

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092518\
 Data File : VD060090.D
 Acq On : 25 Sep 2018 13:45
 Operator : VA/AP
 Sample : J5017-04RE
 Misc : 5.05g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Quant Time: Sep 25 15:12:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D091318S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 13 16:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1732430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.42	114	2457583	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.27	117	1858974	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.37	152	740145	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.76	65	742527	54.96	ug/l	0.00
Spiked Amount			Recovery	=	109.92%	
35) Dibromofluoromethane	6.30	113	945515	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
50) Toluene-d8	9.44	98	2490881	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
62) 4-Bromofluorobenzene	12.42	95	809569	39.82	ug/l	0.00
Spiked Amount			Recovery	=	79.64%	

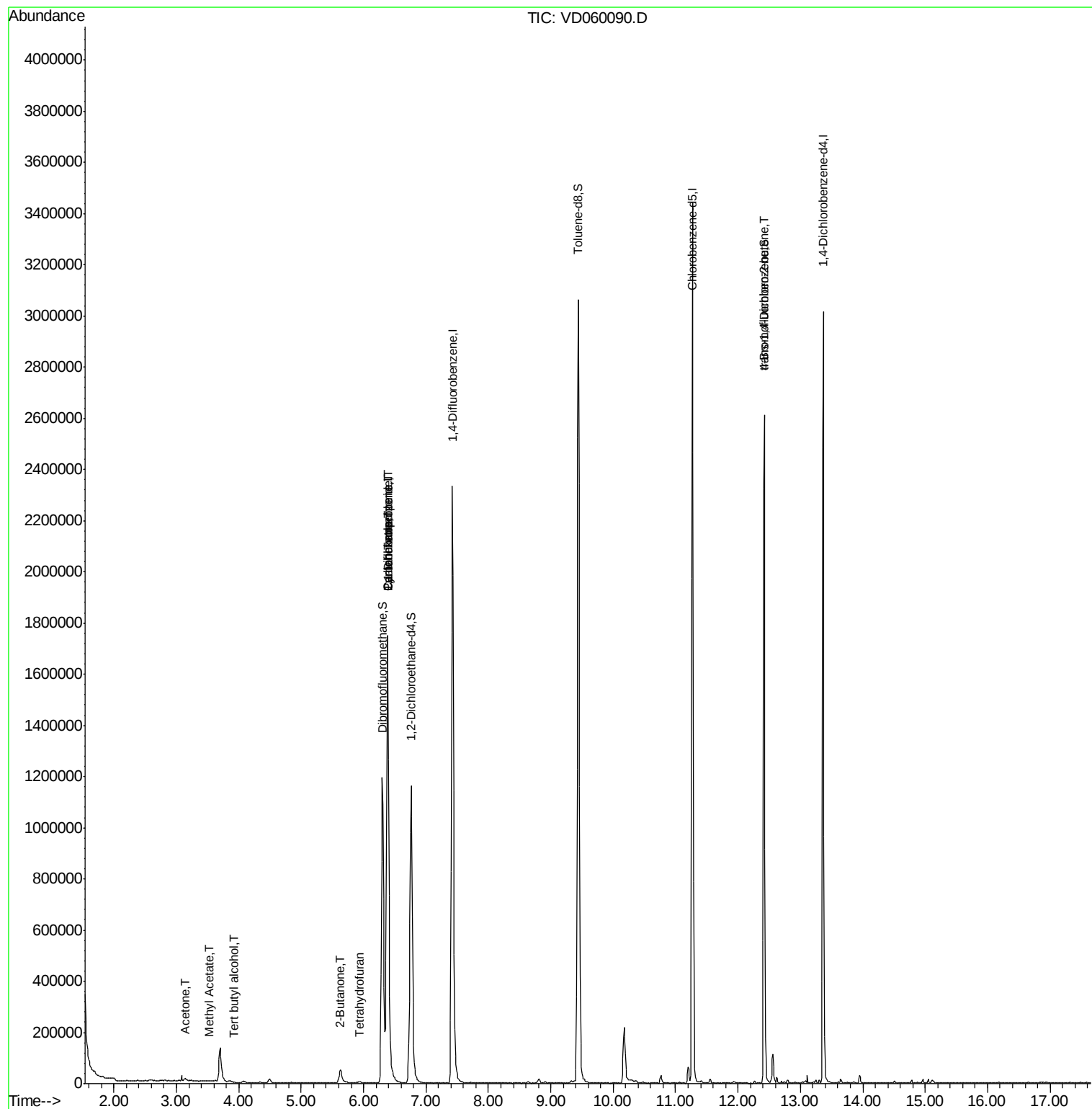
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.94	59	1552	1.424	ug/l #	74
16) Acetone	3.14	43	22788	8.736	ug/l	91
18) Methyl Acetate	3.54	43	5762	1.086	ug/l #	64
20) Methylene Chloride	3.70	84	83197	Below Cal		94
25) 2-Butanone	5.61	43	9653	1.371	ug/l #	89
29) Tetrahydrofuran	5.95	42	4995	1.323	ug/l #	83
31) Cyclohexane	6.38	56	33981	1.133	ug/l #	1
36) 1,1-Dichloropropene	6.39	75	116057	4.754	ug/l #	46
38) Carbon Tetrachloride	6.39	117	135819	5.960	ug/l #	16
51) 4-Methyl-2-Pentanone	9.32	43	11891	Below Cal		91
59) 2-Hexanone	10.48	43	5519	Below Cal		91
81) trans-1,4-Dichloro-2-buten	12.41	75	317771	93.126	ug/l #	15
89) n-Butylbenzene	13.64	91	3597	Below Cal		92
91) 1,2-Dichlorobenzene	13.65	146	3867	Below Cal		97

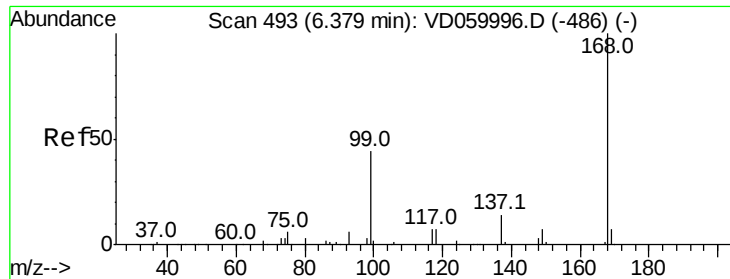
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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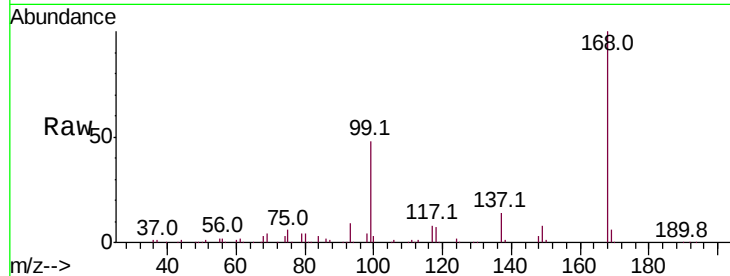


