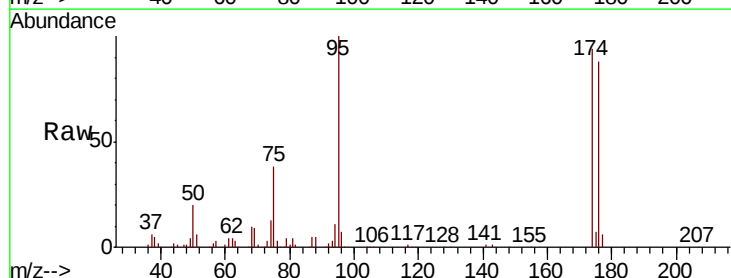
Instrument :
 MSVOA_D
 ClientSampleId :
 RA-081318-FL-017RE

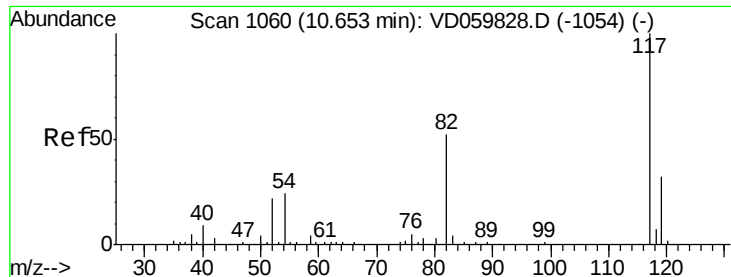
Tgt Ion: 43 Resp: 7436
 Ion Ratio Lower Upper
 43 100
 58 24.7 27.0 40.4#



#62
 4-Bromofluorobenzene
 Concen: N.D. ug/l
 RT: 11.91 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VD059837.D
 Acq: 20 Aug 2018 18:15

Tgt Ion: 95 Resp: 236422
 Ion Ratio Lower Upper
 95 100
 174 94.1 0.0 169.2
 176 88.4 0.0 168.0

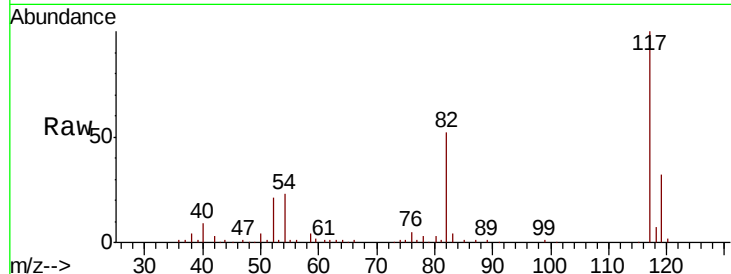




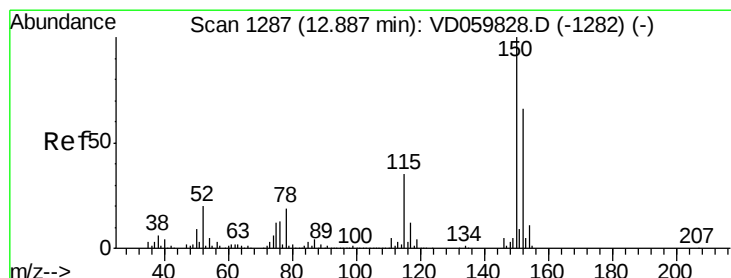
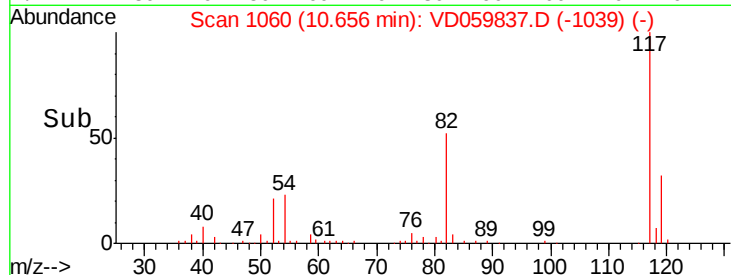
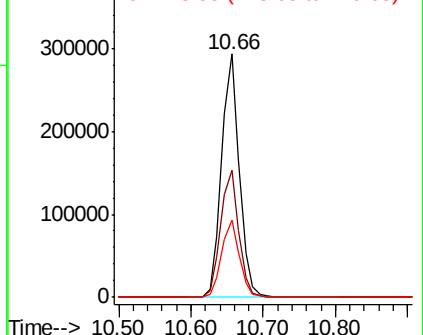
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.66 min Scan# 1060
Delta R.T. 0.00 min
Lab File: VD059837.D
Acq: 20 Aug 2018 18:15

