

Data File : VD059864.D
Acq On : 21 Aug 2018 19:12
Operator : JC/SY
Sample : J4559-02
Misc : 5.10g/5ml/MSVOA_D/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-FL-046

Quant Time: Aug 22 01:13:20 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	1002667	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.66	114	1386548	50.00	ug/l	0.01
63) Chlorobenzene-d5	10.66	117	1063337	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.89	152	459805	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.98	65	463233	57.72	ug/l	0.01
Spiked Amount	50.000		Recovery	=	115.44%	
35) Dibromofluoromethane	5.52	113	595194	58.03	ug/l	0.01
Spiked Amount	50.000		Recovery	=	116.06%	
50) Toluene-d8	8.68	98	1488465	53.82	ug/l	0.01
Spiked Amount	50.000		Recovery	=	107.64%	
62) 4-Bromofluorobenzene	11.91	95	526522	49.62	ug/l	0.01
Spiked Amount	50.000		Recovery	=	99.24%	

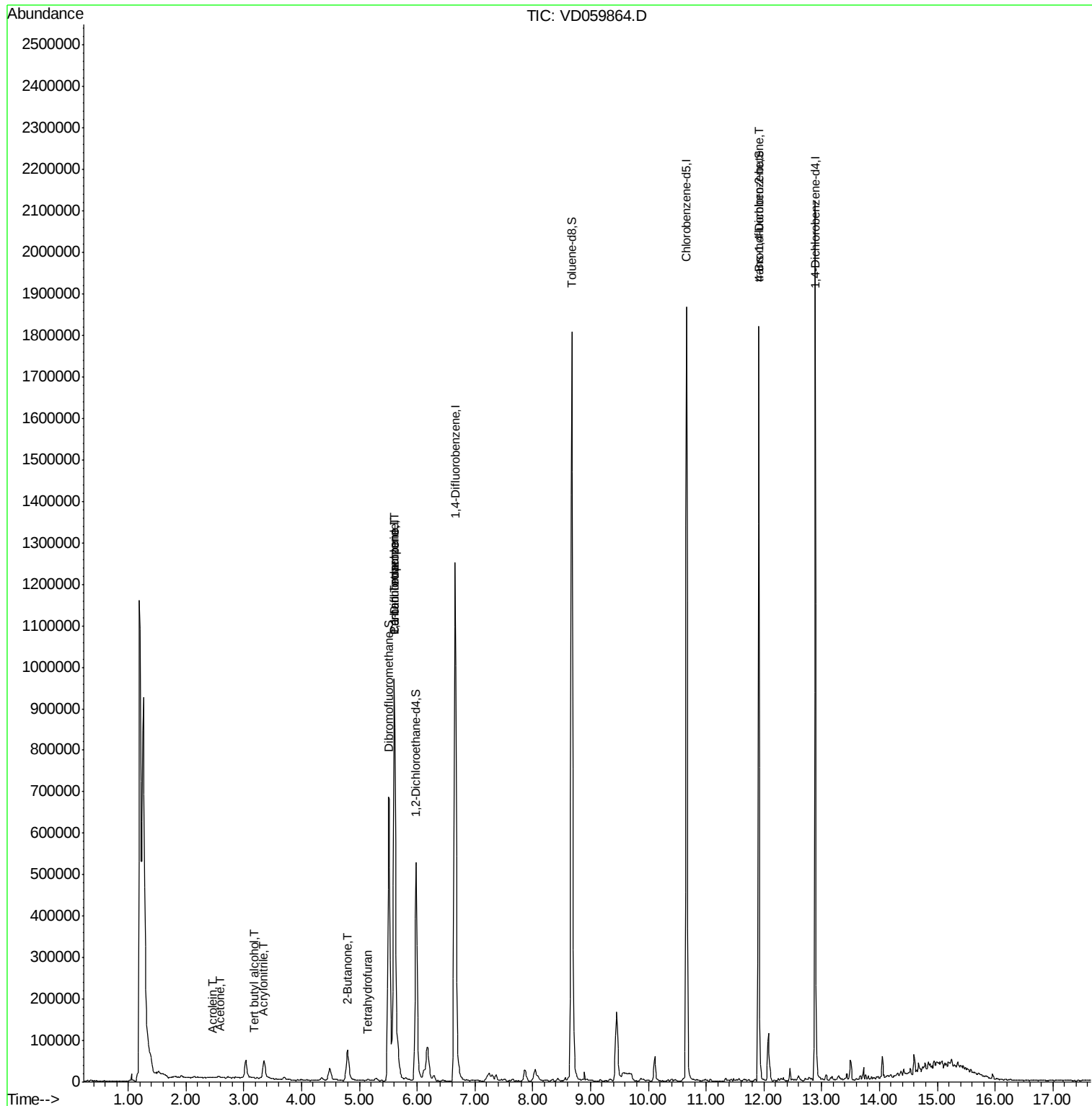
Target Compounds			Qvalue			
11) Tert butyl alcohol	3.16	59	762	2.569	ug/l #	67
13) Acrolein	2.48	56	217	1.784	ug/l #	1
15) Acrylonitrile	3.34	53	1383	1.007	ug/l #	29
16) Acetone	2.58	43	10213	7.593	ug/l #	87
17) Carbon Disulfide	2.73	76	2776	Below Cal	#	76
18) Methyl Acetate	2.91	43	1914	Below Cal	#	65
20) Methylene Chloride	3.04	84	15720	Below Cal		92
25) 2-Butanone	4.80	43	12763	3.139	ug/l #	63
29) Tetrahydrofuran	5.15	42	4879	2.370	ug/l #	68
31) Cyclohexane	5.60	56	25869	Below Cal	#	1
36) 1,1-Dichloropropene	5.60	75	69548	5.914	ug/l #	46
38) Carbon Tetrachloride	5.60	117	79416	6.767	ug/l #	15
67) Ethyl Benzene	10.83	91	1256	Below Cal	#	70
80) 1,3,5-Trimethylbenzene	12.30	105	2525	Below Cal		88
81) trans-1,4-Dichloro-2-buten	11.91	75	211000	88.730	ug/l #	10
82) 4-Chlorotoluene	12.31	91	1074	Below Cal	#	48
89) n-Butylbenzene	13.18	91	1708	Below Cal	#	77
91) 1,2-Dichlorobenzene	13.17	146	450	Below Cal	#	25

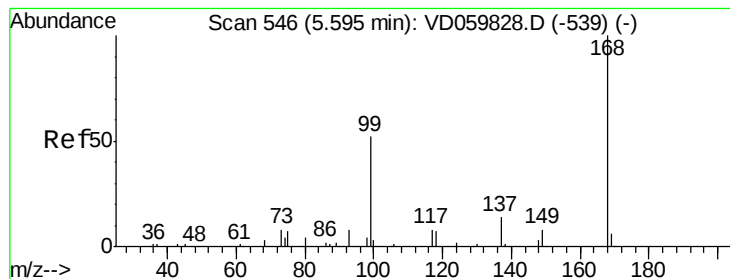
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD059864.D

Acq: 21 Aug 2018 19:12

Instrument :

MSVOA_D

ClientSampleId :

