

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062218\
 Data File : VD058333.D
 Acq On : 23 Jun 2018 10:23
 Operator : VA/AP
 Sample : J3252-03
 Misc : 5.34g/5ml/MSVOA D/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-062118RE

Quant Time: Jun 25 00:56:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	518092	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.71	114	716712	50.00	ug/l	0.02
63) Chlorobenzene-d5	10.70	117	450306	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	244042	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	335612	64.13	ug/l	0.02
Spiked Amount			Recovery	=	128.26%	
35) Dibromofluoromethane	5.57	113	311327	53.37	ug/l	0.02
Spiked Amount			Recovery	=	106.74%	
50) Toluene-d8	8.72	98	483755	34.28	ug/l	0.00
Spiked Amount			Recovery	=	68.56%	
62) 4-Bromofluorobenzene	11.94	95	249935	43.35	ug/l	0.00
Spiked Amount			Recovery	=	86.70%	

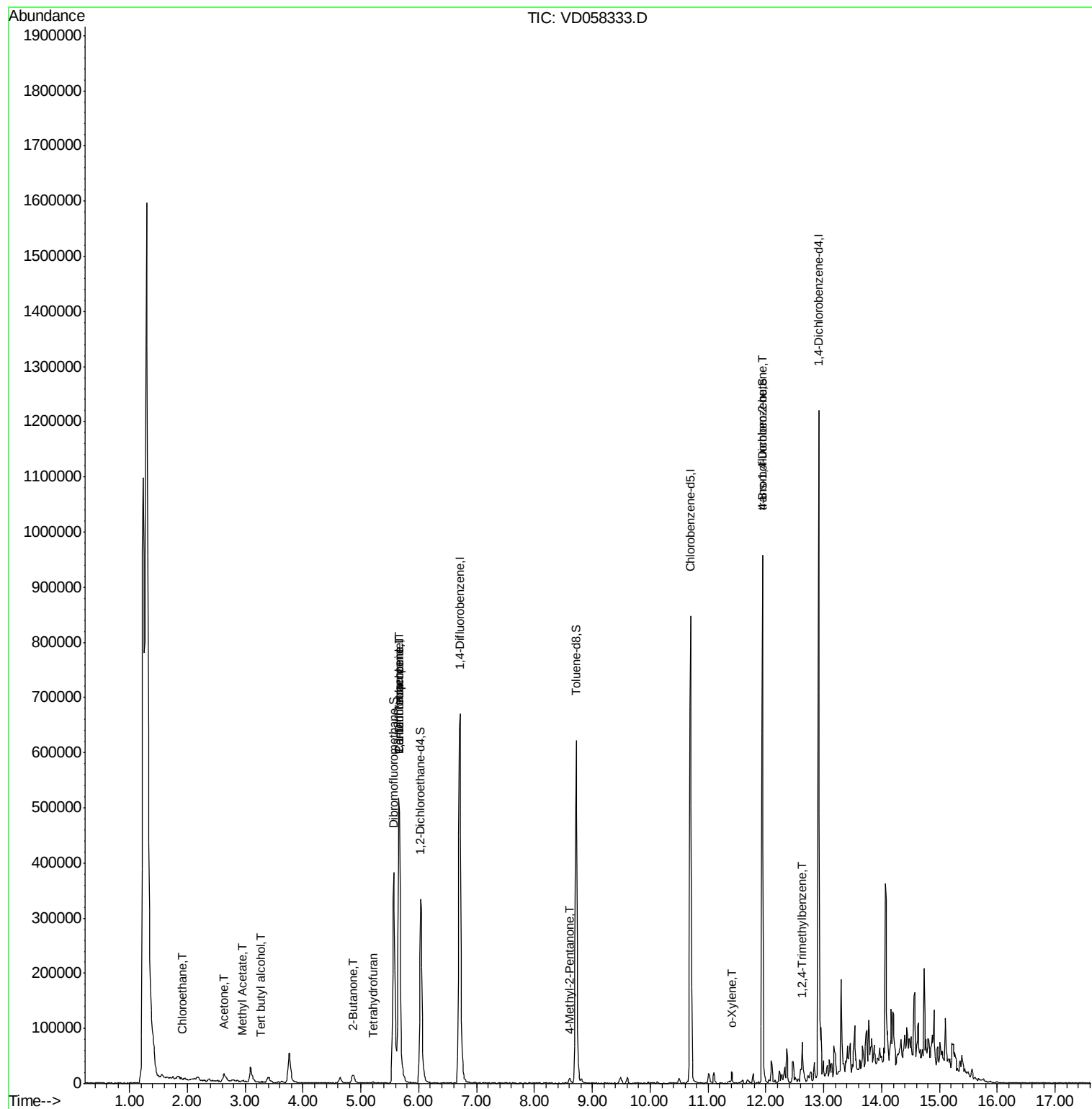
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.35	85	1120	Below Cal	#	43
3) Chloromethane	1.55	50	253	Below Cal	#	43
6) Chloroethane	1.92	64	187	1.565	ug/l #	41
11) Tert butyl alcohol	3.26	59	181	1.049	ug/l #	78
16) Acetone	2.63	43	28853	40.316	ug/l #	89
18) Methyl Acetate	2.95	43	4289	2.810	ug/l #	65
25) 2-Butanone	4.86	43	3811	2.443	ug/l #	60
29) Tetrahydrofuran	5.22	42	1322	1.592	ug/l #	56
31) Cyclohexane	5.67	56	12145	Below Cal	#	1
36) 1,1-Dichloropropene	5.67	75	42274	5.962	ug/l #	50
38) Carbon Tetrachloride	5.65	117	42425	6.022	ug/l #	13
51) 4-Methyl-2-Pentanone	8.62	43	10231	2.912	ug/l	88
69) o-Xylene	11.42	106	4879	1.030	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.94	75	122108	140.514	ug/l #	1
82) 4-Chlorotoluene	12.32	91	1600	Below Cal	#	45
84) 1,2,4-Trimethylbenzene	12.63	105	28350	2.291	ug/l	97

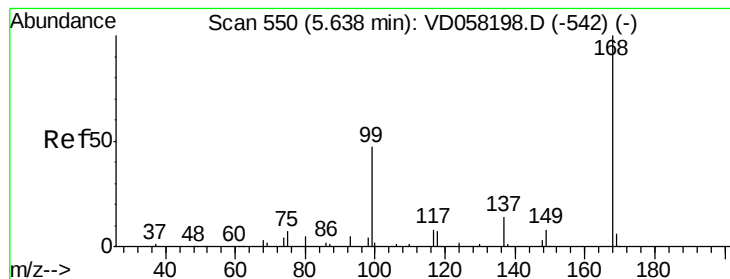
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 553

Delta R.T. 0.03 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

Instrument :

MSVOA_D

ClientSampleId :

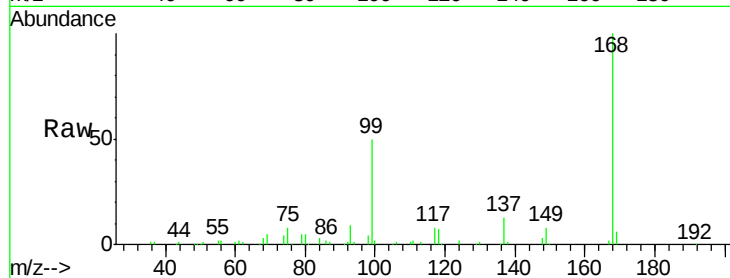
TR-05-062118RE

Tot Ion:168 Resp: 518092

Ion Ratio Lower Upper

168 100

99 49.8 41.1 61.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.67

200000

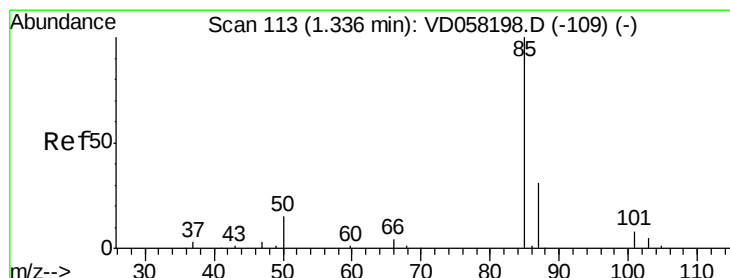
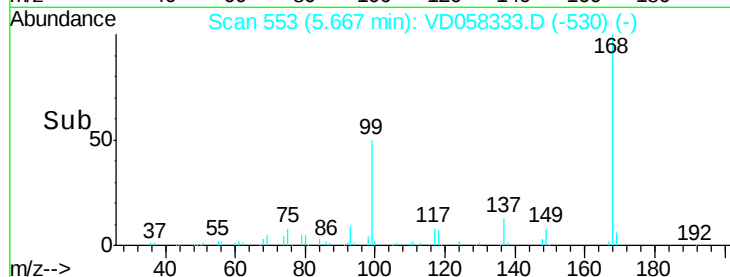
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.35 min Scan# 114

