

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122018\
 Data File : VD060670.D
 Acq On : 20 Dec 2018 20:44
 Operator : VA/AP
 Sample : J6465-04
 Misc : 5.40g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 21 03:40:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 03:34:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.41	168	1433974	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	7.44	114	1997289	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.29	117	1377047	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.38	152	467976	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.79	65	446157	45.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.04%	
35) Dibromofluoromethane	6.33	113	610245	41.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.48%	
50) Toluene-d8	9.46	98	1511414	34.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.30%	
62) 4-Bromofluorobenzene	12.43	95	435400	28.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	57.00%	

Target Compounds

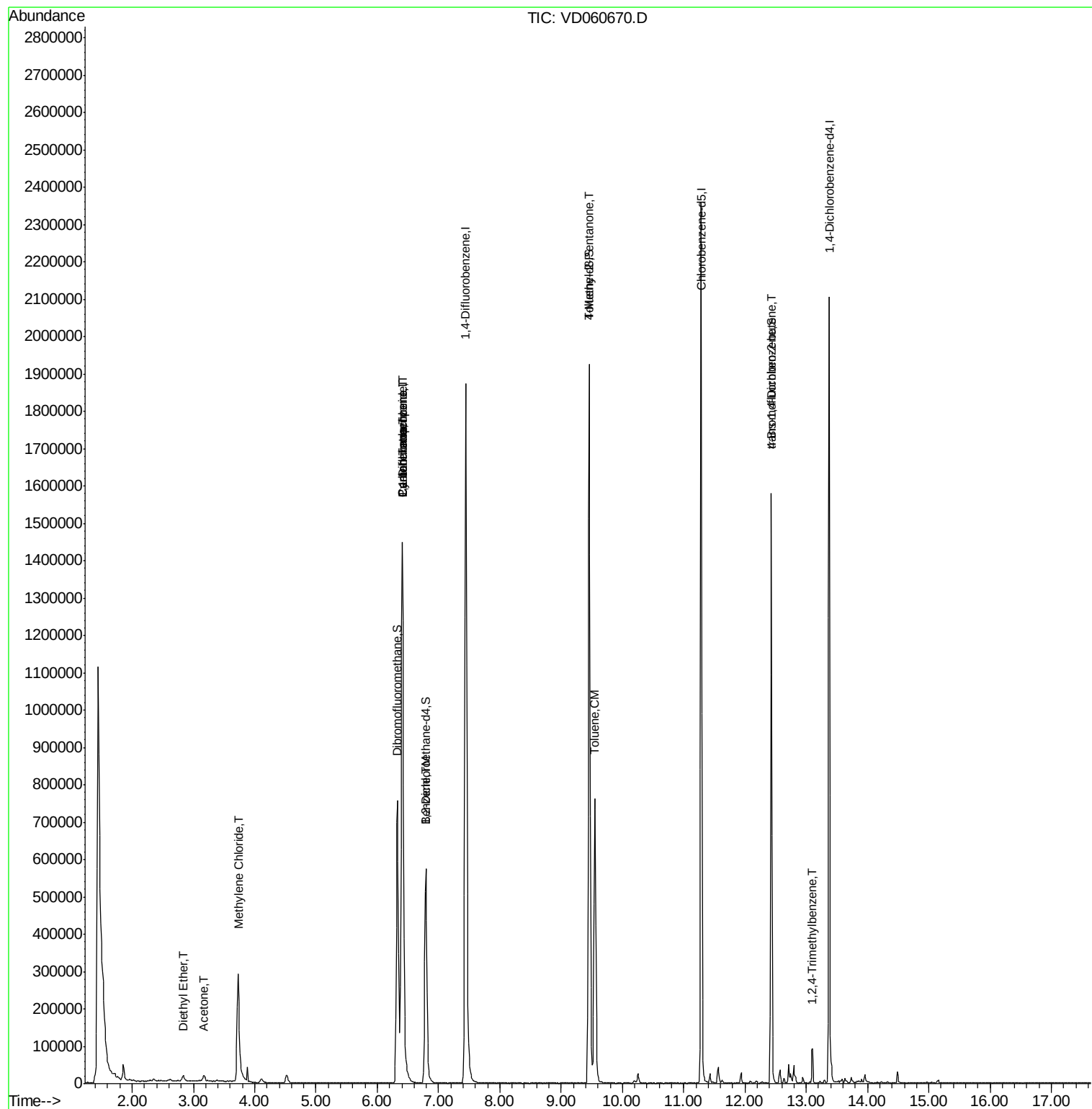
					Qvalue
8) Diethyl Ether	2.84	74	5540	2.224	ug/l 93
16) Acetone	3.17	43	32061	18.526	ug/l 96
20) Methylene Chloride	3.72	84	201845	11.231	ug/l 97
31) Cyclohexane	6.41	56	27561	1.101	ug/l # 1
36) 1,1-Dichloropropene	6.41	75	100610	4.892	ug/l # 46
38) Carbon Tetrachloride	6.41	117	110612	6.096	ug/l # 16
40) Benzene	6.79	78	68434	1.288	ug/l 99
51) 4-Methyl-2-Pentanone	9.46	43	7498	1.109	ug/l # 1
52) Toluene	9.55	92	406759	12.214	ug/l 96
81) trans-1,4-Dichloro-2-buten	12.43	75	178713	121.391	ug/l # 13
84) 1,2,4-Trimethylbenzene	13.10	105	45898	1.732	ug/l 91