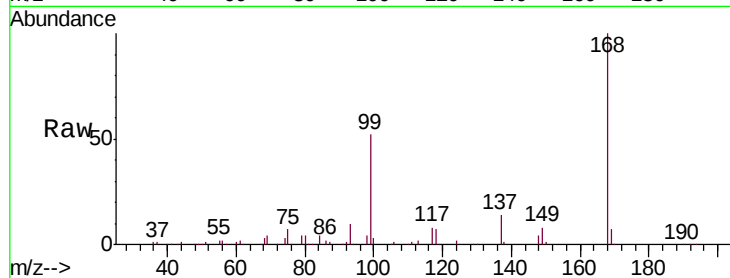
RA-081718-FL-046

Tgt Ion:168 Resp: 1002667

Ion Ratio Lower Upper

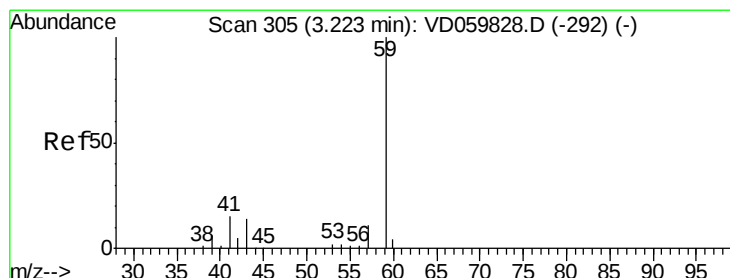
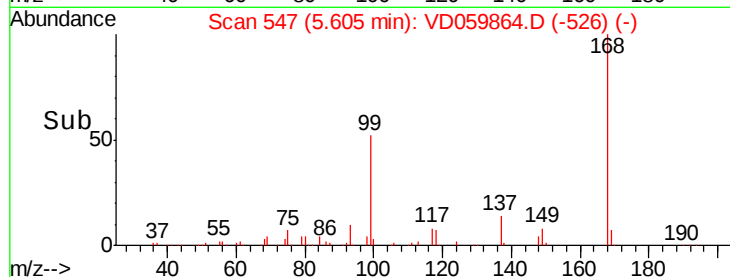
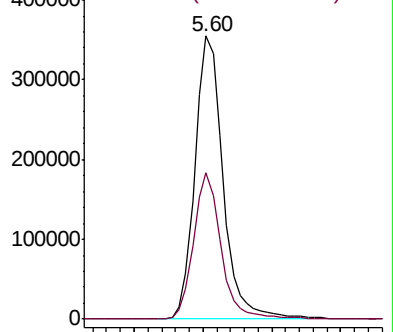
168 100

99 51.5 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: 2.569 ug/l

RT: 3.16 min Scan# 299

Delta R.T. -0.06 min

Lab File: VD059864.D

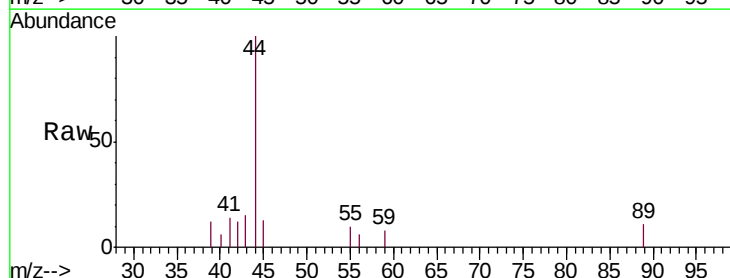
Acq: 21 Aug 2018 19:12

Tgt Ion: 59 Resp: 762

Ion Ratio Lower Upper

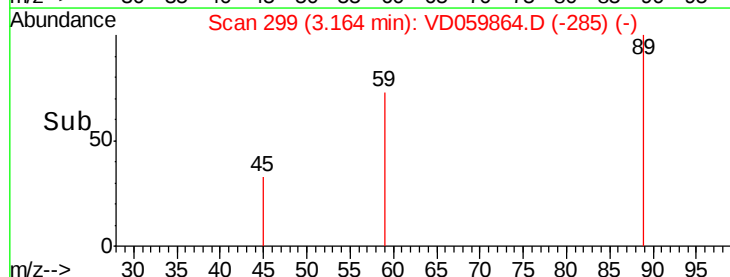
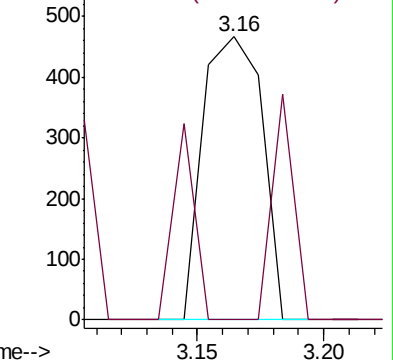
59 100

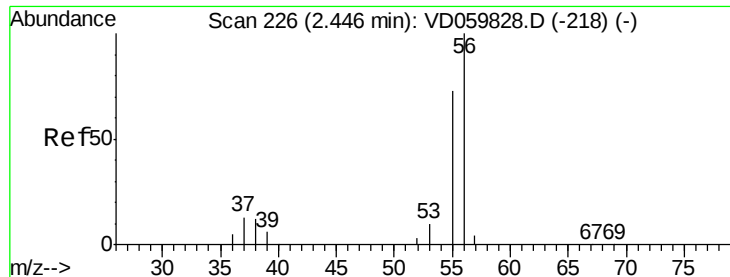
57 0.0 10.3 15.5#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC





#13

Acrolein

Concen: 1.784 ug/l

RT: 2.48 min Scan# 229

Delta R.T. 0.03 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

Instrument :

MSVOA_D

ClientSampleId :

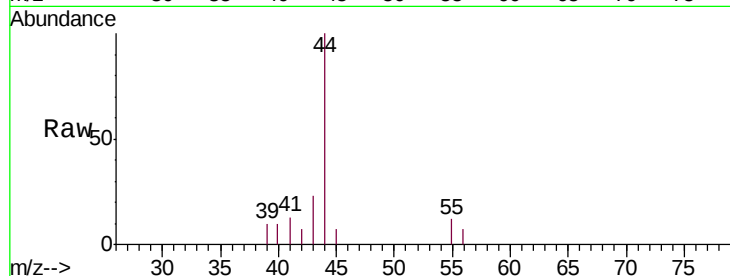
RA-081718-FL-046

Tgt Ion: 56 Resp: 217

Ion Ratio Lower Upper

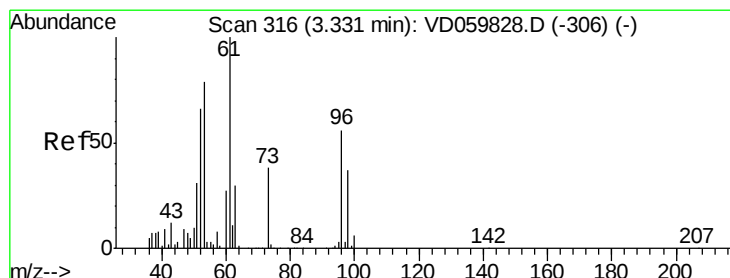
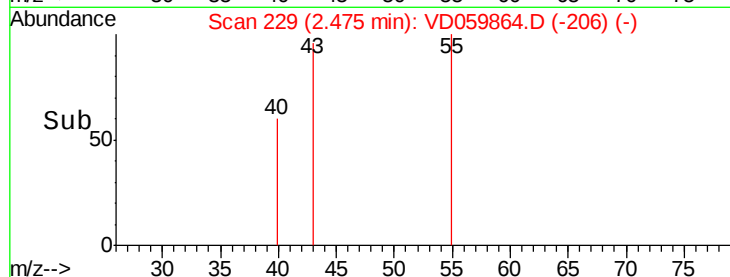
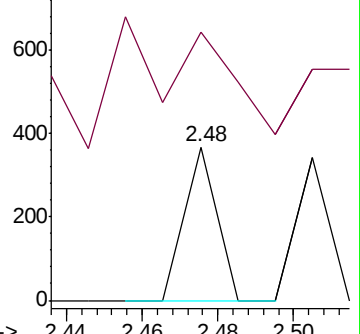
56 100