#1

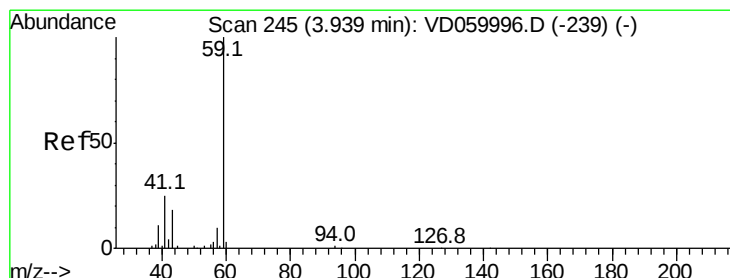
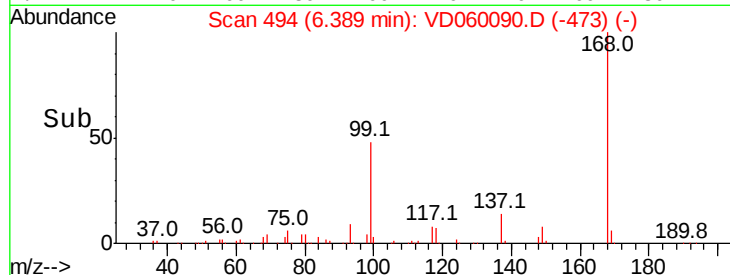
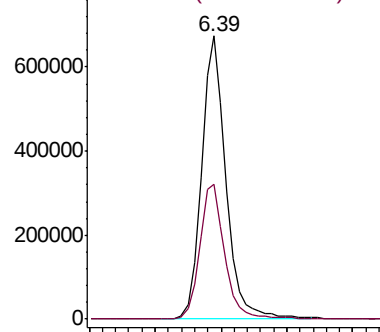
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 6.39 min Scan# 494
 Delta R.T. 0.01 min
 Lab File: VD060090.D
 Acq: 25 Sep 2018 13:45

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Tot Ion:168 Resp: 1732430
 Ion Ratio Lower Upper
 168 100
 99 47.7 38.5 57.7



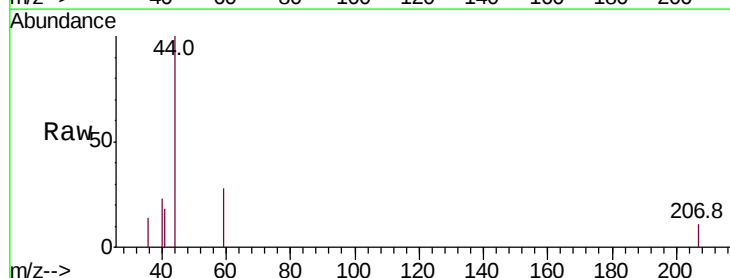
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



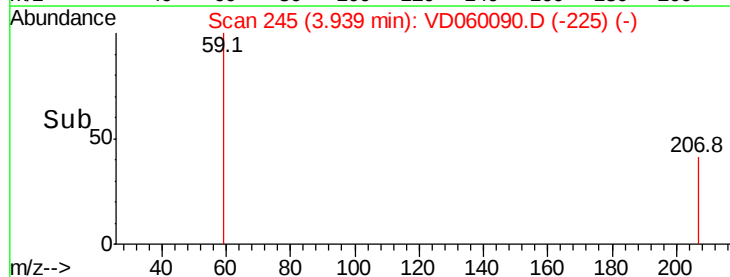
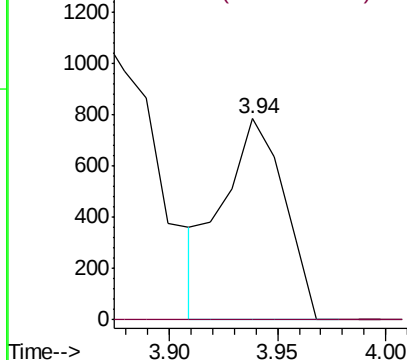
#11

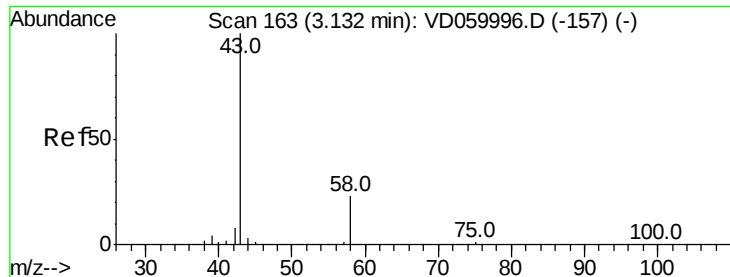
Tert butyl alcohol
 Concen: 1.424 ug/l
 RT: 3.94 min Scan# 245
 Delta R.T. 0.00 min
 Lab File: VD060090.D
 Acq: 25 Sep 2018 13:45

Tgt Ion: 59 Resp: 1552
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.4 11.2#



Abundance Ion 58.95 (58.65 to 59.65): VDC
 Ion 56.95 (56.65 to 57.65): VDC





#16

Acetone

Concen: 8.736 ug/l

RT: 3.14 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

Instrument :

MSVOA_D

ClientSampleId :

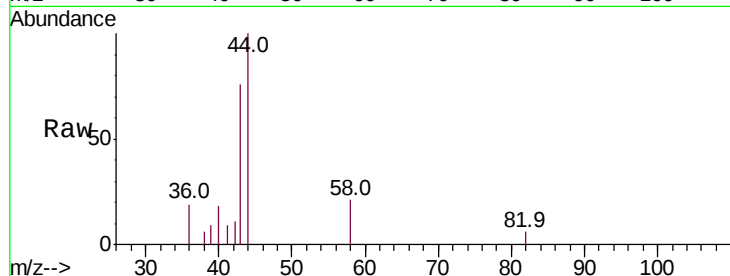
RA-091918-S-SW-058

Tot Ion: 43 Resp: 22788

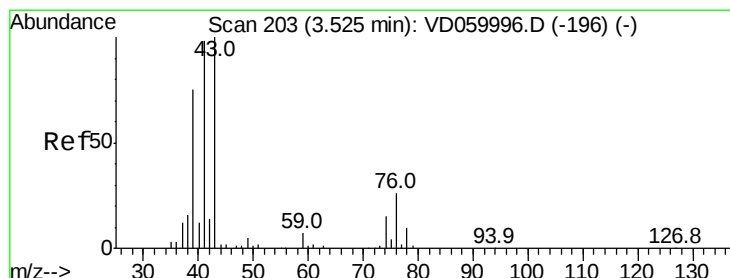
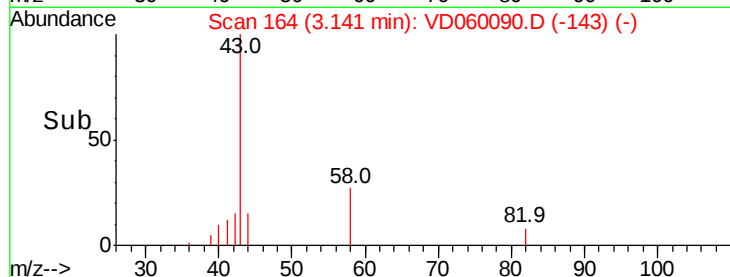
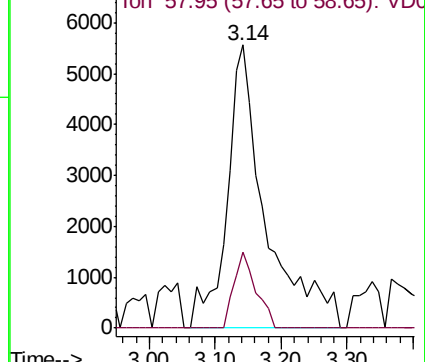
Ion Ratio Lower Upper