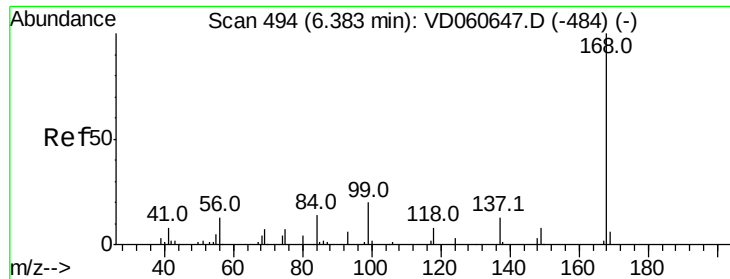
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 21 03:34:39 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 527

Delta R.T. 0.00 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

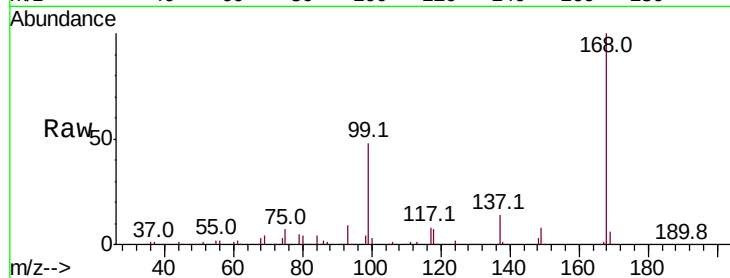
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 1433974

Ion Ratio Lower Upper

168 100

99 47.9 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.41

500000

400000

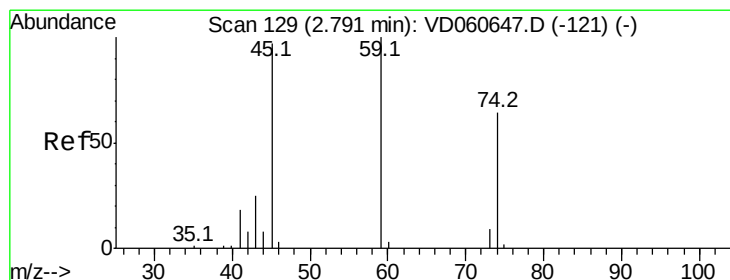
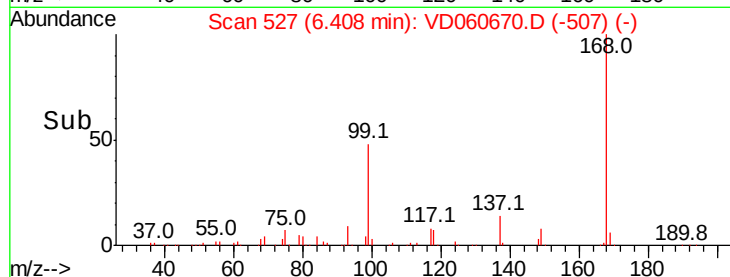
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 2.224 ug/l