55 174.9 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: 1.007 ug/l

RT: 3.34 min Scan# 317

Delta R.T. 0.01 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

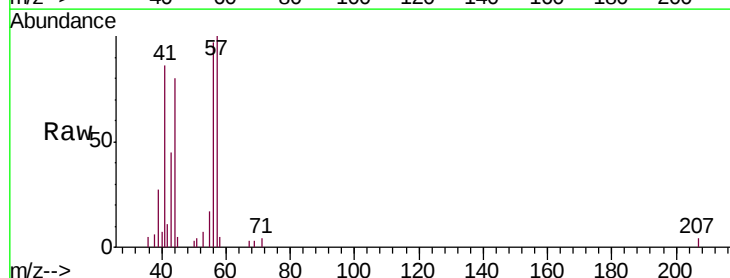
Tgt Ion: 53 Resp: 1383

Ion Ratio Lower Upper

53 100

52 0.0 66.8 100.2#

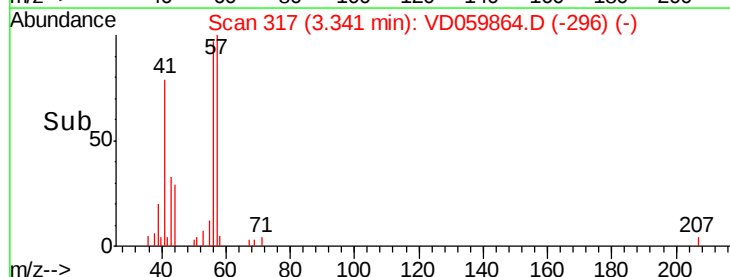
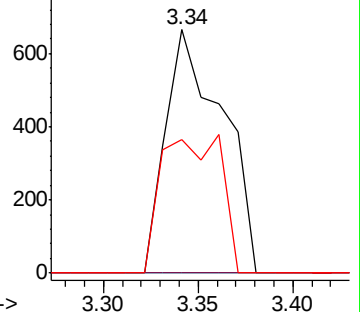
51 54.7 31.6 47.4#

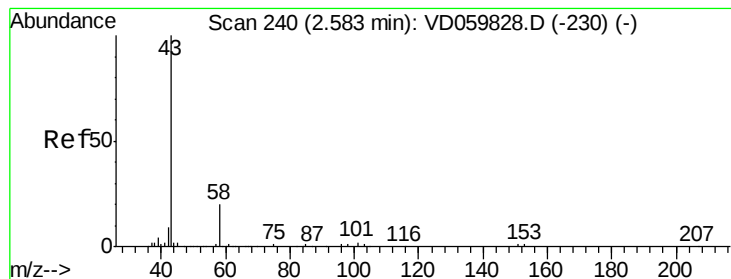


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 7.593 ug/l

RT: 2.58 min Scan# 240

Delta R.T. 0.00 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

Instrument :

MSVOA_D

ClientSampleId :

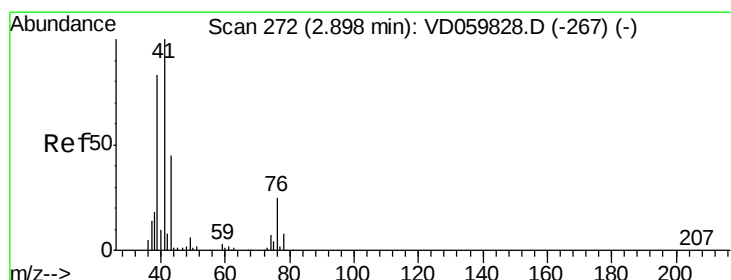
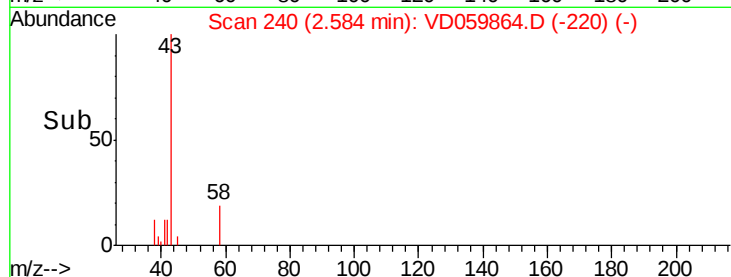
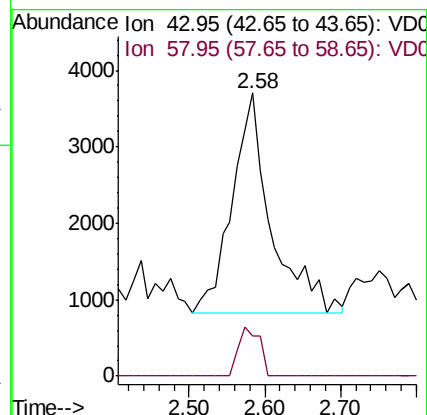
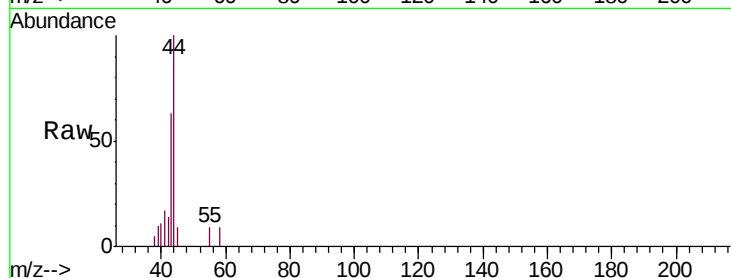
RA-081718-FL-046

Tgt Ion: 43 Resp: 10213

Ion Ratio Lower Upper

43 100

58 14.2 16.2 24.2#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.91 min Scan# 273

Delta R.T. 0.01 min

Lab File: VD059864.D

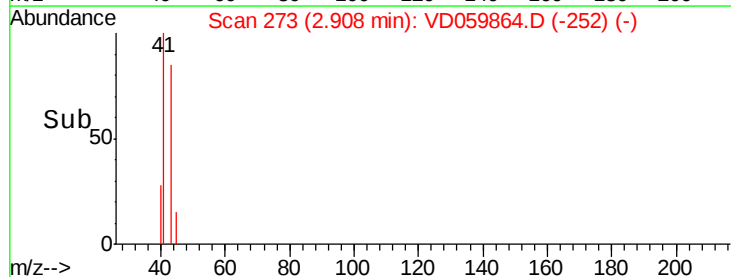
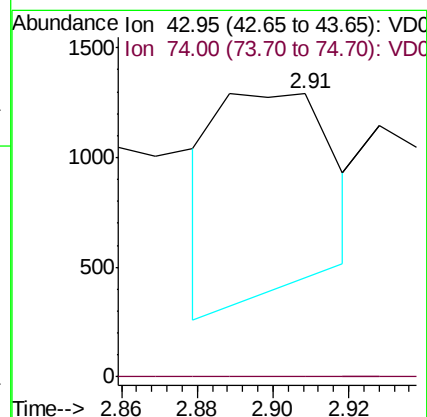
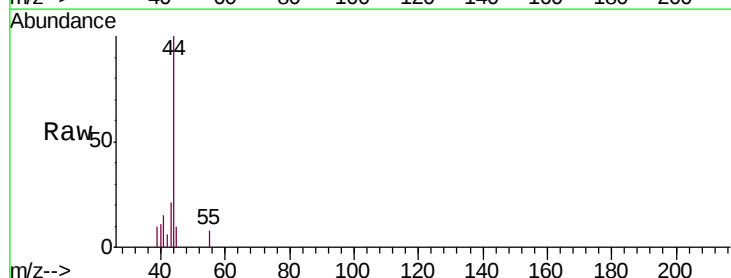
Acq: 21 Aug 2018 19:12