43 100

58 27.0 18.1 27.1



Abundance Ion 42.95 (42.65 to 43.65): VDC



#18

Methyl Acetate

Concen: 1.086 ug/l

RT: 3.54 min Scan# 204

Delta R.T. 0.01 min

Lab File: VD060090.D

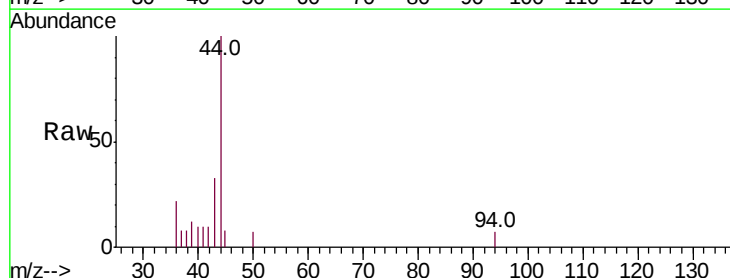
Acq: 25 Sep 2018 13:45

Tgt Ion: 43 Resp: 5762

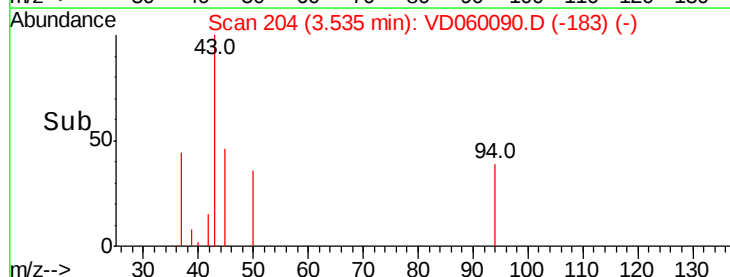
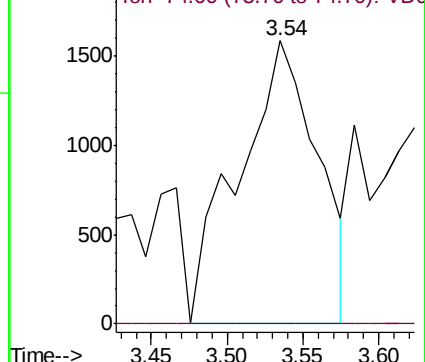
Ion Ratio Lower Upper

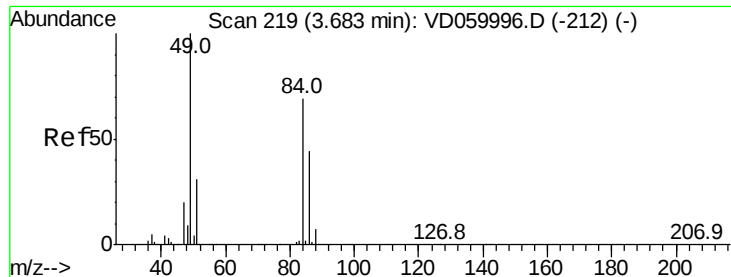
43 100

74 0.0 11.8 17.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

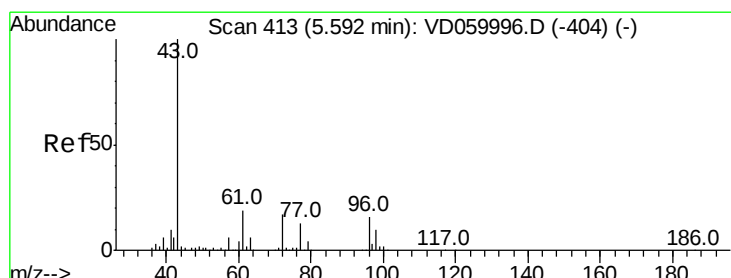
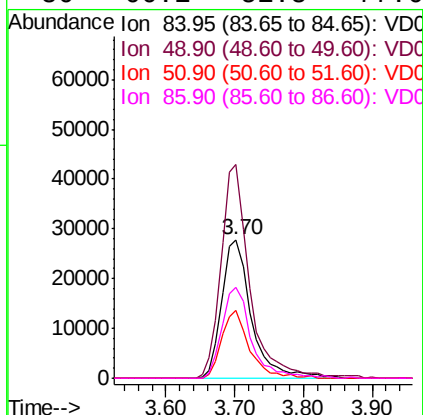
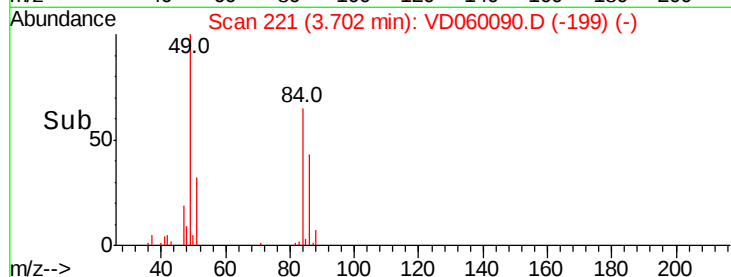
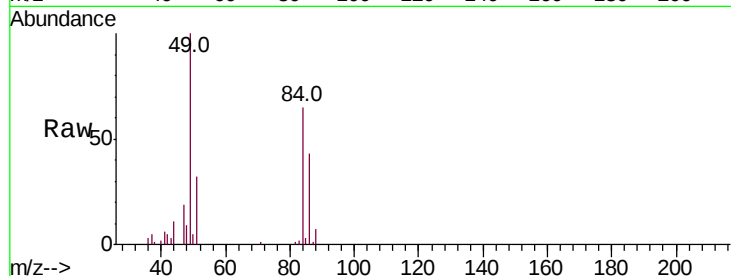




#20
Methylene Chloride
Concen: Below Cal
RT: 3.70 min Scan# 221
Delta R.T. 0.02 min
Lab File: VD060090.D
Acq: 25 Sep 2018 13:45