RT: 2.84 min Scan# 164

Delta R.T. 0.00 min

Lab File: VD060670.D

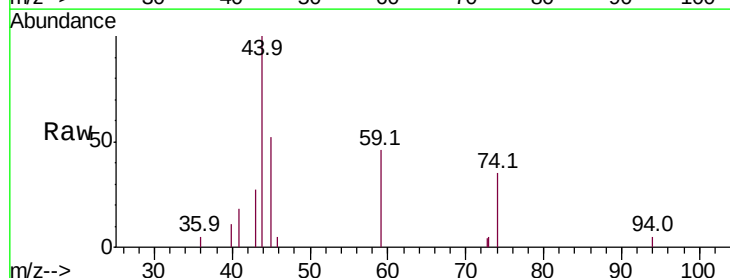
Acq: 20 Dec 2018 20:44

Tgt Ion: 74 Resp: 5540

Ion Ratio Lower Upper

74 100

45 149.6 79.3 238.1



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

2.84

4000

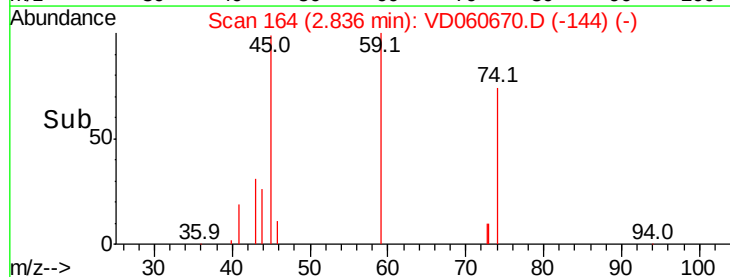
3000

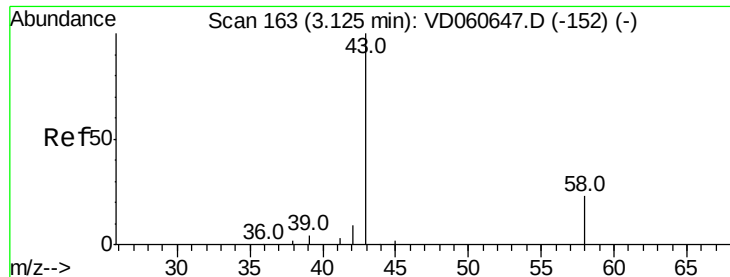
2000

1000

0

Time-->





#16

Acetone

Concen: 18.526 ug/l

RT: 3.17 min Scan# 198

Delta R.T. 0.00 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

Instrument :

MSVOA_D

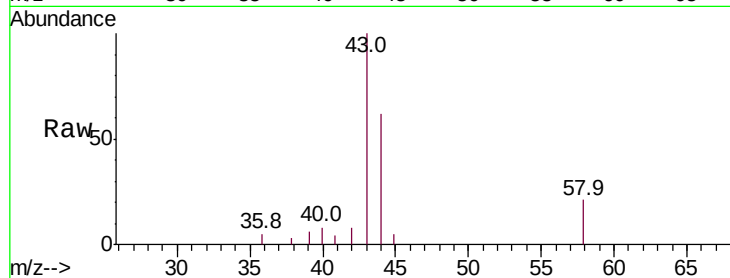
ClientSampled :