Instrument :
MSVOA_D
ClientSampleId :
RA-081318-FL-017RE

Tgt Ion:117 Resp: 496797
Ion Ratio Lower Upper
117 100
82 52.3 41.6 62.4
119 31.6 25.6 38.4

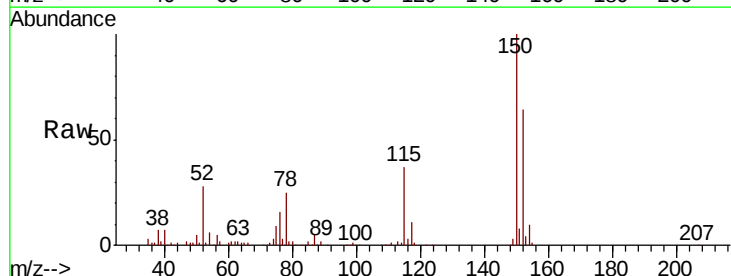


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

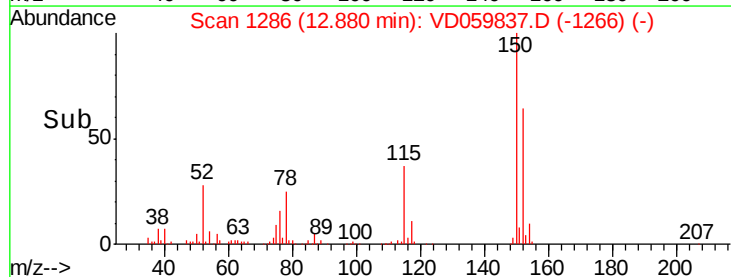
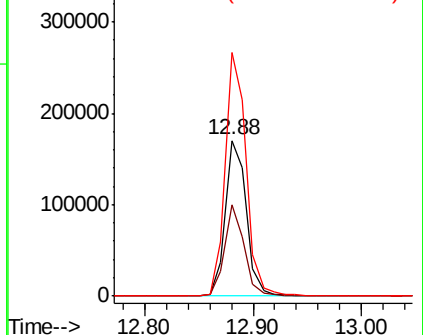


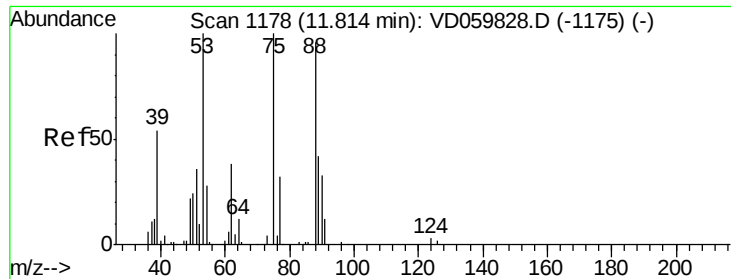
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.88 min Scan# 1286
Delta R.T. -0.01 min
Lab File: VD059837.D
Acq: 20 Aug 2018 18:15

Tgt Ion:152 Resp: 230220
Ion Ratio Lower Upper
152 100
115 58.6 26.9 80.6
150 156.5 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: 78.760 ug/l

RT: 11.91 min Scan# 1187

Delta R.T. 0.09 min

Lab File: VD059837.D

Acq: 20 Aug 2018 18:15

Instrument :

MSVOA_D

ClientSampleId :

RA-081318-FL-017RE

Tgt Ion: 75 Resp: 93775

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

89 0.0 33.9 50.9#