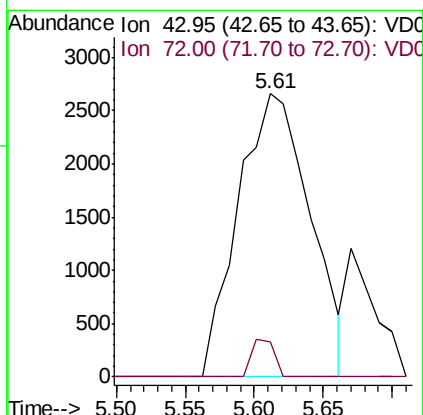
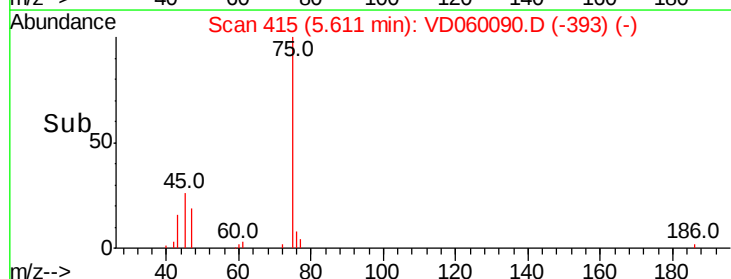
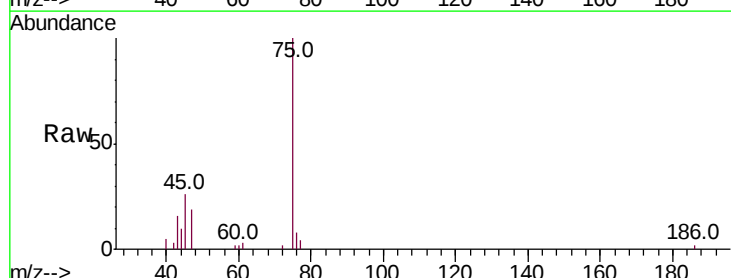
Instrument :
MSVOA_D
ClientSampleId :
RA-091918-S-SW-058

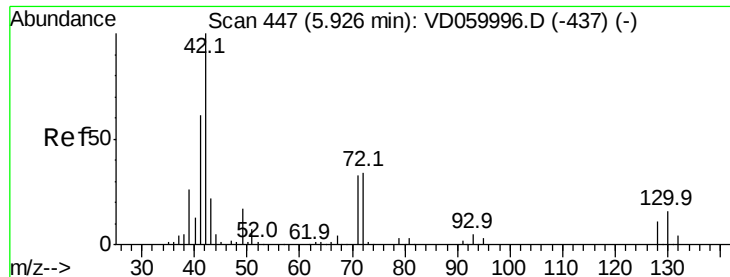
Tot Ion: 84 Resp: 83197
Ion Ratio Lower Upper
84 100
49 154.3 116.6 175.0
51 49.3 35.9 53.9
86 66.1 51.8 77.6



#25
2-Butanone
Concen: 1.371 ug/l
RT: 5.61 min Scan# 415
Delta R.T. 0.02 min
Lab File: VD060090.D
Acq: 25 Sep 2018 13:45

Tgt Ion: 43 Resp: 9653
Ion Ratio Lower Upper
43 100
72 12.2 13.6 20.4#





#29

Tetrahydrofuran

Concen: 1.323 ug/l

RT: 5.95 min Scan# 449

Delta R.T. 0.02 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058

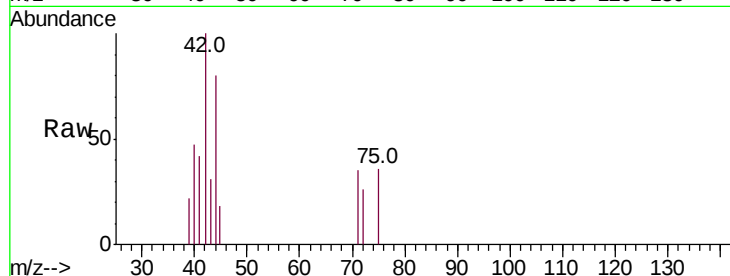
Tot Ion: 42 Resp: 4995

Ion Ratio Lower Upper

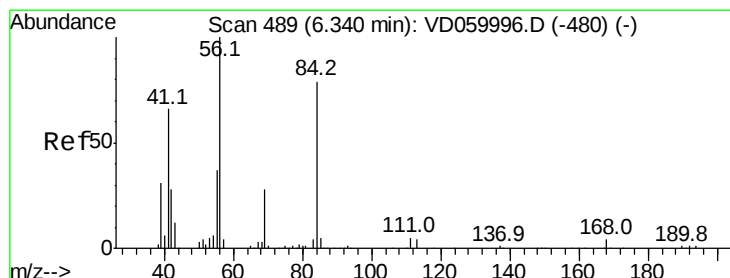
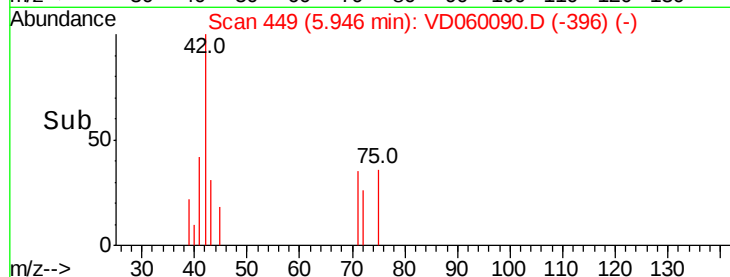
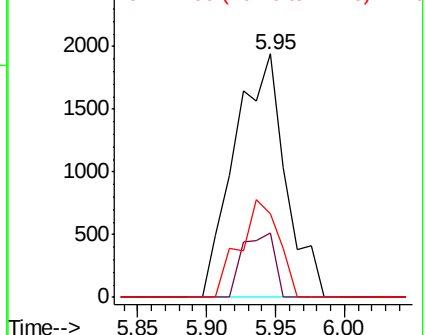
42 100

72 16.6 26.9 40.3#

71 30.9 26.2 39.4



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#31

Cyclohexane

Concen: 1.133 ug/l

RT: 6.38 min Scan# 493

Delta R.T. 0.04 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

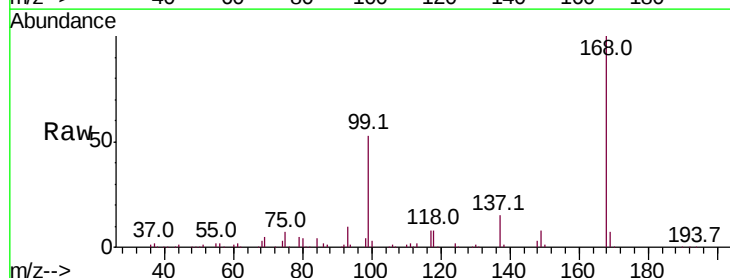
Tgt Ion: 56 Resp: 33981

Ion Ratio Lower Upper

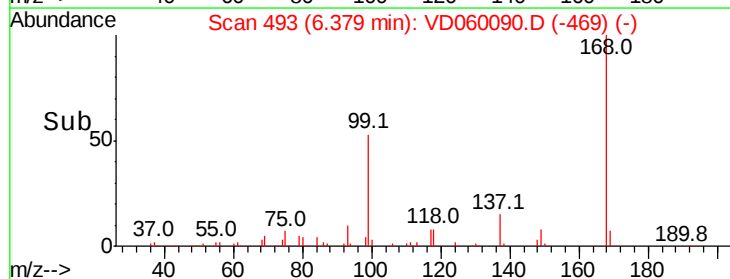
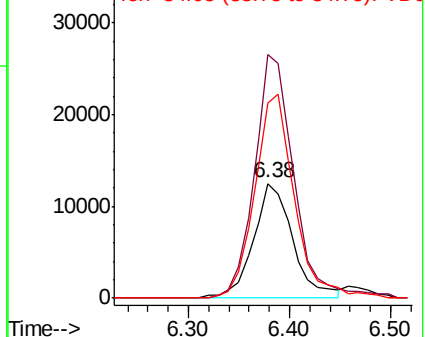
56 100