Delta R.T. 0.01 min

Lab File: VD058333.D

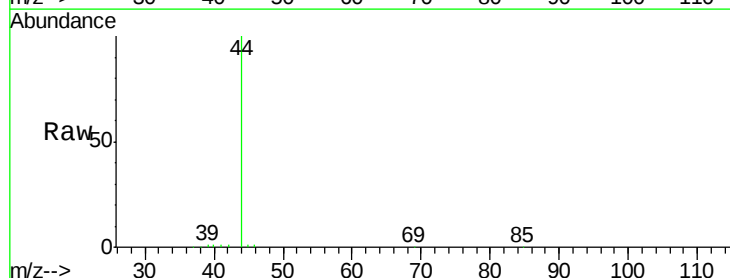
Acq: 23 Jun 2018 10:23

Tgt Ion: 85 Resp: 1120

Ion Ratio Lower Upper

85 100

87 0.0 15.7 47.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.35

600

500

400

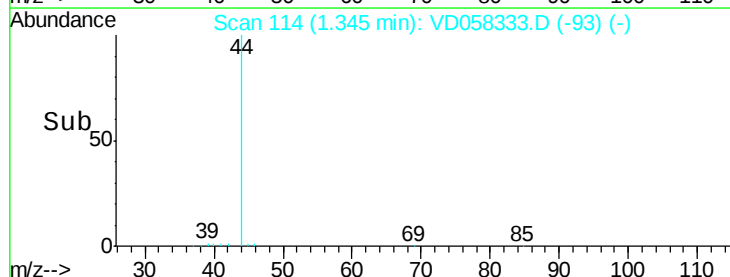
300

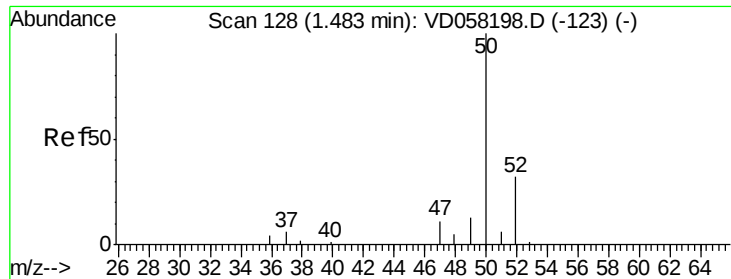
200

100

0

Time--> 1.30 1.35 1.40





#3

Chloromethane

Concen: Below Cal

RT: 1.55 min Scan# 135

Delta R.T. 0.07 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

Instrument :

MSVOA_D

ClientSampleId :

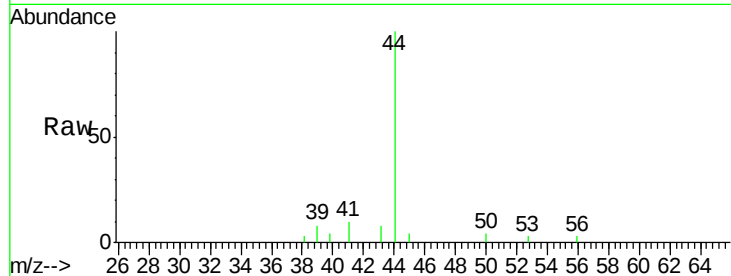
TR-05-062118RE

Tot Ion: 50 Resp: 253

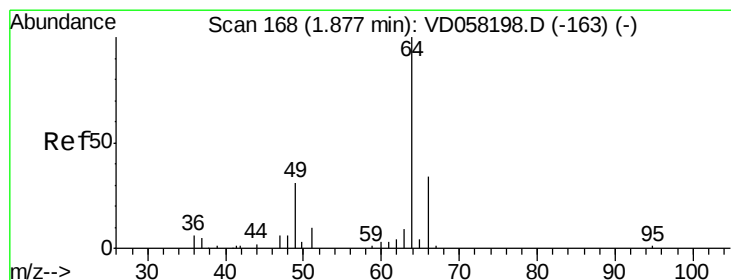
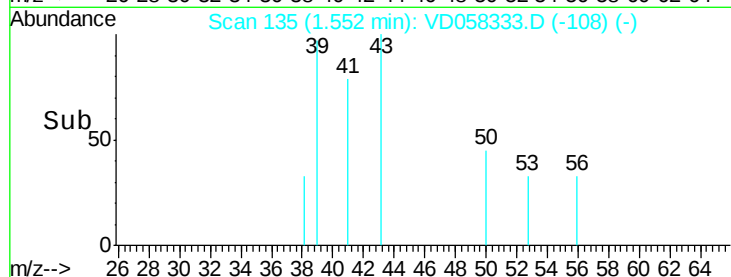
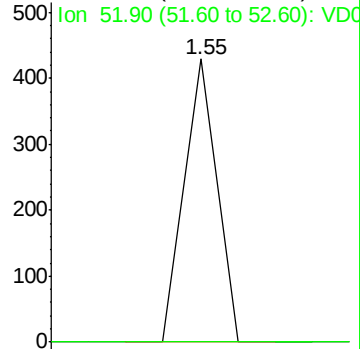
Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC



#6

Chloroethane

Concen: 1.565 ug/l

RT: 1.92 min Scan# 172

Delta R.T. 0.04 min

Lab File: VD058333.D

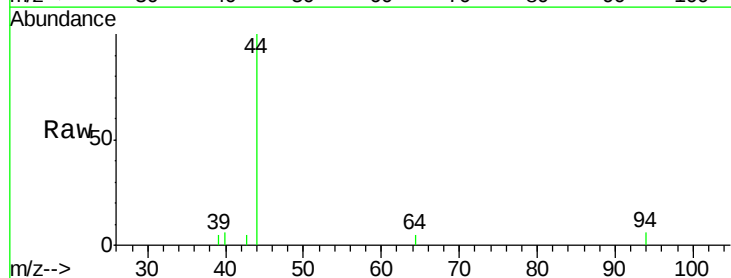
Acq: 23 Jun 2018 10:23

Tgt Ion: 64 Resp: 187

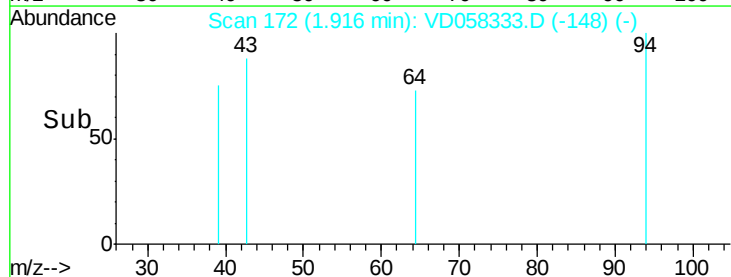
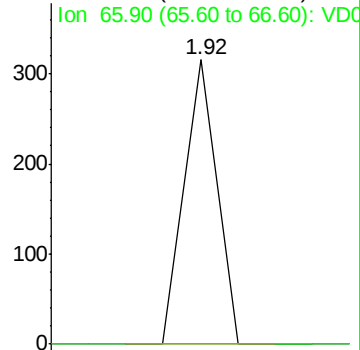
Ion Ratio Lower Upper