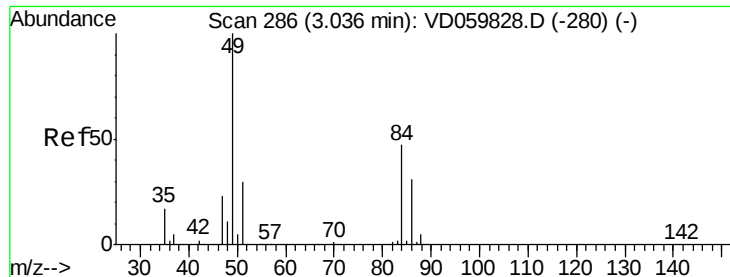
Tgt Ion: 43 Resp: 1914

Ion Ratio Lower Upper

43 100

74 0.0 11.4 17.0#

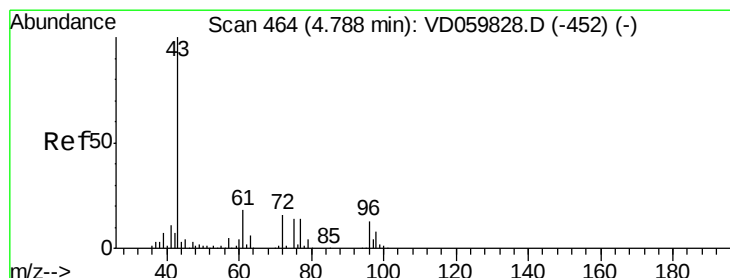
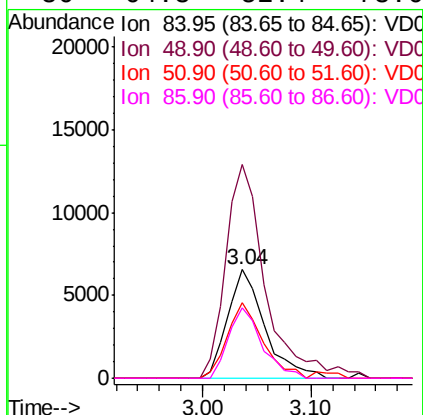
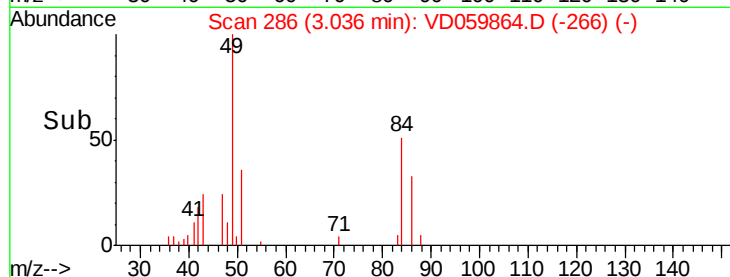
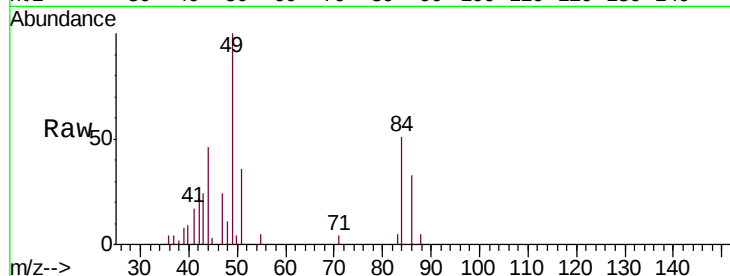




#20
Methylene Chloride
Concen: Below Cal
RT: 3.04 min Scan# 286
Delta R.T. 0.00 min
Lab File: VD059864.D
Acq: 21 Aug 2018 19:12

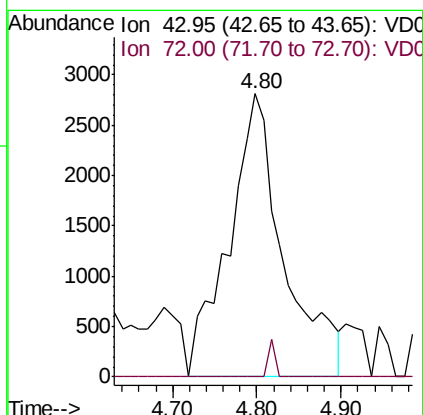
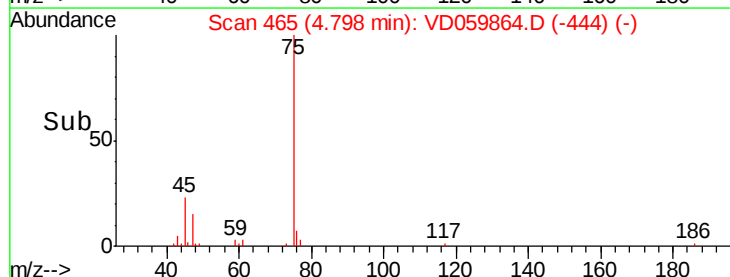
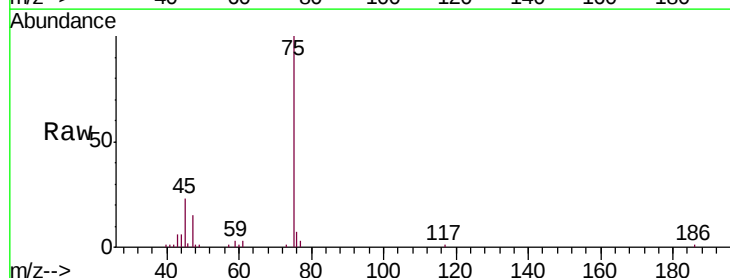
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-FL-046

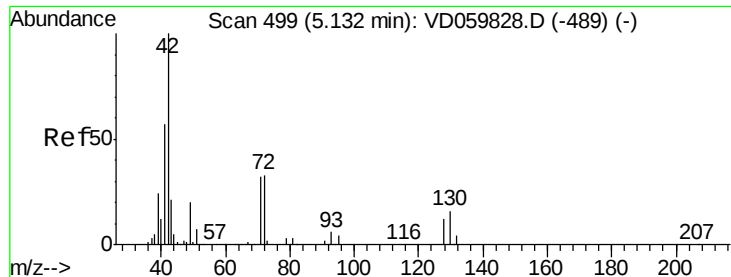
Tgt Ion: 84 Resp: 15720
Ion Ratio Lower Upper
84 100
49 196.3 170.4 255.6
51 69.8 51.4 77.0
86 64.8 52.4 78.6



#25
2-Butanone
Concen: 3.139 ug/l
RT: 4.80 min Scan# 465
Delta R.T. 0.01 min
Lab File: VD059864.D
Acq: 21 Aug 2018 19:12