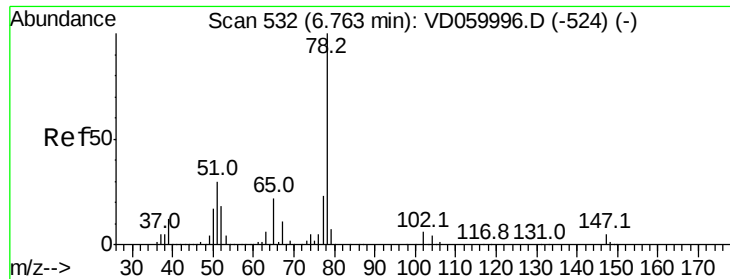
69 212.5 22.7 34.1#

84 169.7 64.0 96.0#



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: Below ug/l

RT: 6.76 min Scan# 532

Delta R.T. 0.00 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

Instrument :

MSVOA_D

ClientSampleId :

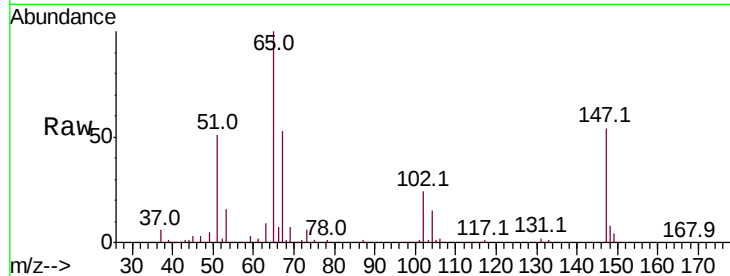
RA-091918-S-SW-058

Tot Ion: 65 Resp: 742527

Ion Ratio Lower Upper

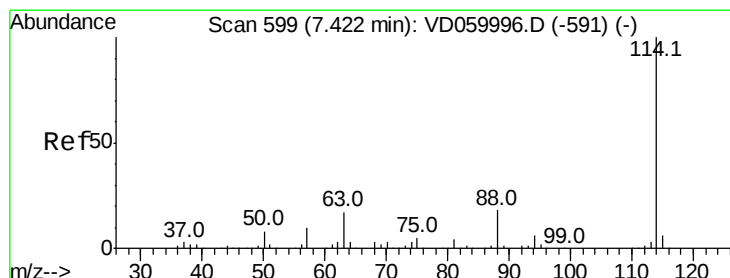
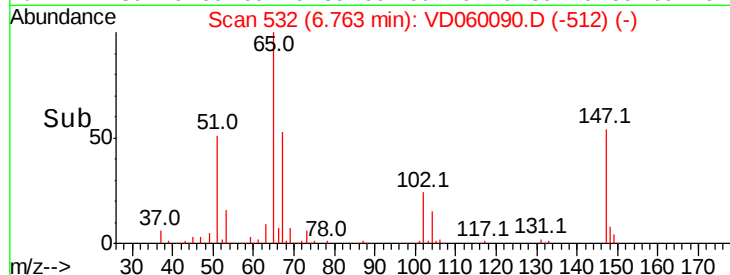
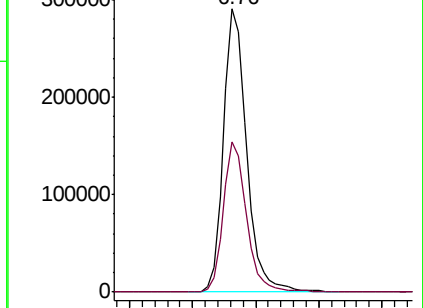
65 100

67 53.3 0.0 104.8



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: 7.42 min Scan# 599

Delta R.T. 0.00 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

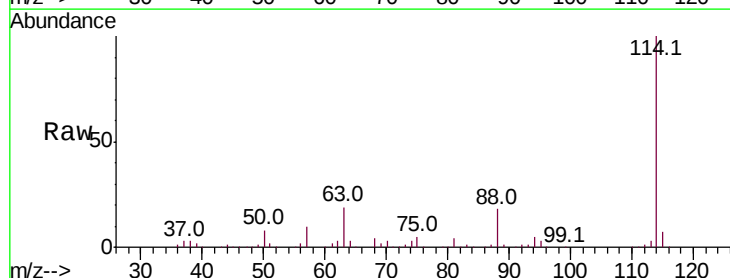
Tgt Ion:114 Resp: 2457583

Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.4

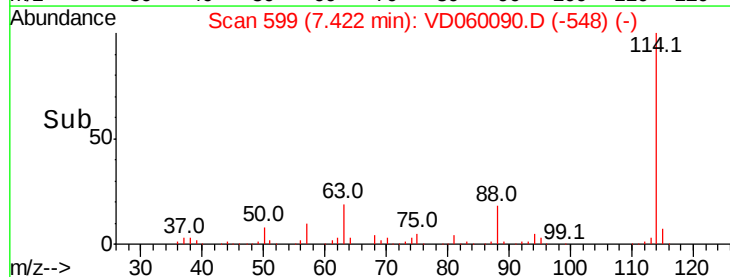
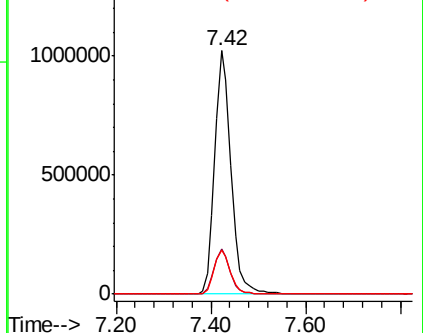
88 18.3 0.0 35.8