Tot Ion: 43 Resp: 32061

Ion Ratio Lower Upper

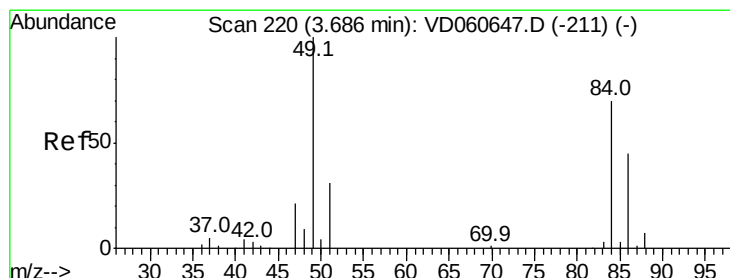
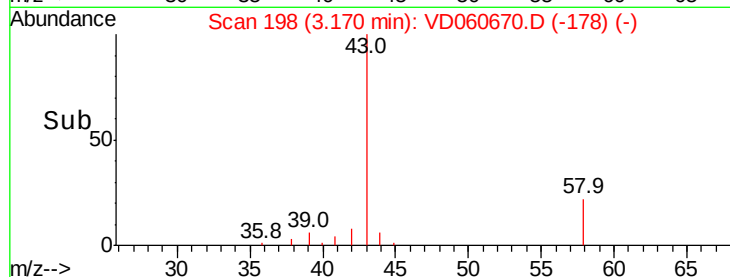
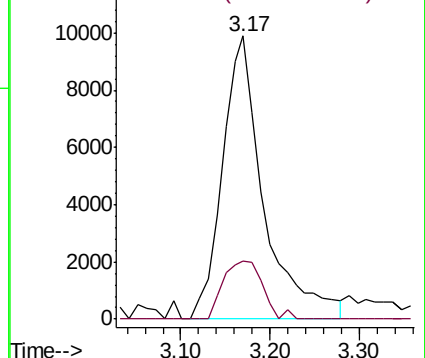
43 100

58 20.5 18.2 27.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 11.231 ug/l

RT: 3.72 min Scan# 254

Delta R.T. -0.01 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

Tgt Ion: 84 Resp: 201845

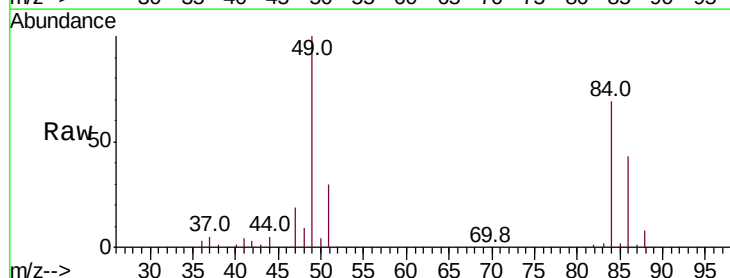
Ion Ratio Lower Upper

84 100

49 144.6 113.6 170.4

51 43.8 34.7 52.1

86 61.5 52.8 79.2

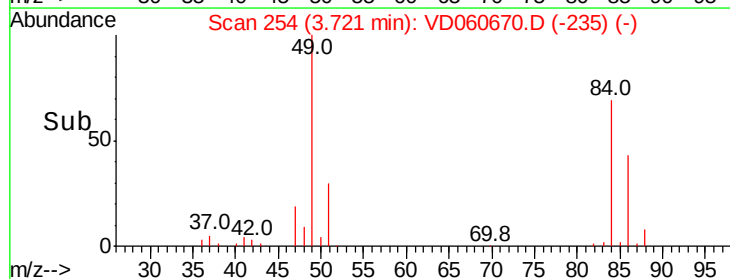
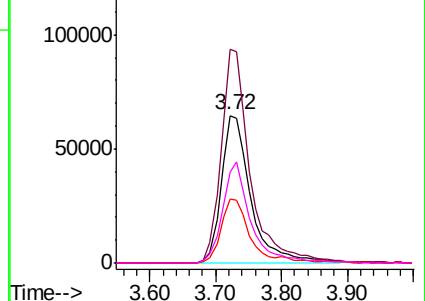


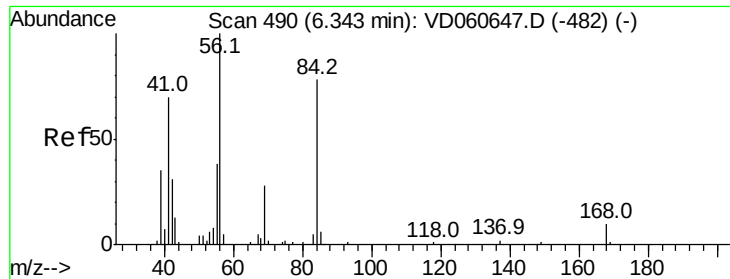
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#31