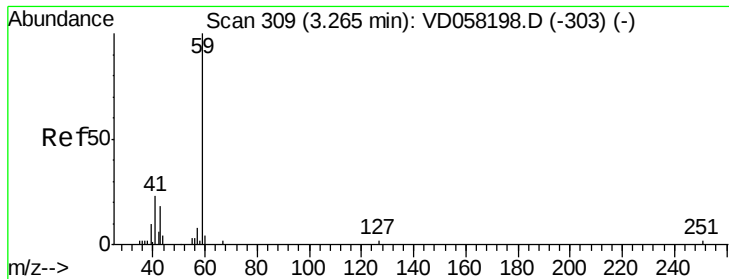
64 100

66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

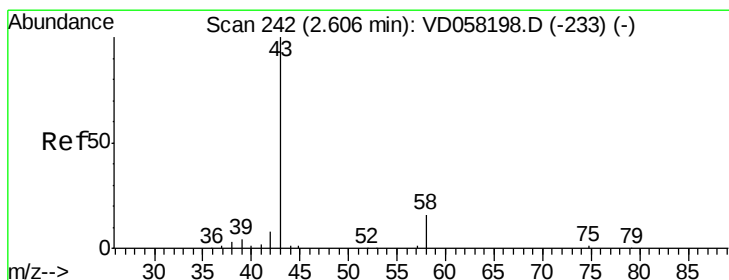
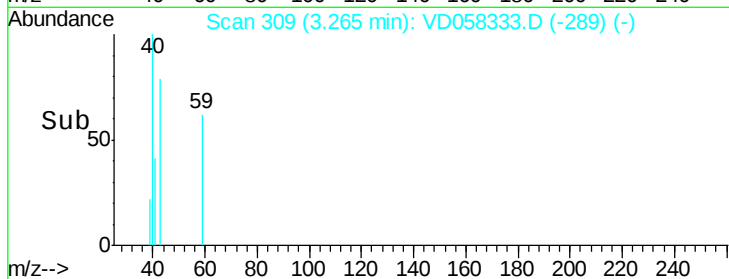
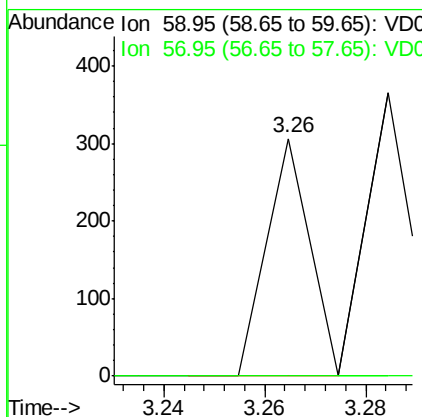
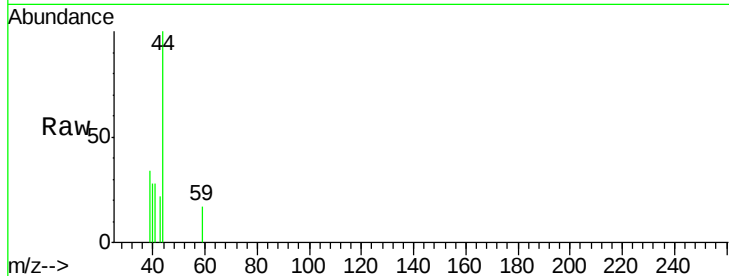




#11
Tert butyl alcohol
Concen: 1.049 ug/l
RT: 3.26 min Scan# 309
Delta R.T. -0.00 min
Lab File: VD058333.D
Acq: 23 Jun 2018 10:23

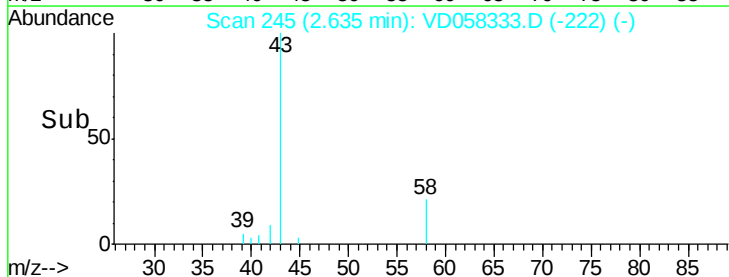
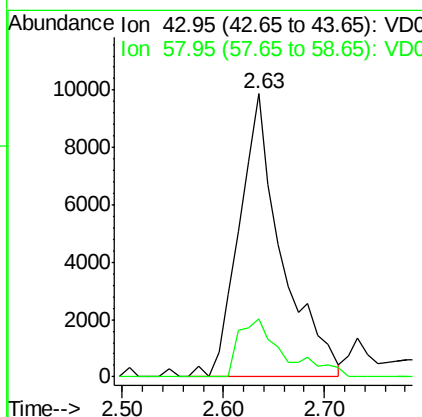
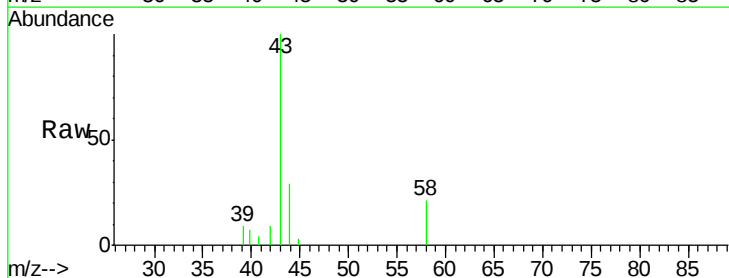
Instrument :
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TR-05-062118RE

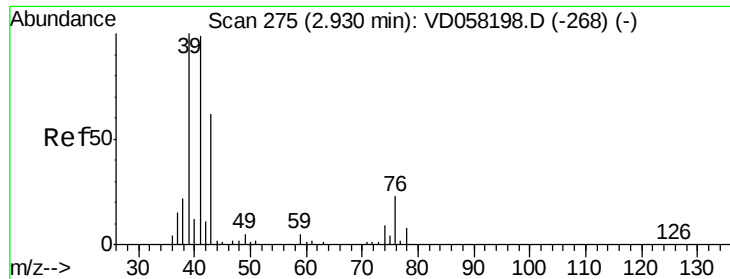
Tot Ion: 59 Resp: 181
Ion Ratio Lower Upper
59 100
57 0.0 6.2 9.4#



#16
Acetone
Concen: 40.316 ug/l
RT: 2.63 min Scan# 245
Delta R.T. 0.03 min
Lab File: VD058333.D
Acq: 23 Jun 2018 10:23

Tgt Ion: 43 Resp: 28853
Ion Ratio Lower Upper
43 100
58 20.7 12.7 19.1#

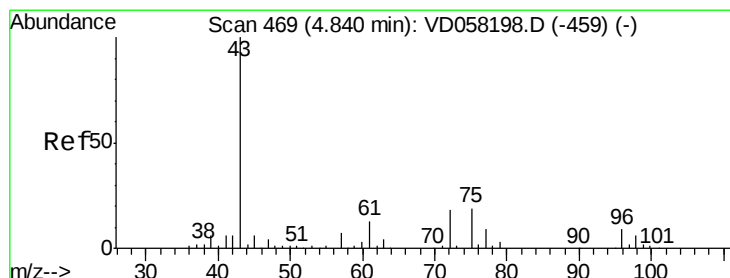
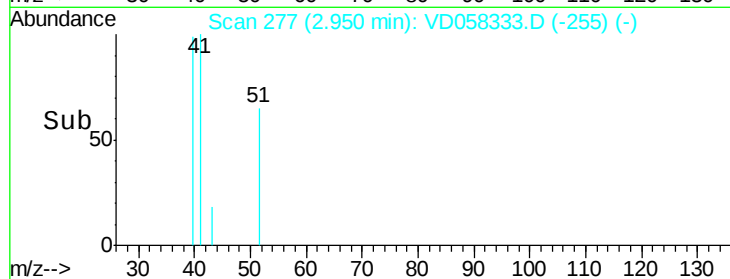
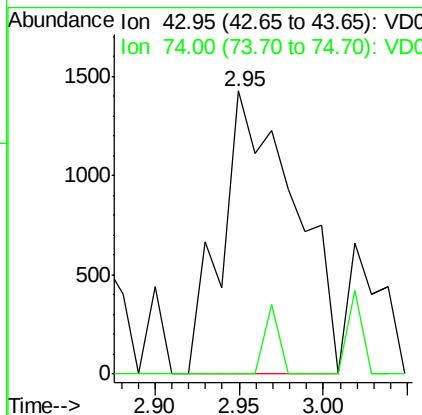
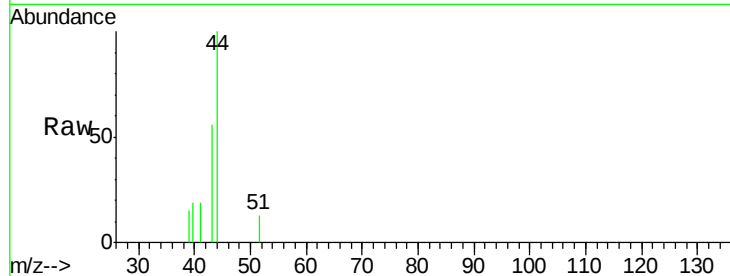




#18
Methyl Acetate
Concen: 2.810 ug/l
RT: 2.95 min Scan# 277
Delta R.T. 0.02 min
Lab File: VD058333.D
Acq: 23 Jun 2018 10:23

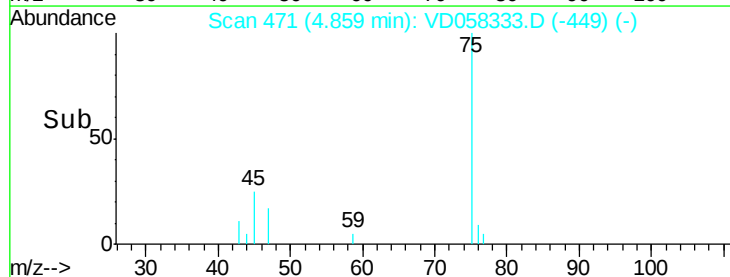
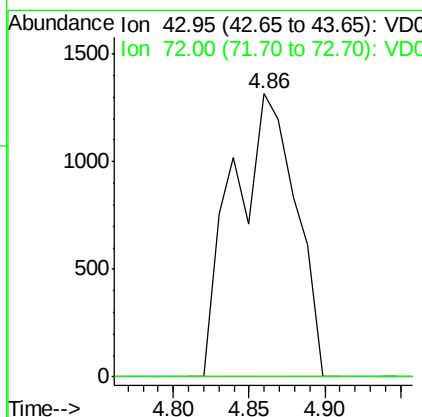
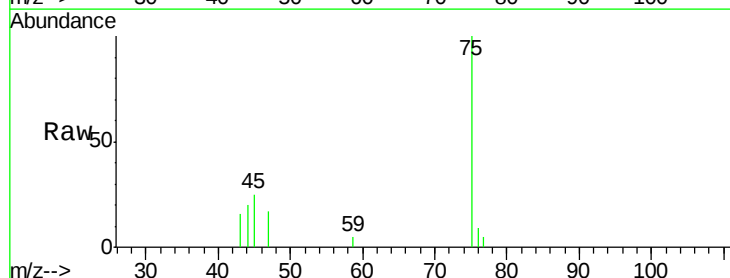
Instrument :
MSVOA_D
ClientSampleId :
TR-05-062118RE