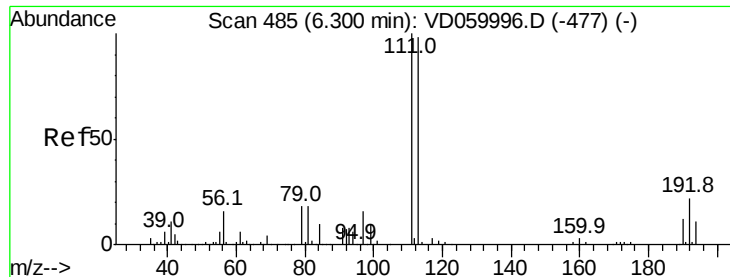


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

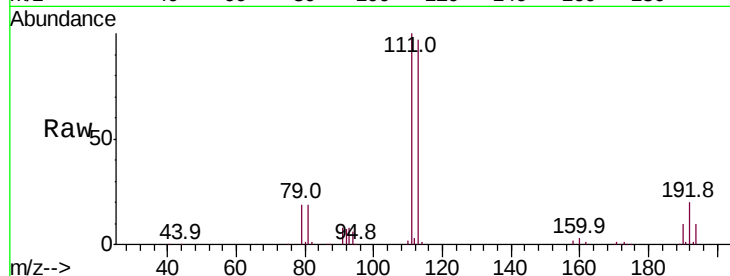




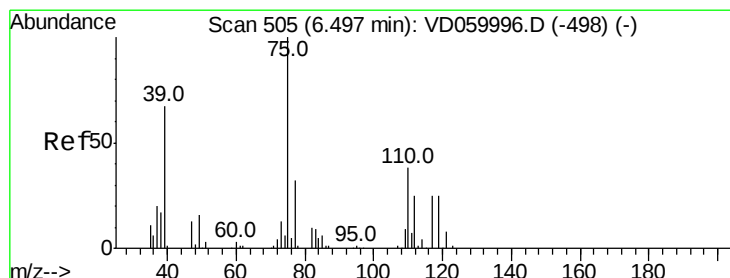
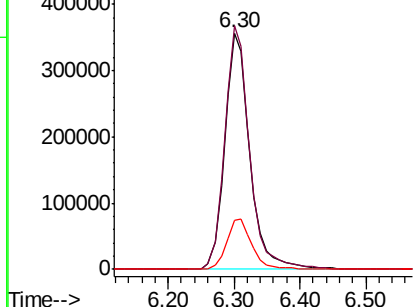
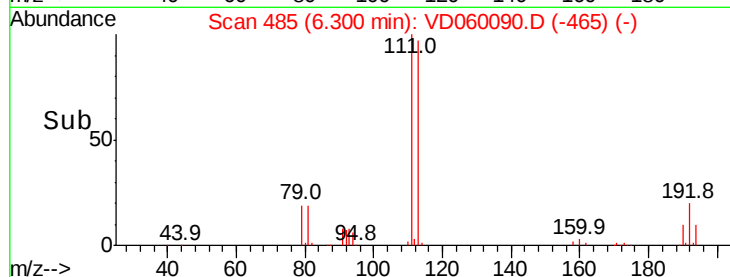
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.30 min Scan# 485
 Delta R.T. 0.00 min
 Lab File: VD060090.D
 Acq: 25 Sep 2018 13:45

Instrument :
 MSVOA_D
 ClientSampleId :
 RA-091918-S-SW-058

Tot Ion:113 Resp: 945515
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.3 121.9
 192 20.6 18.1 27.1

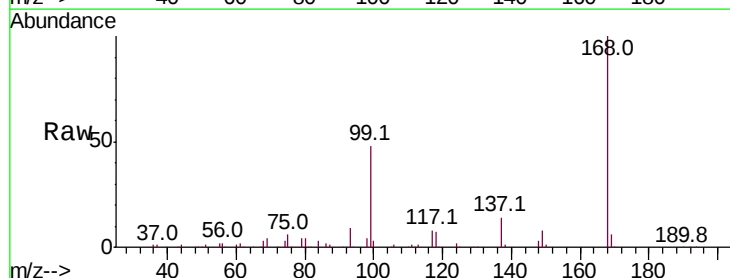


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

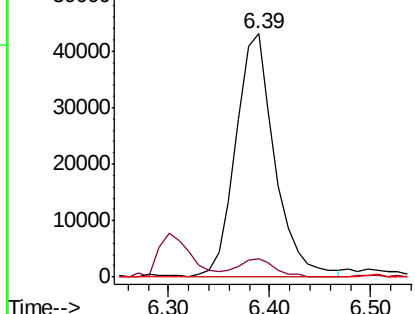
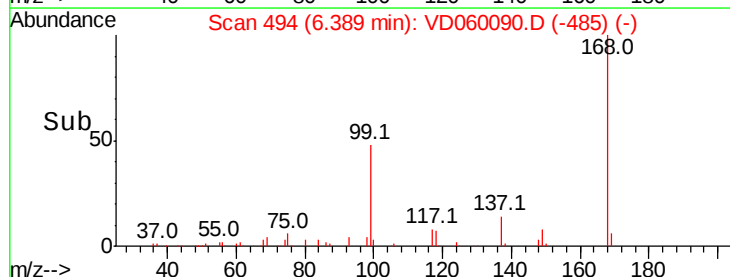


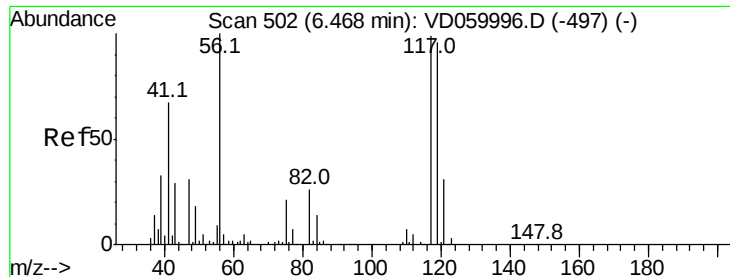
#36
 1,1-Dichloropropene
 Concen: 4.754 ug/l
 RT: 6.39 min Scan# 494
 Delta R.T. -0.11 min
 Lab File: VD060090.D
 Acq: 25 Sep 2018 13:45

Tgt Ion: 75 Resp: 116057
 Ion Ratio Lower Upper
 75 100
 110 7.4 18.9 56.9#
 77 0.0 25.3 37.9#



Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.95 (76.65 to 77.65): VDC





#38

Carbon Tetrachloride

Concen: 5.960 ug/l

RT: 6.39 min Scan# 494

Delta R.T. -0.08 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058

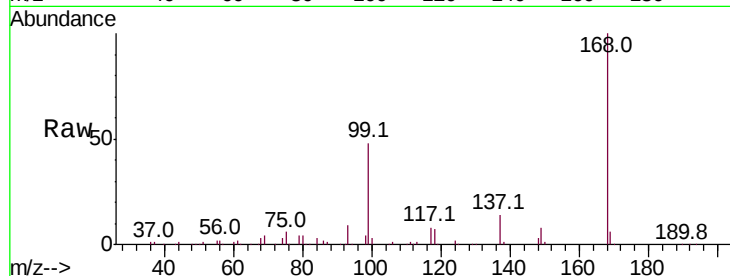
Tot Ion:117 Resp: 135819

Ion Ratio Lower Upper

117 100

119 4.5 76.7 115.1#

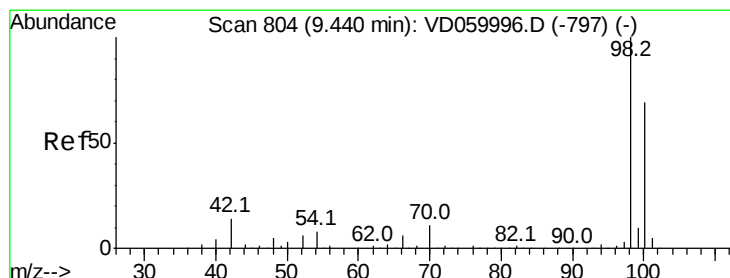
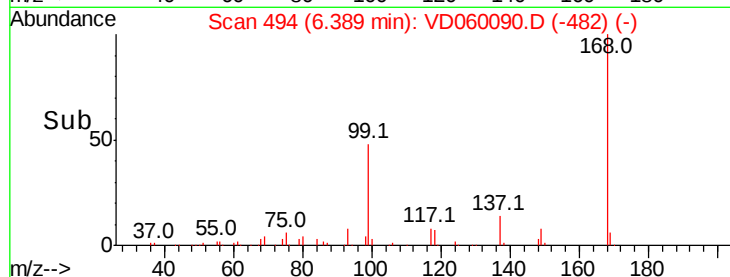
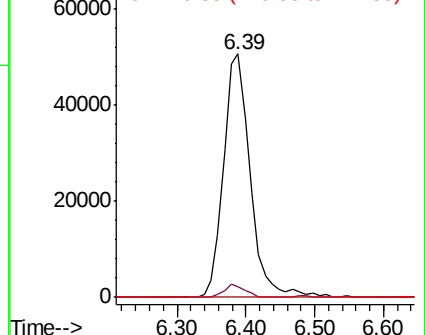
121 0.0 24.9 37.3#



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: 9.44 min Scan# 804

Delta R.T. 0.00 min

Lab File: VD060090.D

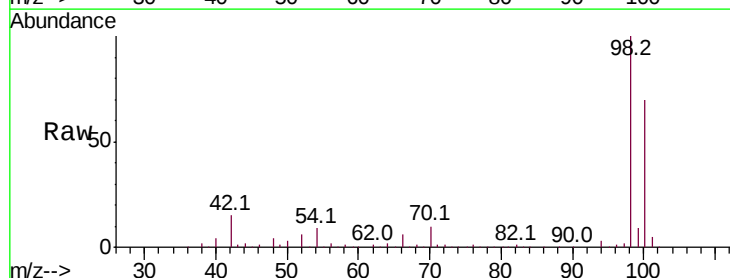
Acq: 25 Sep 2018 13:45

Tgt Ion: 98 Resp: 2490881

Ion Ratio Lower Upper

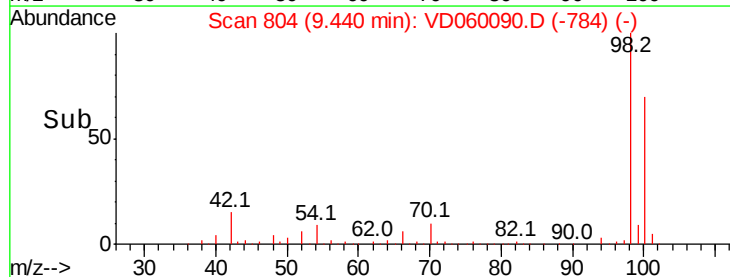
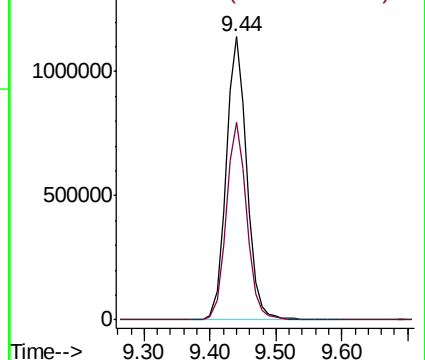
98 100

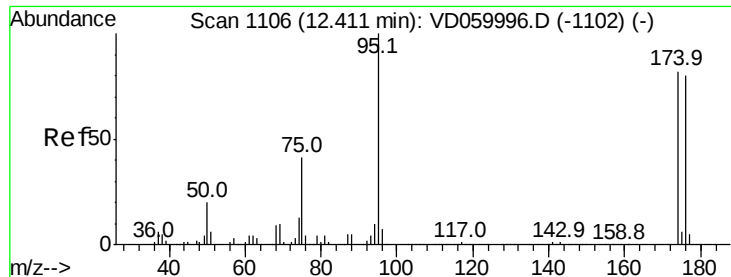
100 69.7 55.8 83.6



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.42 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058

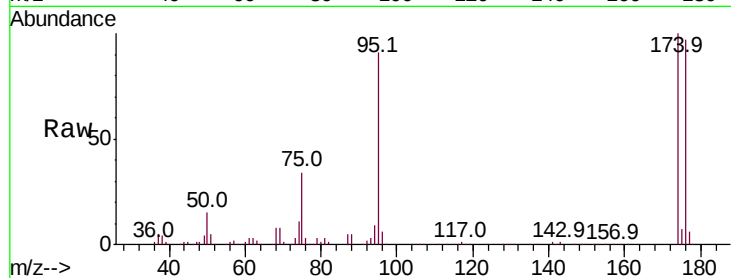
Tot Ion: 95 Resp: 809569

Ion Ratio Lower Upper

95 100

174 109.4 0.0 165.0

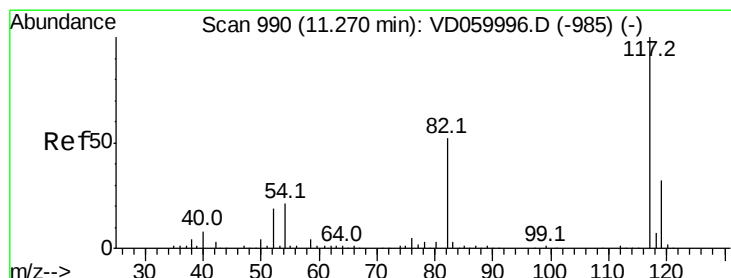
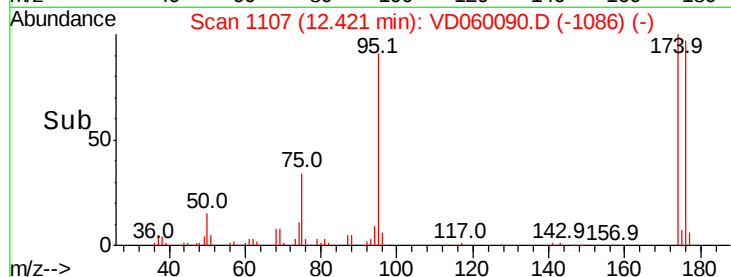
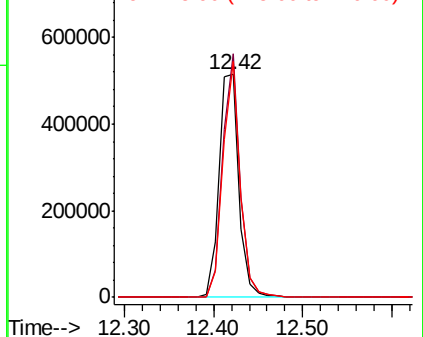
176 105.9 0.0 160.2