Tgt Ion: 43 Resp: 12763
Ion Ratio Lower Upper
43 100
72 0.0 12.4 18.6#

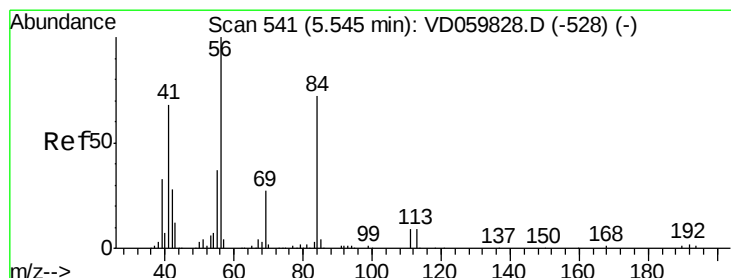
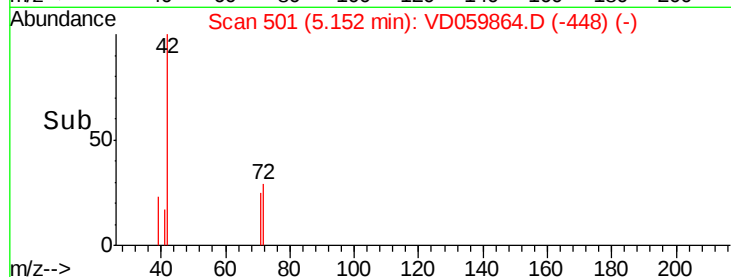
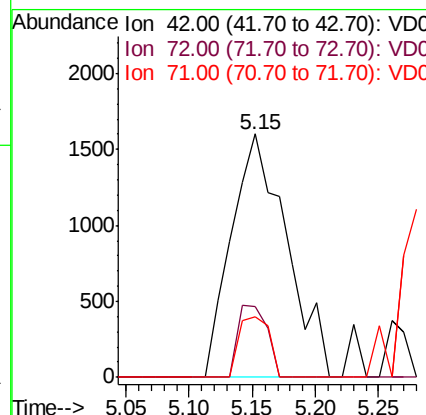
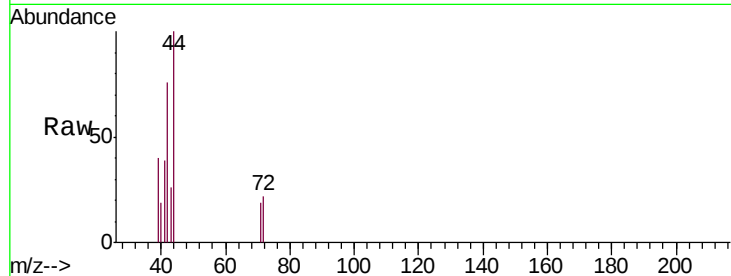




#29
Tetrahydrofuran
Concen: 2.370 ug/l
RT: 5.15 min Scan# 501
Delta R.T. 0.02 min
Lab File: VD059864.D
Acq: 21 Aug 2018 19:12

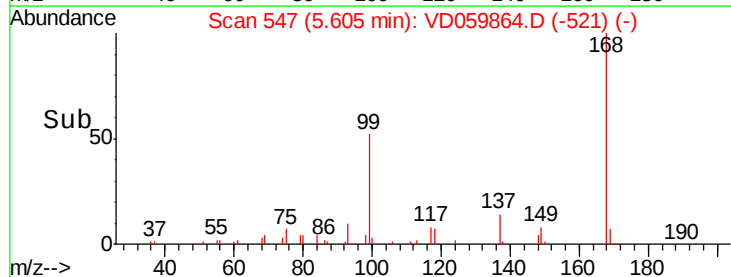
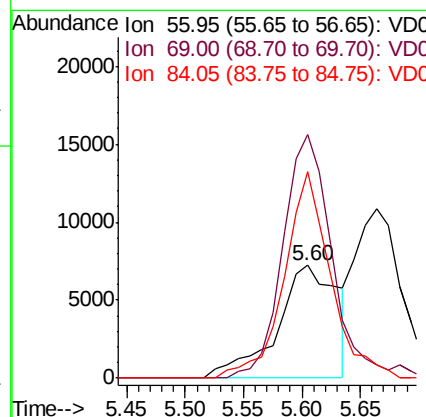
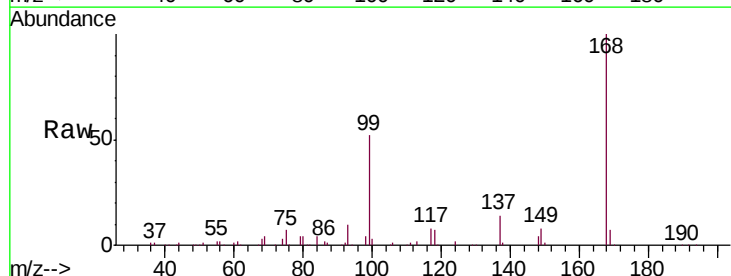
Instrument :
MSVOA_D
ClientSampleId :
RA-081718-FL-046

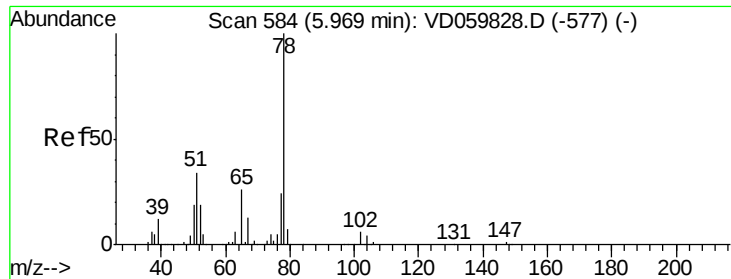
Tgt Ion: 42 Resp: 4879
Ion Ratio Lower Upper
42 100
72 15.3 25.8 38.6#
71 13.4 25.7 38.5#



#31
Cyclohexane
Concen: Below Cal
RT: 5.60 min Scan# 547
Delta R.T. 0.06 min
Lab File: VD059864.D
Acq: 21 Aug 2018 19:12

Tgt Ion: 56 Resp: 25869
Ion Ratio Lower Upper
56 100
69 216.4 21.7 32.5#
84 183.8 57.8 86.6#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 5.98 min Scan# 585

Delta R.T. 0.01 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

Instrument :

MSVOA_D

ClientSampleId :

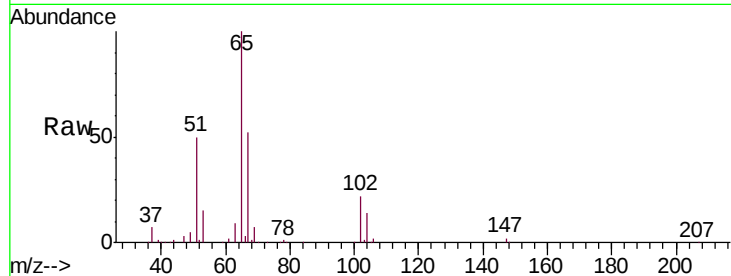
RA-081718-FL-046

Tgt Ion: 65 Resp: 463233

Ion Ratio Lower Upper

65 100

67 51.8 0.0 102.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

5.98

200000

150000

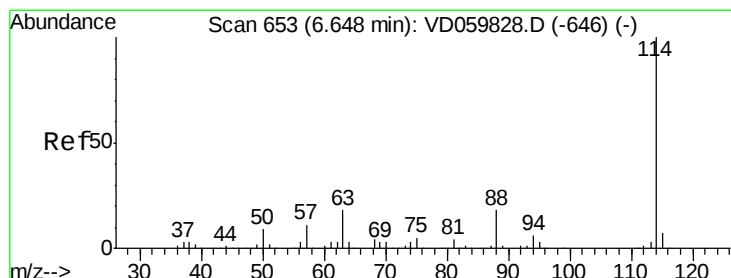
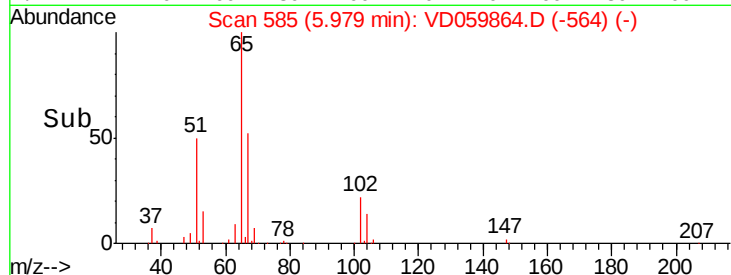
100000