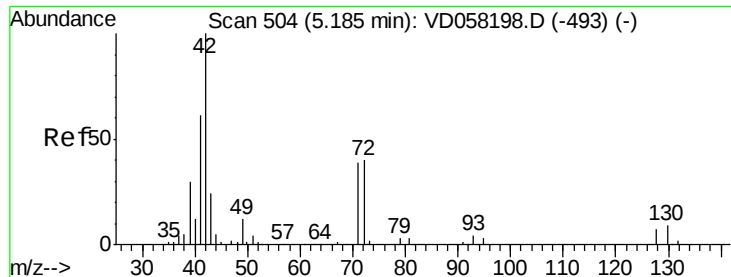
Tot Ion: 43 Resp: 4289
Ion Ratio Lower Upper
43 100
74 0.0 11.7 17.5#



#25
2-Butanone
Concen: 2.443 ug/l
RT: 4.86 min Scan# 471
Delta R.T. 0.02 min
Lab File: VD058333.D
Acq: 23 Jun 2018 10:23

Tgt Ion: 43 Resp: 3811
Ion Ratio Lower Upper
43 100
72 0.0 14.1 21.1#

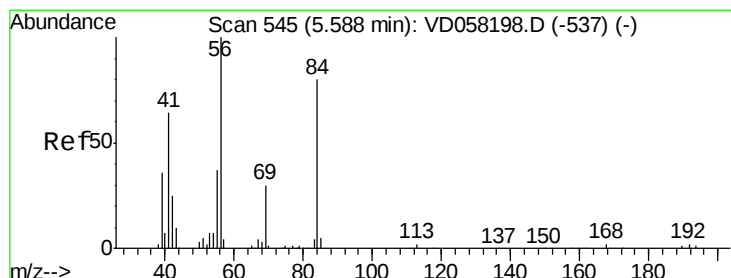
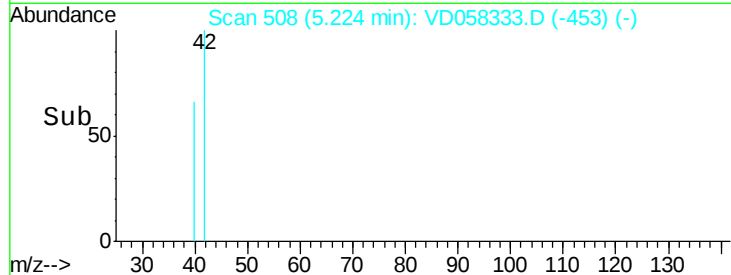
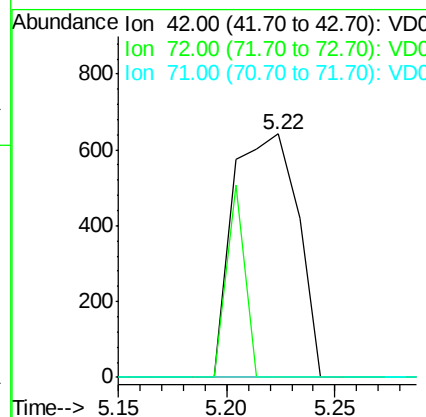
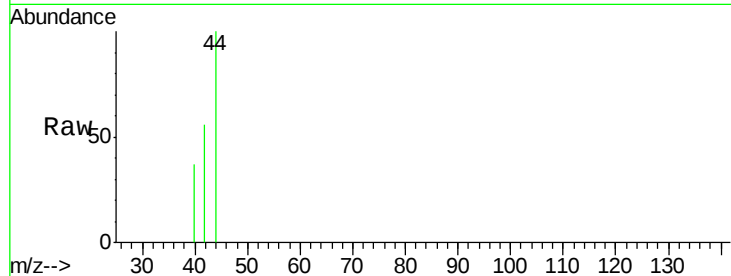




#29
Tetrahydrofuran
Concen: 1.592 ug/l
RT: 5.22 min Scan# 508
Delta R.T. 0.04 min
Lab File: VD058333.D
Acq: 23 Jun 2018 10:23

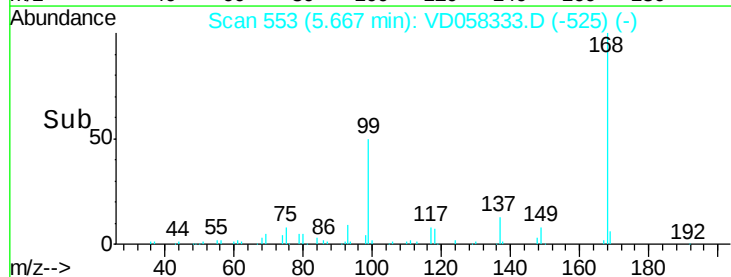
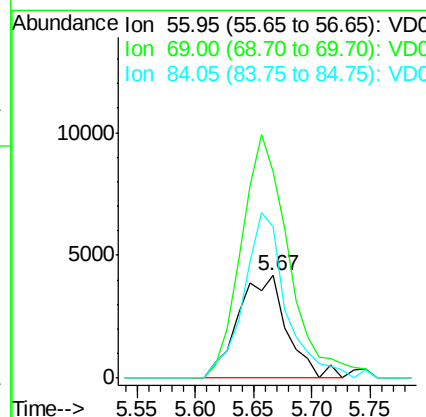
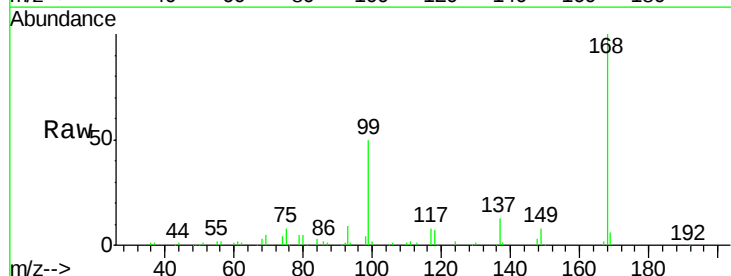
Instrument :
MSVOA_D
ClientSampleId :
TR-05-062118RE

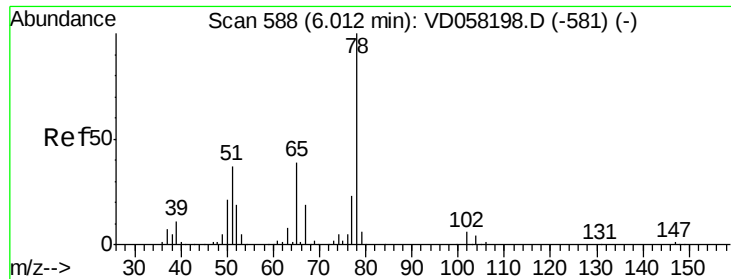
Tot Ion	Ratio	Lower	Upper
42	100		
72	22.7	30.2	45.2#
71	0.0	30.1	45.1#



#31
Cyclohexane
Concen: Below Cal
RT: 5.67 min Scan# 553
Delta R.T. 0.08 min
Lab File: VD058333.D
Acq: 23 Jun 2018 10:23

Tgt Ion	Ratio	Lower	Upper
56	100		
69	202.2	23.6	35.4#
84	148.0	65.2	97.8#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.03 min Scan# 590

Delta R.T. 0.02 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

Instrument :

MSVOA_D

ClientSampleId :