Cyclohexane

Concen: 1.101 ug/l

RT: 6.41 min Scan# 527

Delta R.T. 0.04 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

Instrument :
MSVOA_D
ClientSampled :

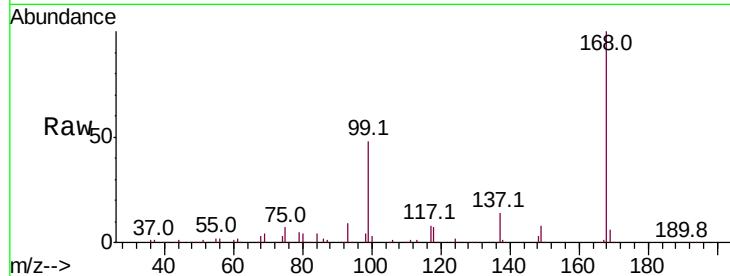
Tot Ion: 56 Resp: 27561

Ion Ratio Lower Upper

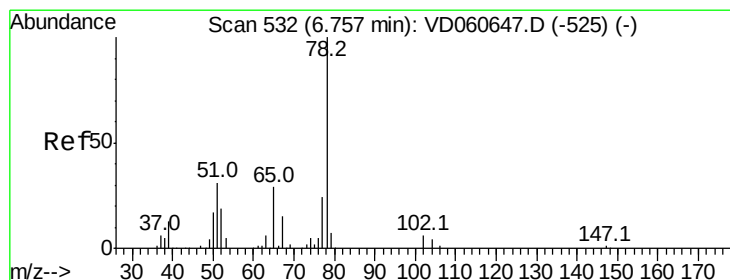
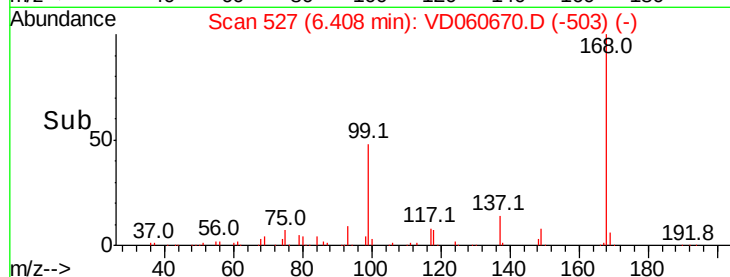
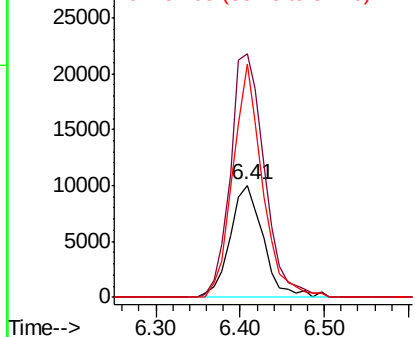
56 100