50000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.66 min Scan# 654

Delta R.T. 0.01 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

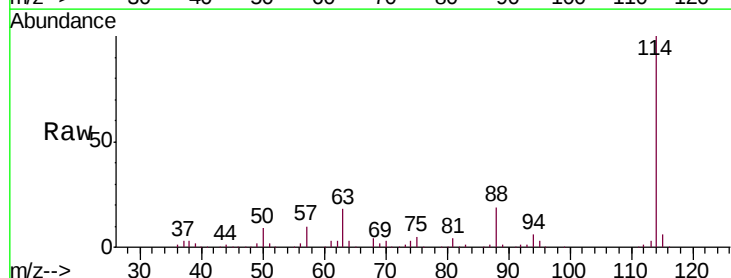
Tgt Ion: 114 Resp: 1386548

Ion Ratio Lower Upper

114 100

63 17.7 0.0 37.0

88 18.7 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

6.66

600000

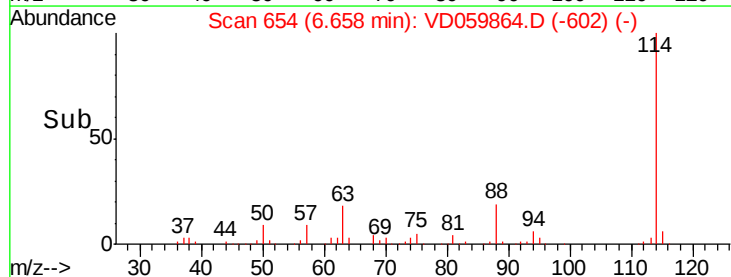
400000

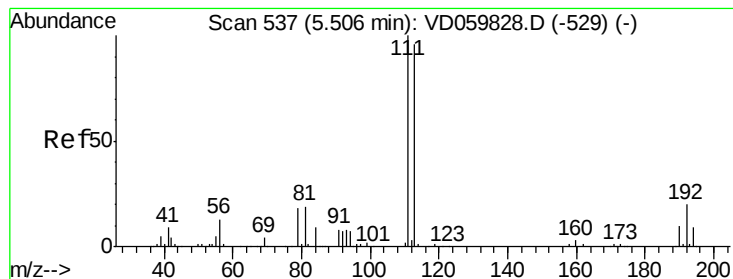
200000

0

Time-->

6.60 6.80 7.00





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.52 min Scan# 538

Delta R.T. 0.01 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-FL-046

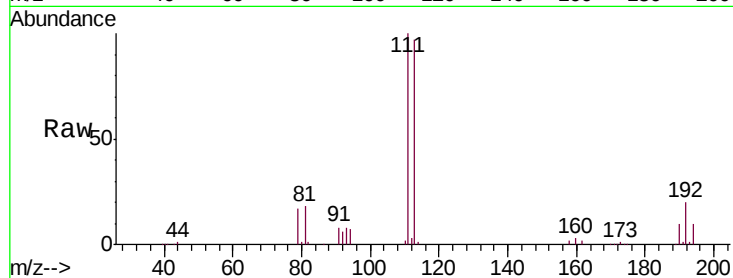
Tgt Ion:113 Resp: 595194

Ion Ratio Lower Upper

113 100

111 102.8 83.3 124.9

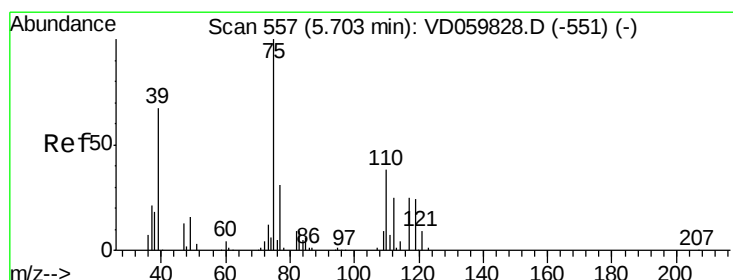
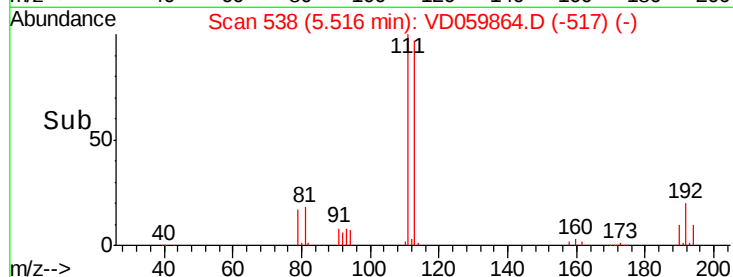
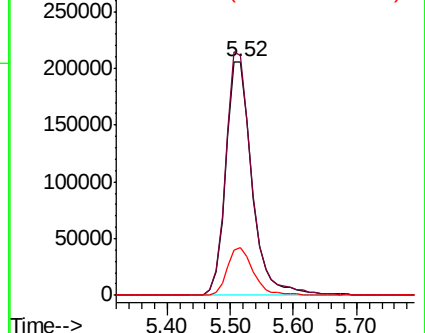
192 20.3 16.8 25.2



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: 5.914 ug/l

RT: 5.60 min Scan# 547

Delta R.T. -0.10 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

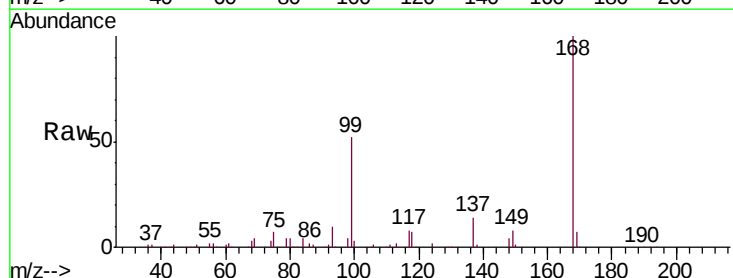
Tgt Ion: 75 Resp: 69548

Ion Ratio Lower Upper

75 100

110 6.5 18.8 56.4#

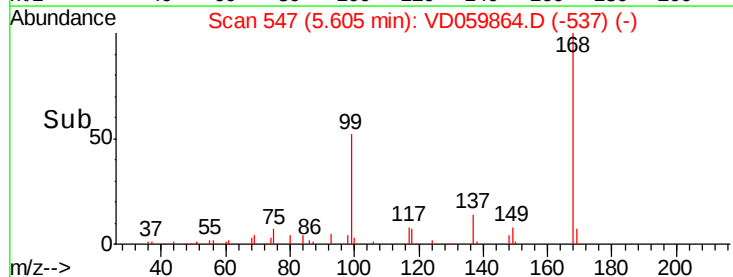
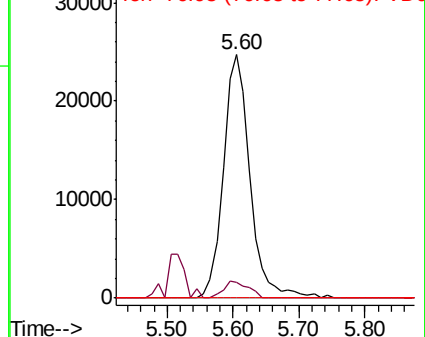
77 0.0 24.9 37.3#