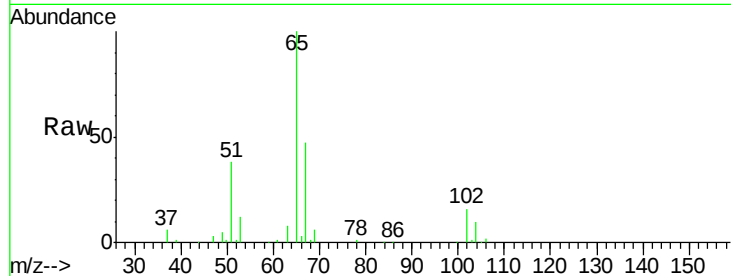
TR-05-062118RE

Tot Ion: 65 Resp: 335612

Ion Ratio Lower Upper

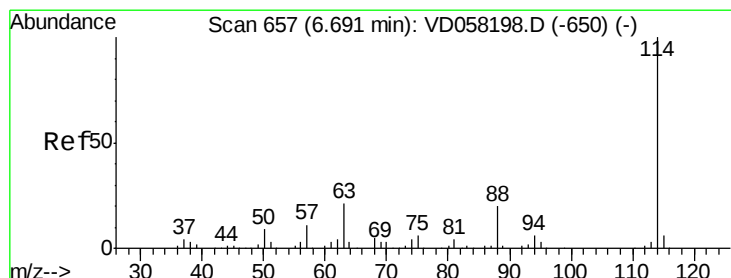
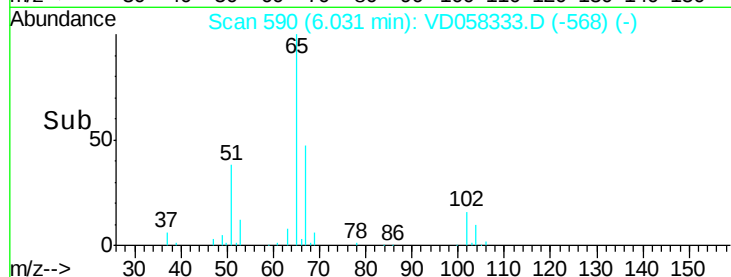
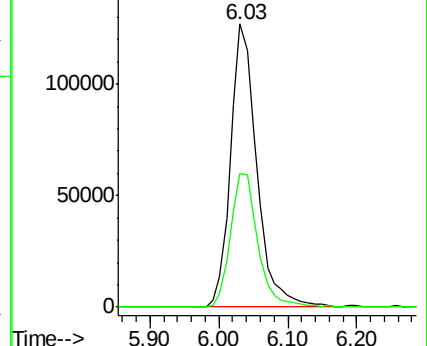
65 100

67 47.2 0.0 97.8



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: 6.71 min Scan# 659

Delta R.T. 0.02 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

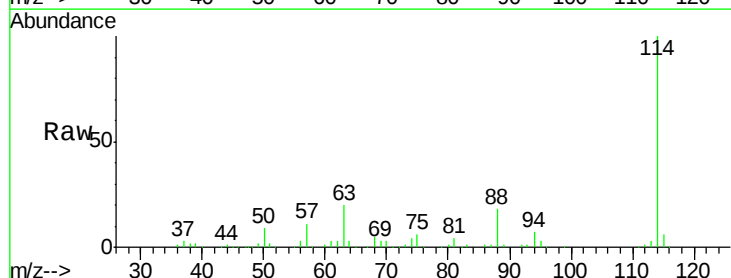
Tgt Ion: 114 Resp: 716712

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

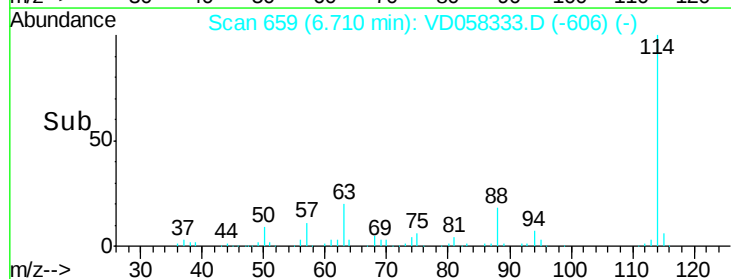
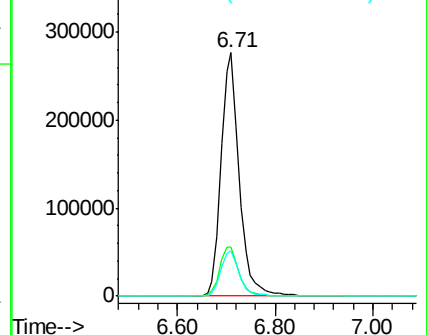
88 18.3 0.0 40.6

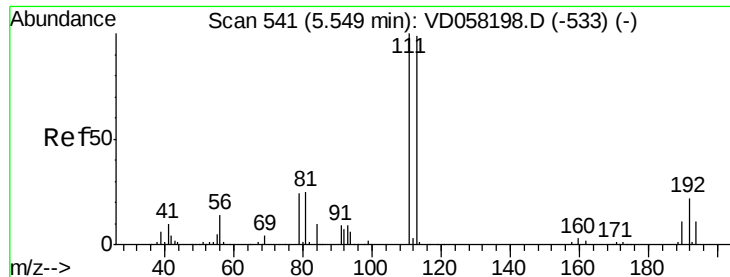


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.57 min Scan# 543

Delta R.T. 0.02 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

Instrument :

MSVOA_D

ClientSampleId :

TR-05-062118RE

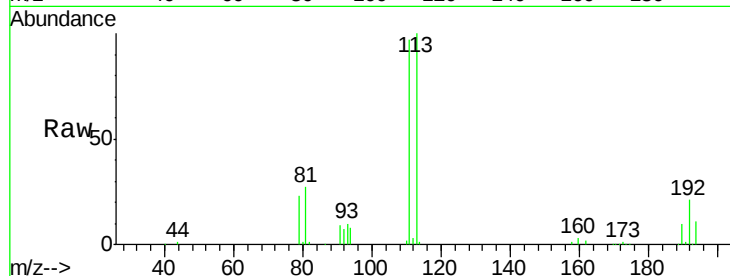
Tot Ion:113 Resp: 311327

Ion	Ratio	Lower	Upper
113	100		
111	96.5	80.6	121.0
192	20.9	17.8	26.6

113 100

111 96.5 80.6 121.0

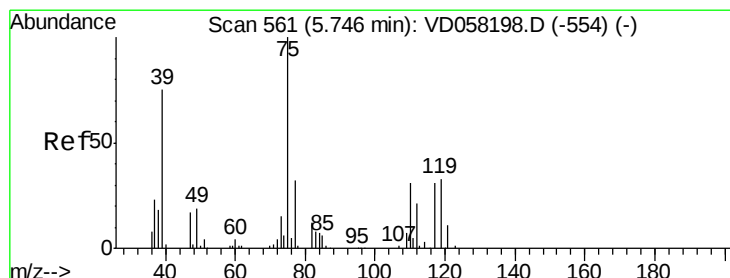
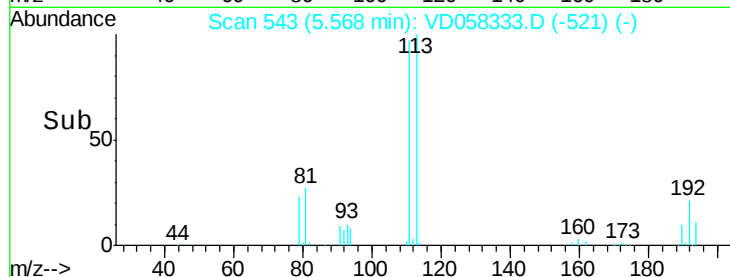
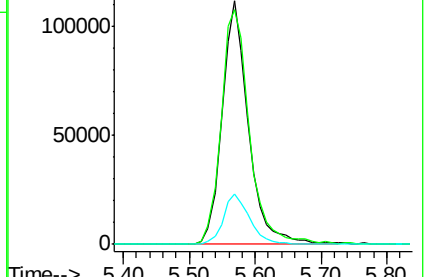
192 20.9 17.8 26.6



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: 5.962 ug/l

RT: 5.67 min Scan# 553

Delta R.T. -0.08 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

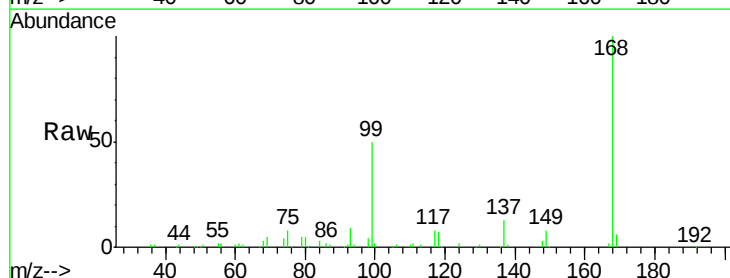
Tgt Ion: 75 Resp: 42274

Ion	Ratio	Lower	Upper
75	100		
110	8.0	15.4	46.4#
77	0.0	25.4	38.2#

75 100

110 8.0 15.4 46.4#

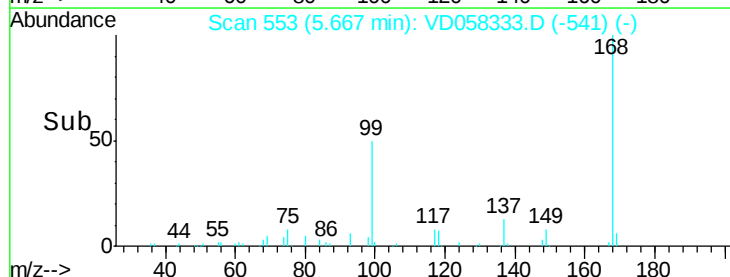
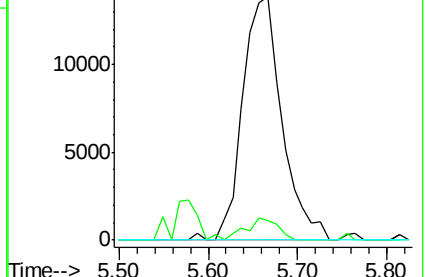
77 0.0 25.4 38.2#