69 217.8 23.6 35.4#

84 208.8 65.8 98.6#



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: 6.79 min Scan# 566

Delta R.T. 0.00 min

Lab File: VD060670.D

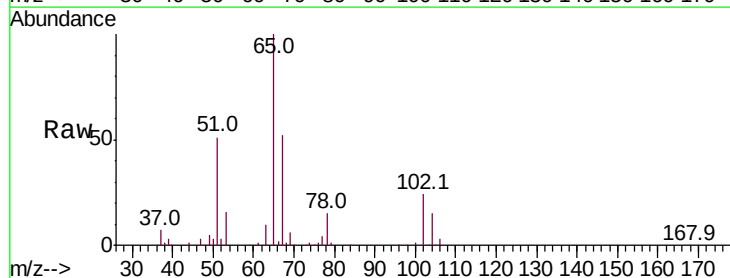
Acq: 20 Dec 2018 20:44

Tgt Ion: 65 Resp: 446157

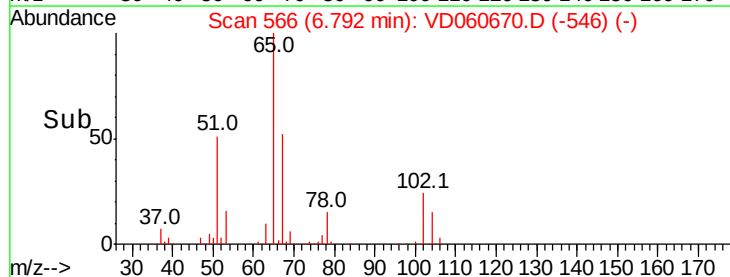
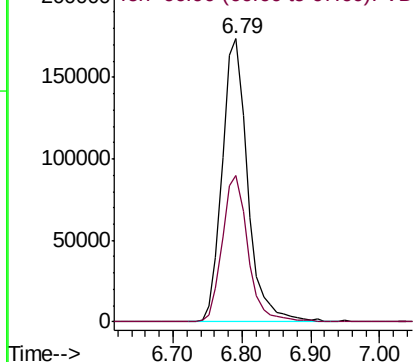
Ion Ratio Lower Upper

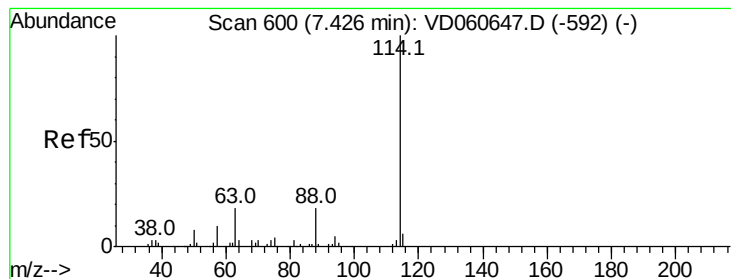
65 100

67 51.8 0.0 105.4



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: 7.44 min Scan# 632

Delta R.T. 0.00 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

Instrument :

MSVOA_D

ClientSampleId :

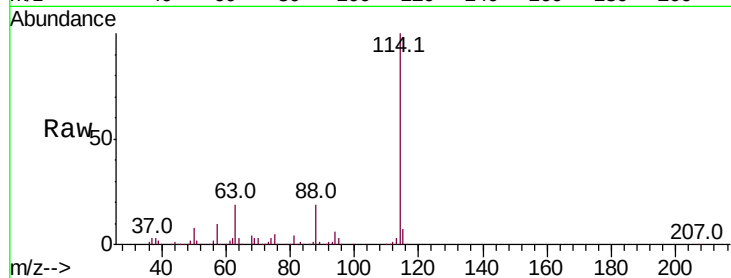
Tot Ion:114 Resp: 1997289

Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.2

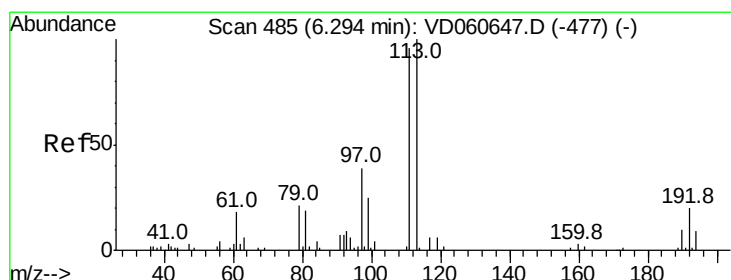
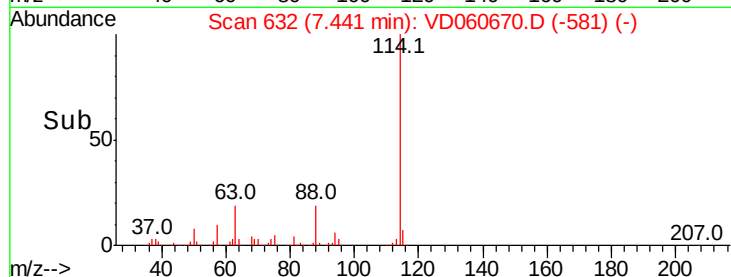
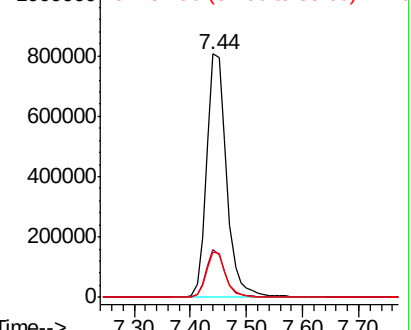
88 18.6 0.0 37.0