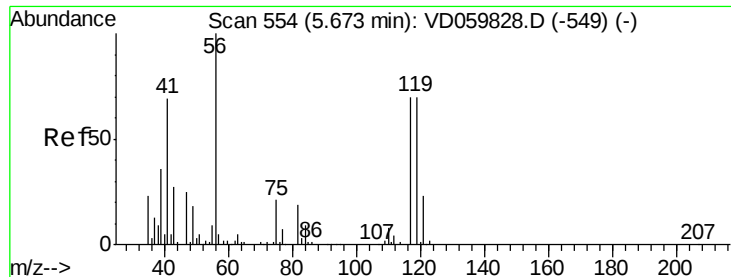


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

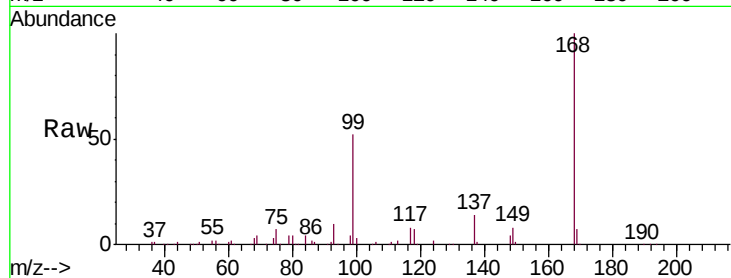




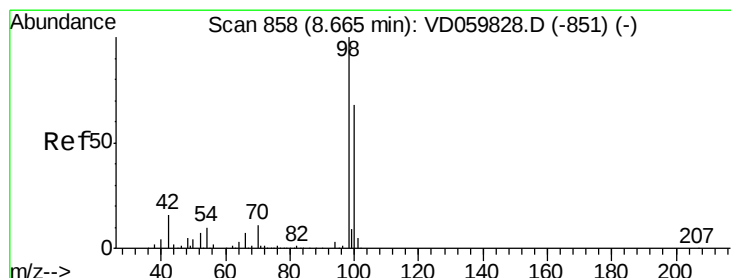
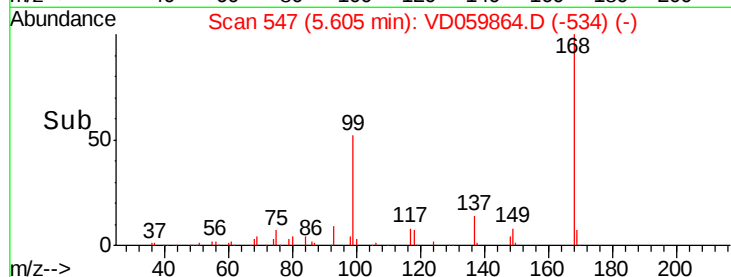
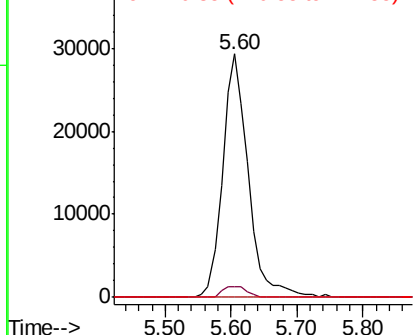
#38
Carbon Tetrachloride
Concen: 6.767 ug/l
RT: 5.60 min Scan# 547
Delta R.T. -0.07 min
Lab File: VD059864.D
Acq: 21 Aug 2018 19:12

Instrument :
MSVOA_D
ClientSampleId :
RA-081718-FL-046

Tgt Ion:117 Resp: 79416
Ion Ratio Lower Upper
117 100
119 4.6 77.0 115.4#
121 0.0 24.7 37.1#

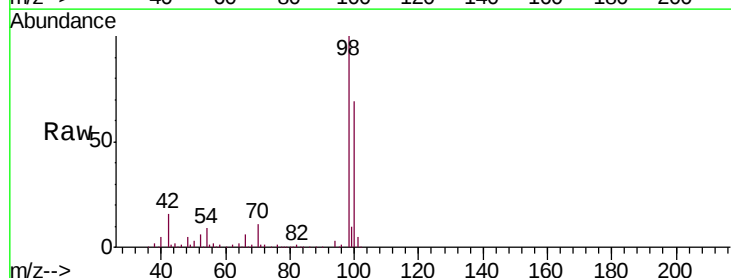


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

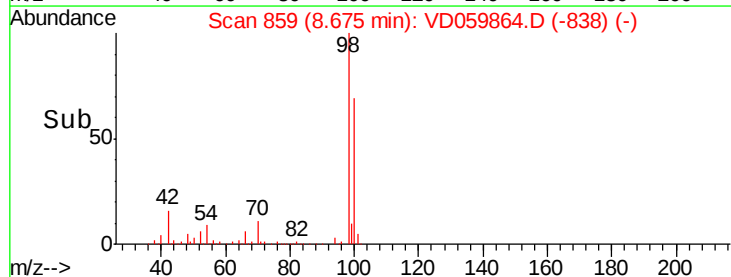
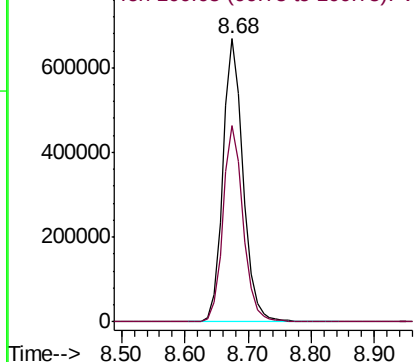


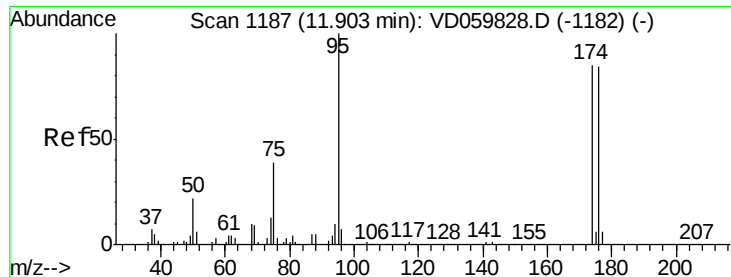
#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.68 min Scan# 859
Delta R.T. 0.01 min
Lab File: VD059864.D
Acq: 21 Aug 2018 19:12