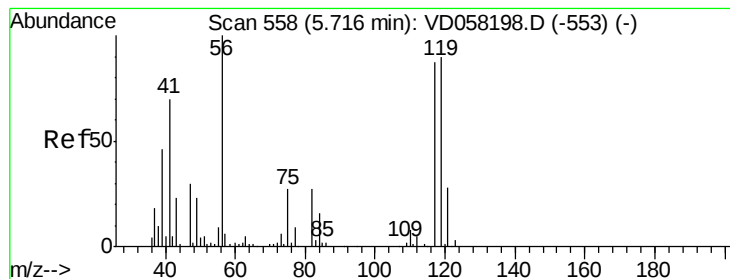


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V





#38

Carbon Tetrachloride

Concen: 6.022 ug/l

RT: 5.65 min Scan# 551

Delta R.T. -0.07 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

Instrument :

MSVOA_D

ClientSampleId :

TR-05-062118RE

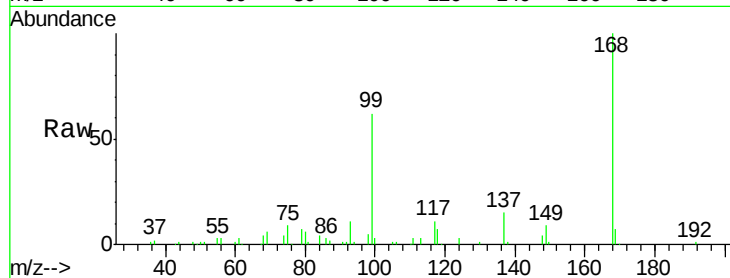
Tot Ion:117 Resp: 42425

Ion Ratio Lower Upper

117 100

119 2.5 78.8 118.2#

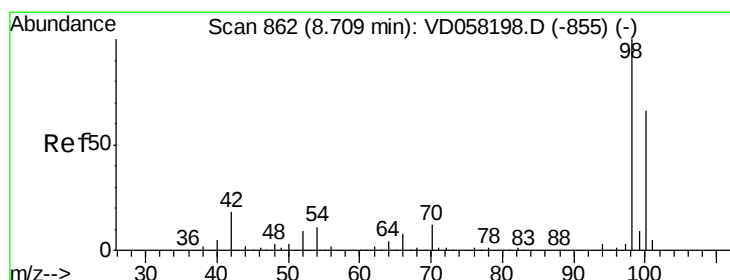
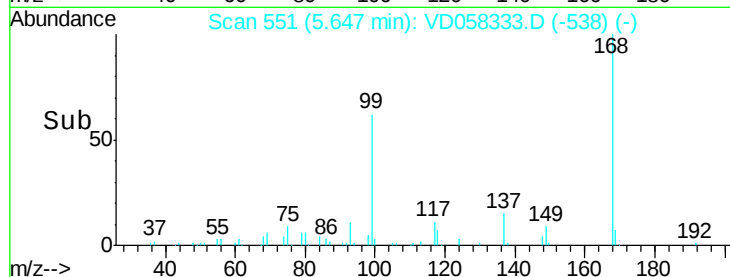
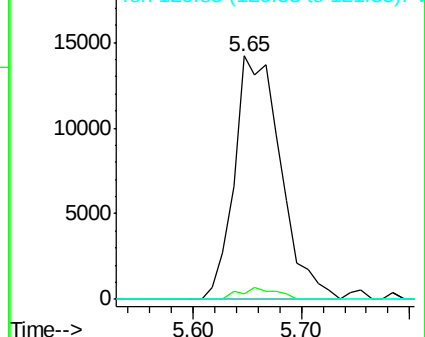
121 0.0 25.0 37.6#



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: 8.72 min Scan# 863

Delta R.T. 0.01 min

Lab File: VD058333.D

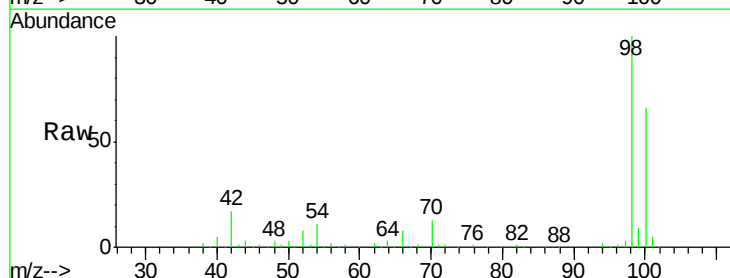
Acq: 23 Jun 2018 10:23

Tgt Ion: 98 Resp: 483755

Ion Ratio Lower Upper

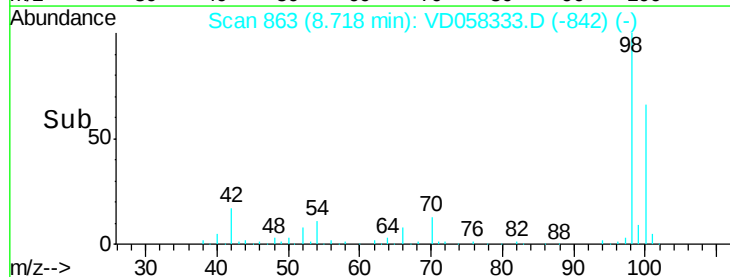
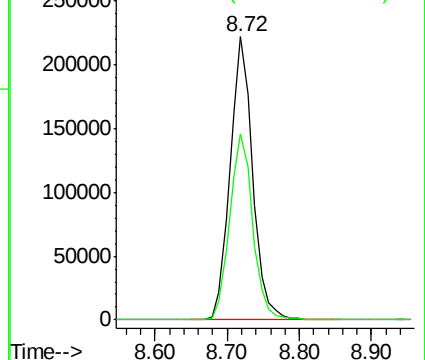
98 100

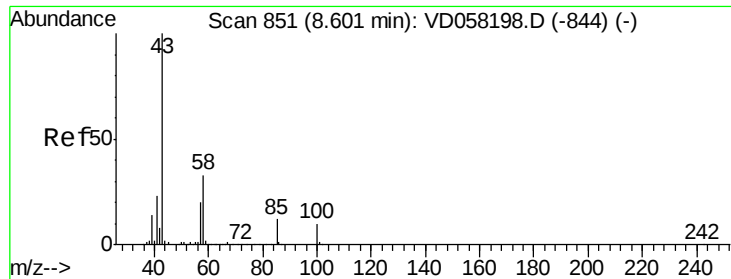
100 65.5 53.6 80.4



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: 2.912 ug/l

RT: 8.62 min Scan# 853

Delta R.T. 0.02 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

Instrument :

MSVOA_D

ClientSampleId :