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: 6.33 min Scan# 519

Delta R.T. 0.00 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

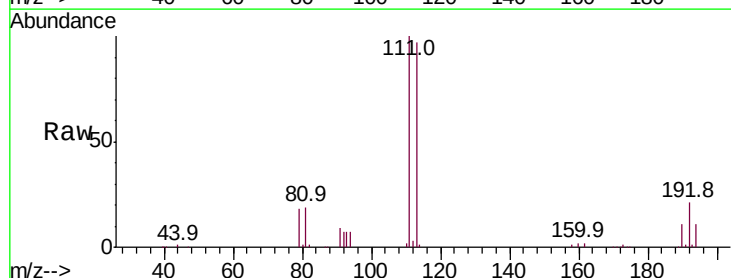
Tgt Ion:113 Resp: 610245

Ion Ratio Lower Upper

113 100

111 103.3 80.0 120.0

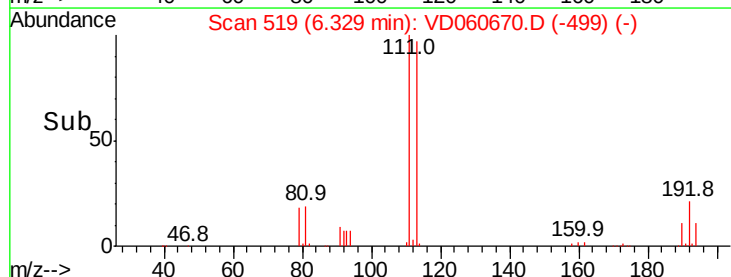
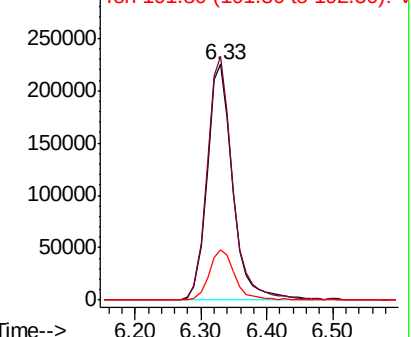
192 21.2 16.6 25.0