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: 11.27 min Scan# 990

Delta R.T. 0.00 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

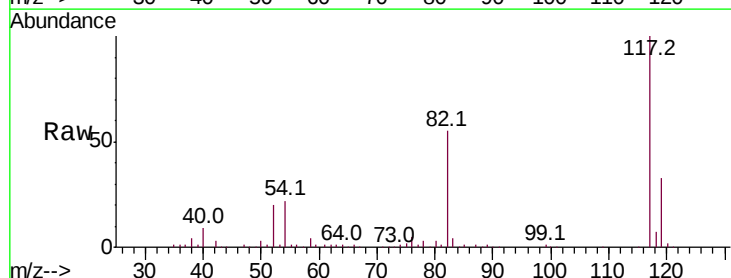
Tgt Ion: 117 Resp: 1858974

Ion Ratio Lower Upper

117 100

82 55.1 41.7 62.5

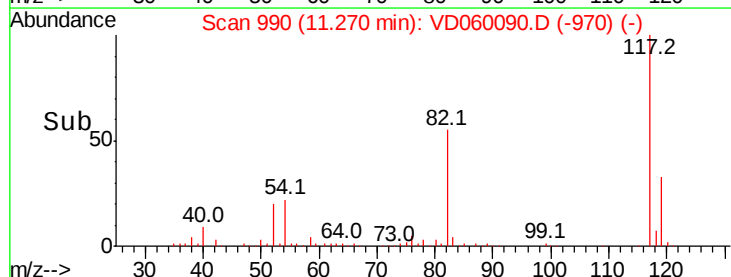
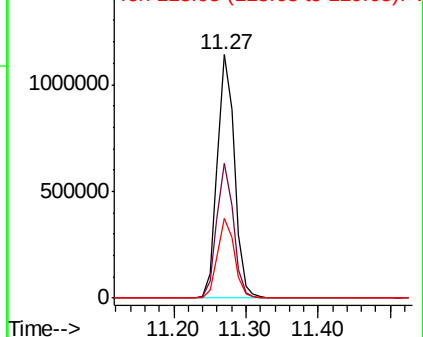
119 32.8 26.0 39.0

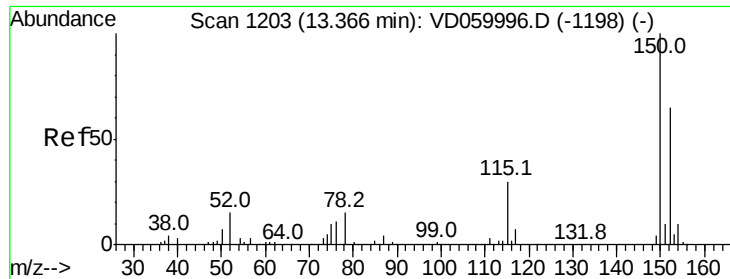


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.37 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

Instrument :

MSVOA_D

ClientSampleId :

RA-091918-S-SW-058

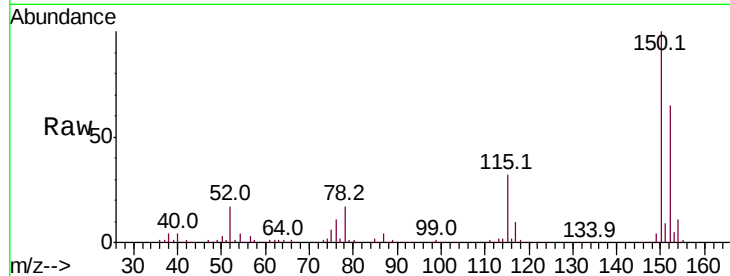
Tot Ion:152 Resp: 740145

Ion Ratio Lower Upper

152 100

115 48.4 24.6 73.8

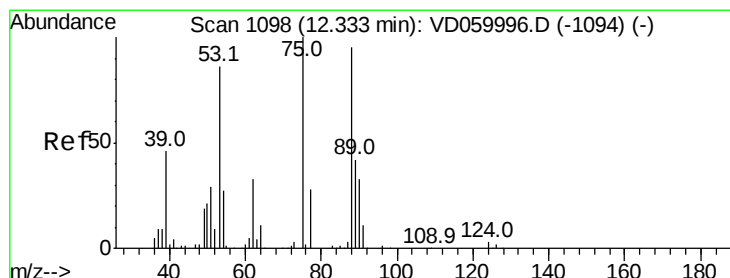
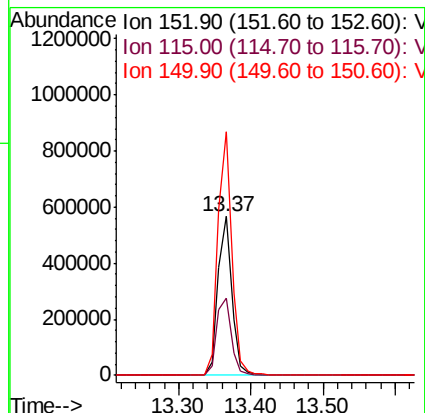
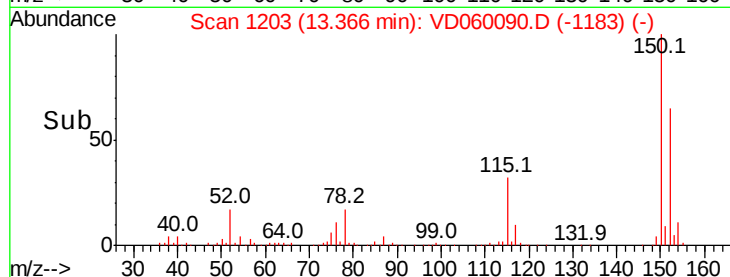
150 153.1 0.0 313.4



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: 93.126 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.08 min

Lab File: VD060090.D

Acq: 25 Sep 2018 13:45

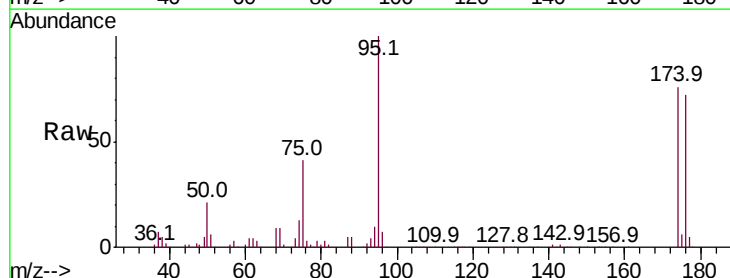
Tgt Ion: 75 Resp: 317771

Ion Ratio Lower Upper

75 100

53 0.0 68.4 102.6#

89 0.0 33.8 50.6#



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