Tgt Ion: 98 Resp: 1488465
Ion Ratio Lower Upper
98 100
100 69.2 55.0 82.4



Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.91 min Scan# 1188

Delta R.T. 0.01 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-FL-046

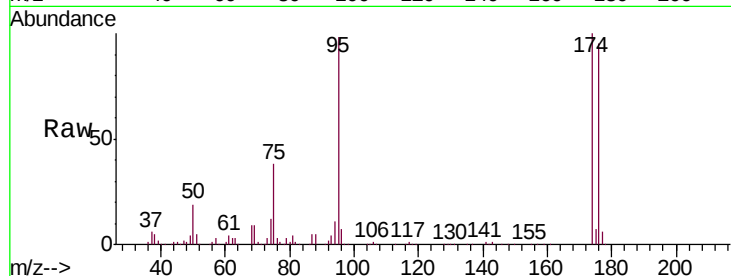
Tgt Ion: 95 Resp: 526522

Ion Ratio Lower Upper

95 100

174 101.6 0.0 169.2

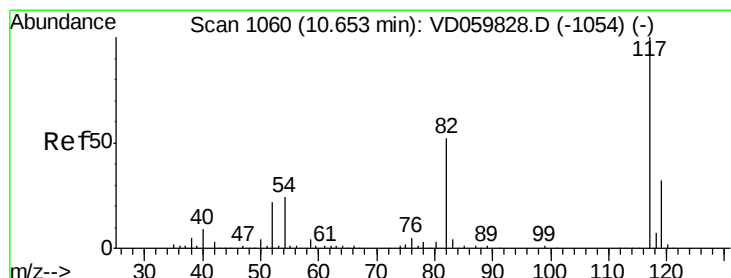
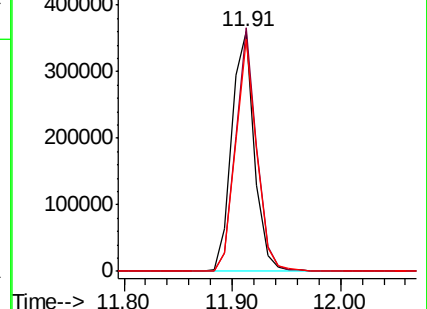
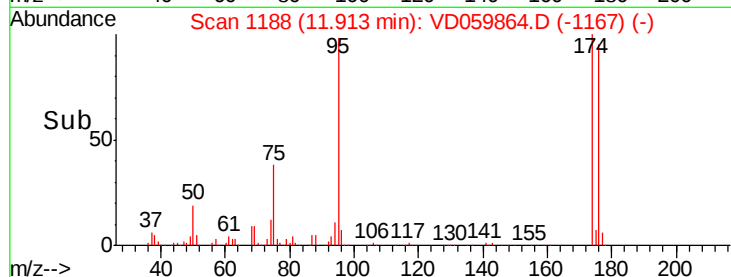
176 96.8 0.0 168.0



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# 1061

Delta R.T. 0.01 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

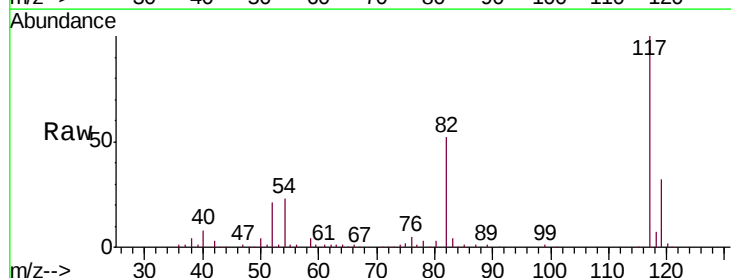
Tgt Ion: 117 Resp: 1063337

Ion Ratio Lower Upper

117 100

82 51.9 41.6 62.4

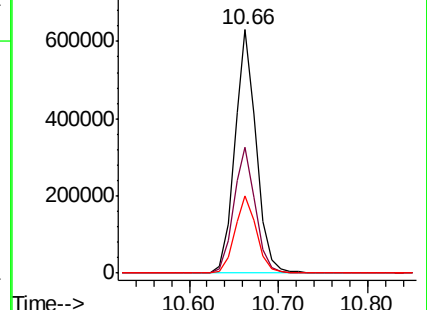
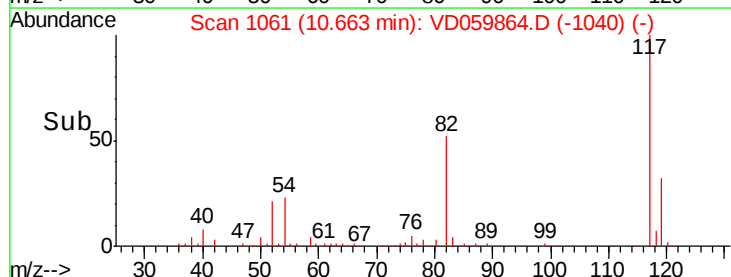
119 31.9 25.6 38.4

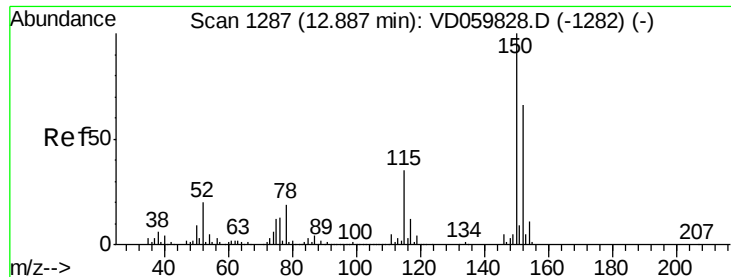


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.89 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

Instrument :

MSVOA_D

ClientSampleId :

RA-081718-FL-046

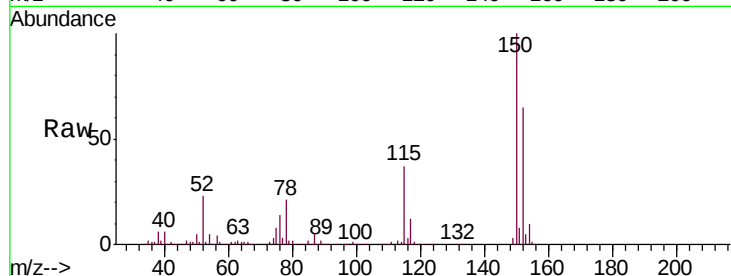
Tgt Ion:152 Resp: 459805

Ion Ratio Lower Upper

152 100

115 56.9 26.9 80.6

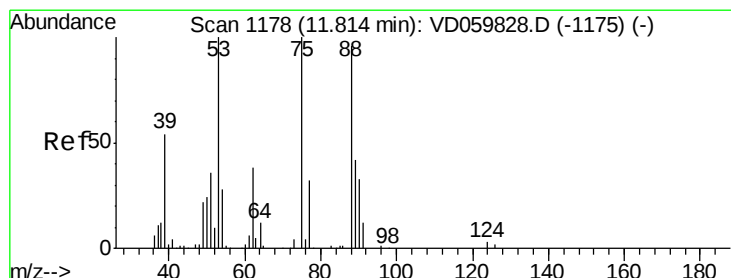
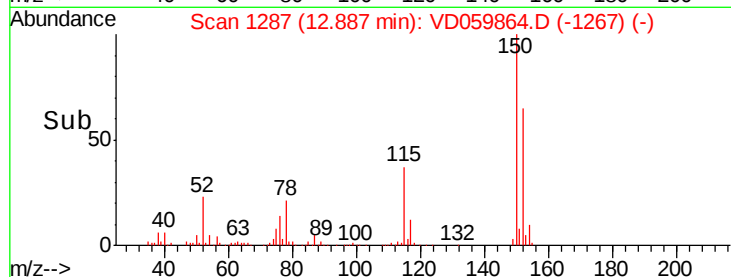
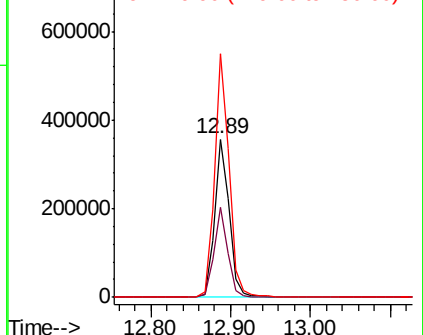
150 153.7 0.0 306.8



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: 88.730 ug/l

RT: 11.91 min Scan# 1188

Delta R.T. 0.10 min

Lab File: VD059864.D

Acq: 21 Aug 2018 19:12

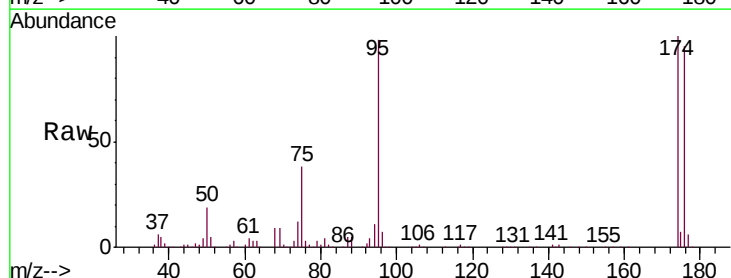
Tgt Ion: 75 Resp: 211000

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