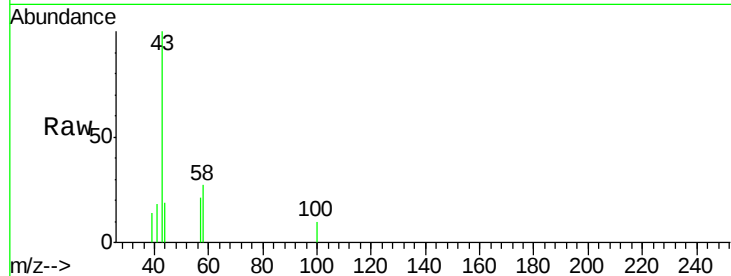
TR-05-062118RE

Tot Ion: 43 Resp: 10231

Ion Ratio Lower Upper

43 100

58 26.8 26.7 40.1

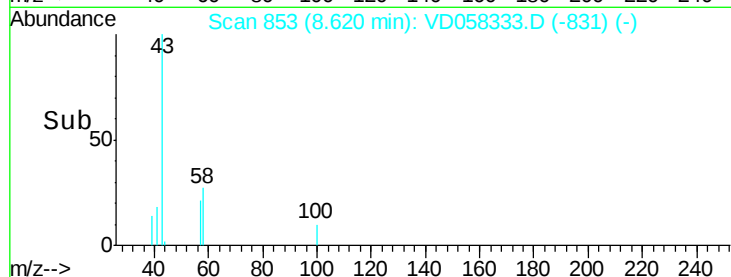


Abundance Ion 42.95 (42.65 to 43.65): VDC

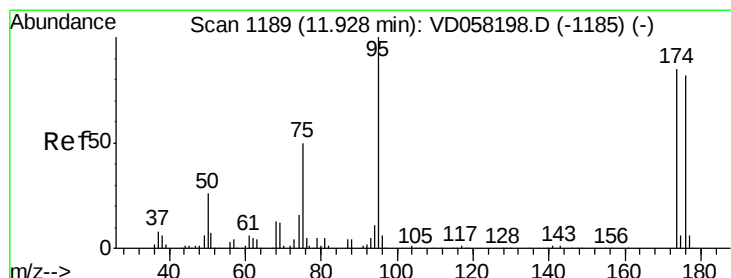
Ion 57.95 (57.65 to 58.65): VDC

8.62

Time-->



Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

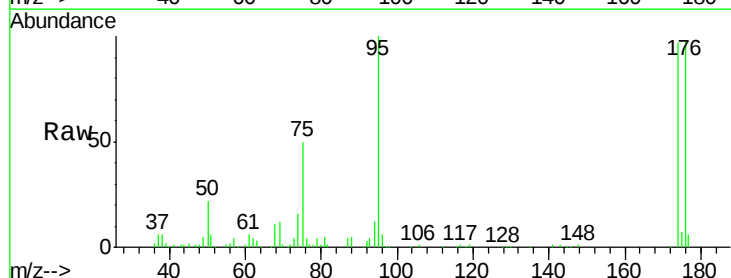
Tgt Ion: 95 Resp: 249935

Ion Ratio Lower Upper

95 100

174 97.2 0.0 170.2

176 97.8 0.0 164.6



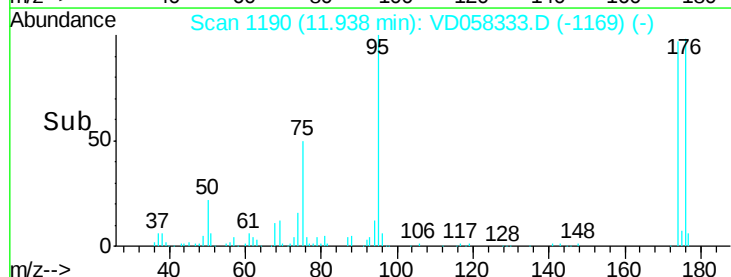
Abundance Ion 95.00 (94.70 to 95.70): VDC

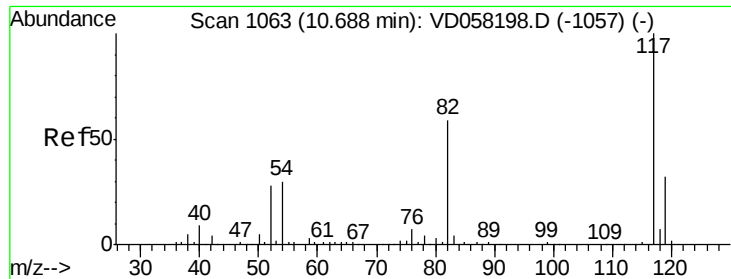
Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

11.94

Time-->

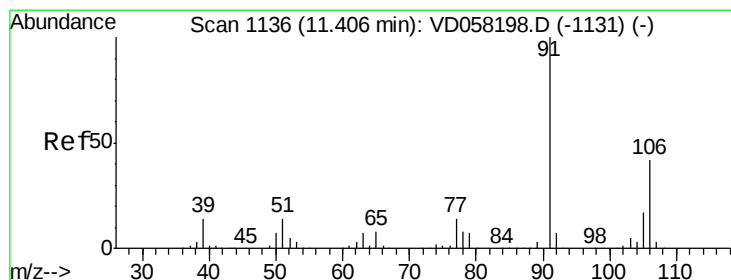
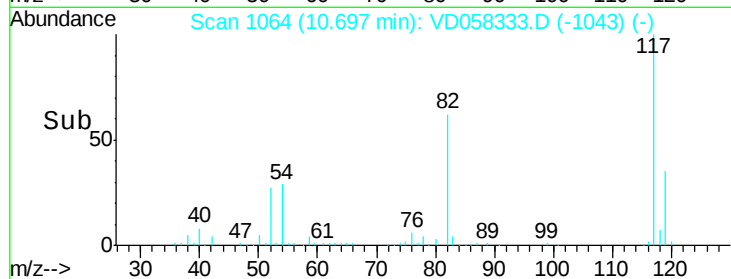
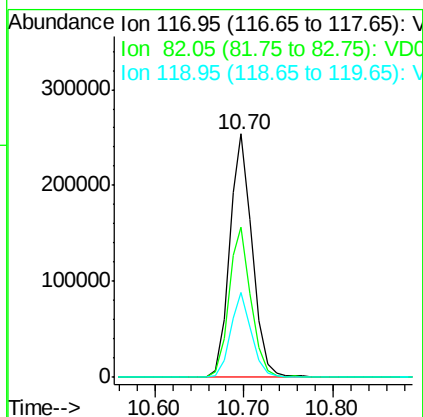
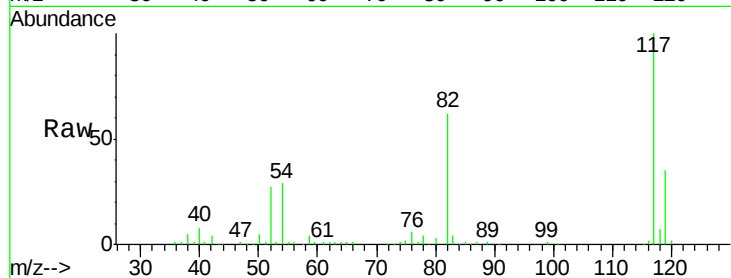




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058333.D
Acq: 23 Jun 2018 10:23

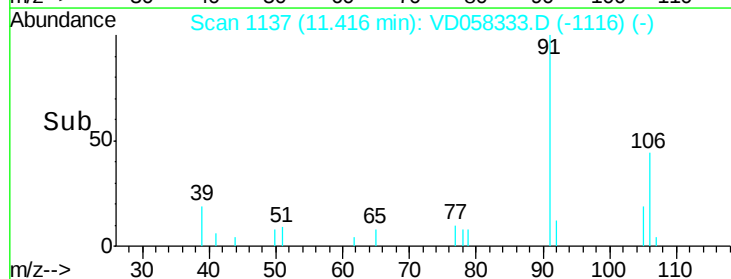
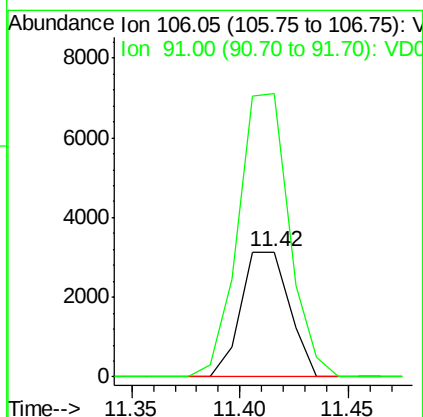
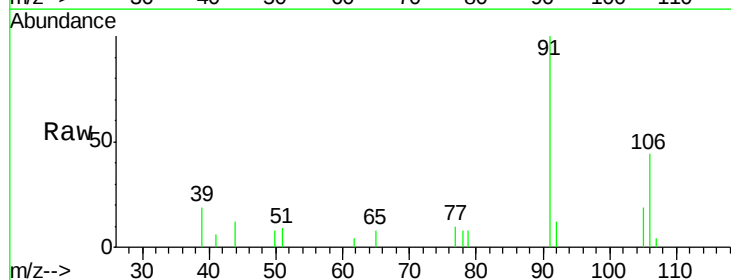
Instrument :
MSVOA_D
ClientSampleId :
TR-05-062118RE

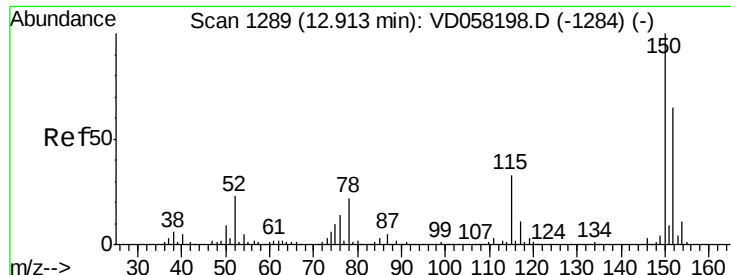
Tot Ion:117 Resp: 450306
Ion Ratio Lower Upper
117 100
82 61.6 47.0 70.6
119 34.8 25.3 37.9



#69
o-Xylene
Concen: 1.030 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.01 min
Lab File: VD058333.D
Acq: 23 Jun 2018 10:23

Tgt Ion:106 Resp: 4879
Ion Ratio Lower Upper
106 100
91 226.3 120.2 360.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

Instrument :

MSVOA_D

ClientSampleId :

TR-05-062118RE

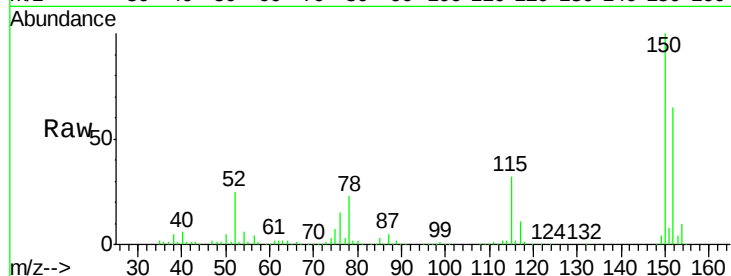
Tot Ion:152 Resp: 244042

Ion Ratio Lower Upper

152 100

115 48.3 25.1 75.3

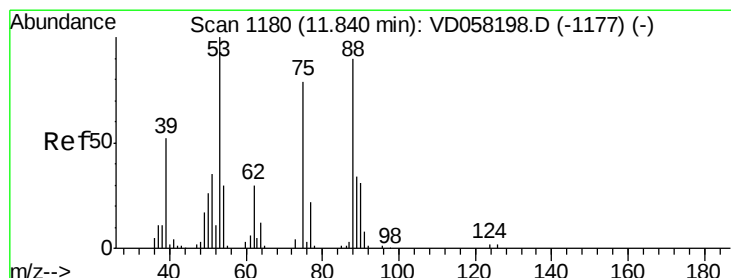
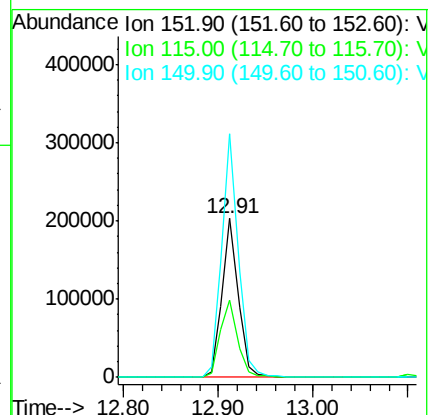
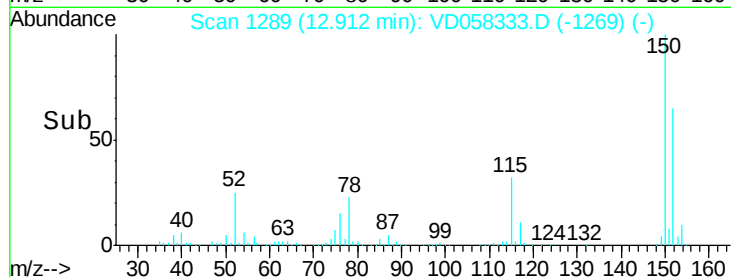
150 153.2 0.0 308.8



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: 140.514 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058333.D

Acq: 23 Jun 2018 10:23

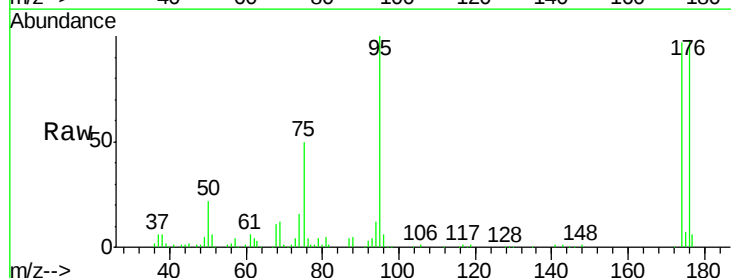
Tgt Ion: 75 Resp: 122108

Ion Ratio Lower Upper

75 100

53 0.0 100.8 151.2#

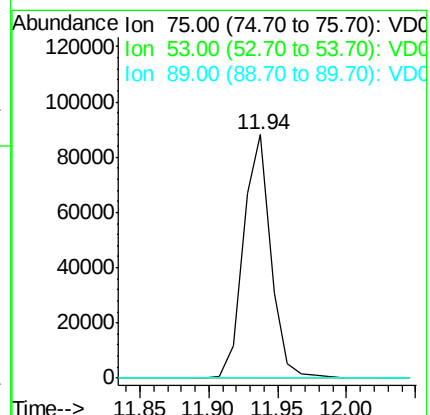
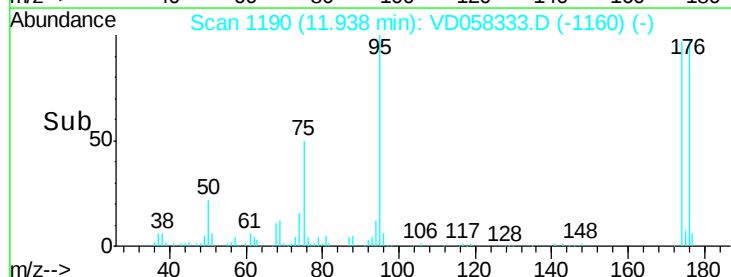
89 0.0 34.6 52.0#

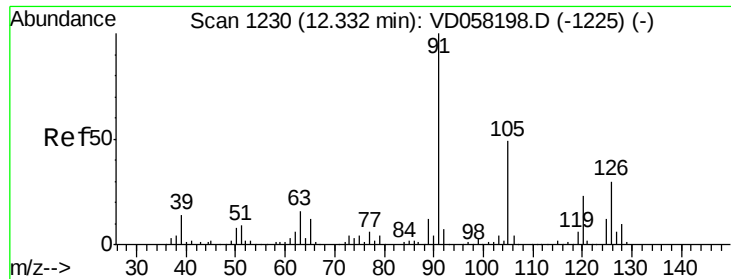


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

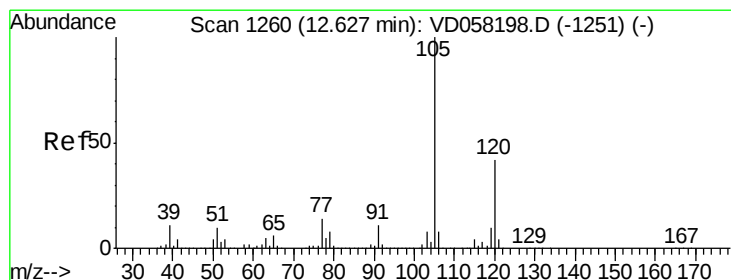
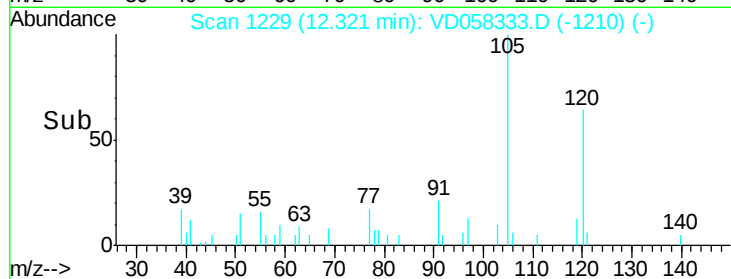
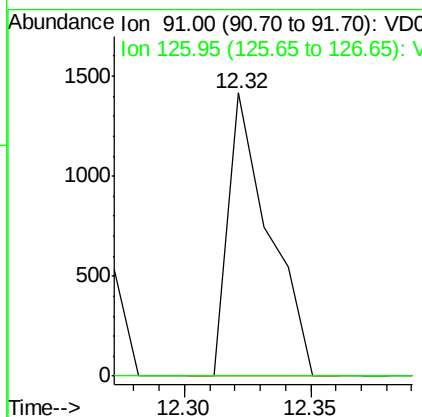
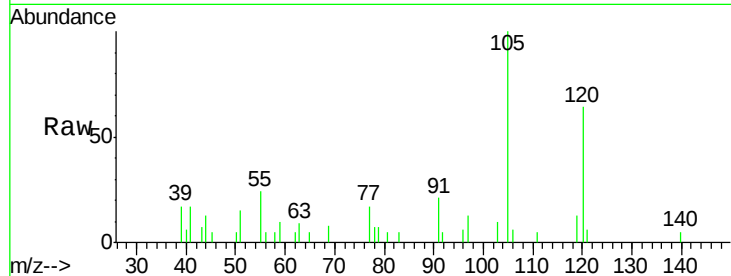




#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.32 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: VD058333.D
 Acq: 23 Jun 2018 10:23

Instrument :
 MSVOA_D
 ClientSampleId :
 TR-05-062118RE

Tot Ion: 91 Resp: 1600
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#



#84
 1,2,4-Trimethylbenzene
 Concen: 2.291 ug/l
 RT: 12.63 min Scan# 1260
 Delta R.T. -0.00 min
 Lab File: VD058333.D
 Acq: 23 Jun 2018 10:23

Tgt Ion: 105 Resp: 28350
 Ion Ratio Lower Upper
 105 100
 120 40.0 20.8 62.4