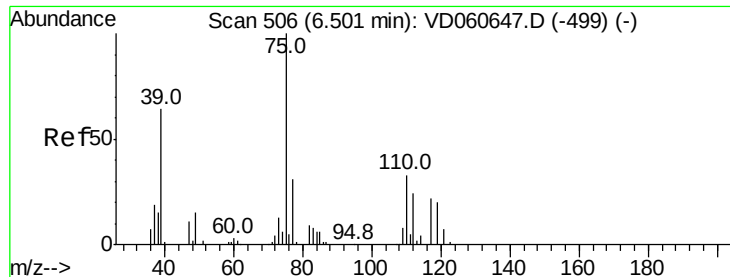


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

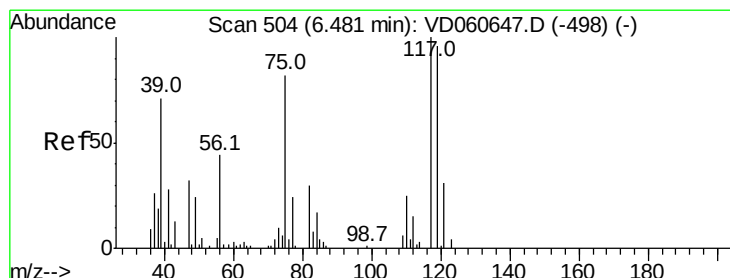
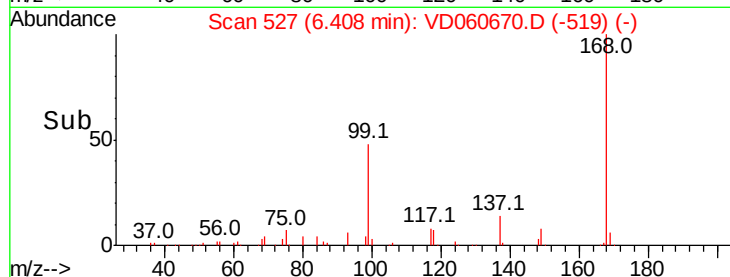
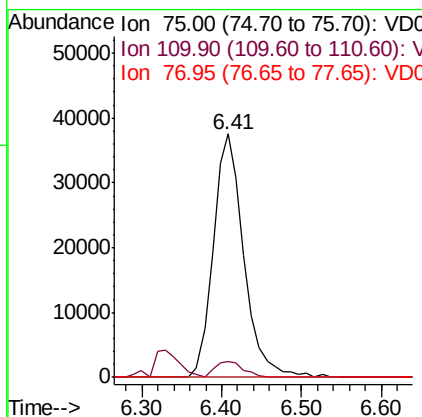
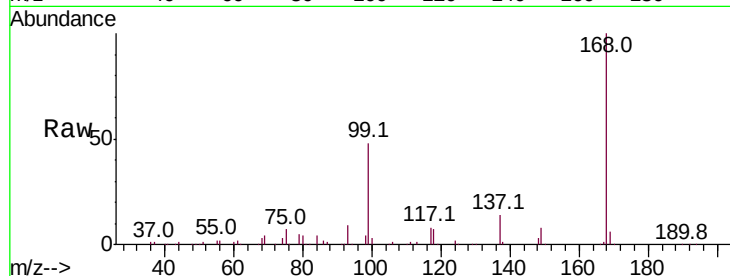




#36
 1,1-Dichloropropene
 Concen: 4.892 ug/l
 RT: 6.41 min Scan# 527
 Delta R.T. -0.12 min
 Lab File: VD060670.D
 Acq: 20 Dec 2018 20:44

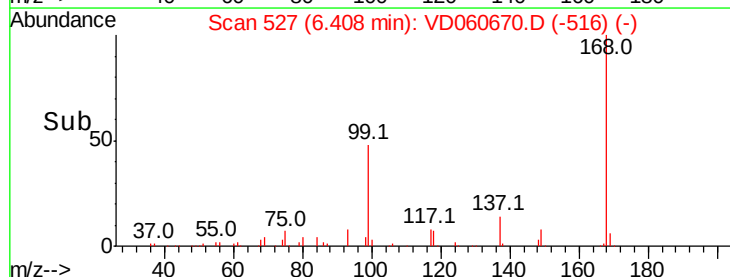
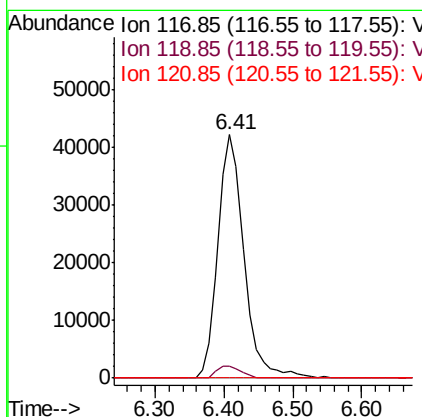
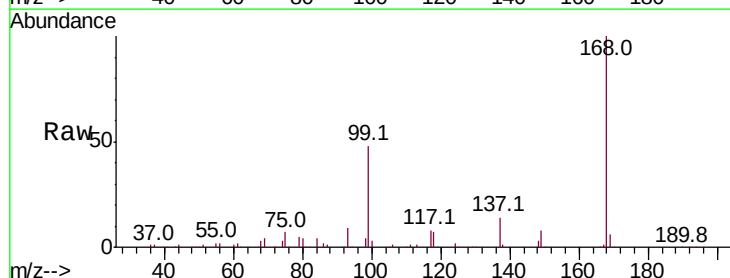
Instrument :
 MSVOA_D
 ClientSampled :

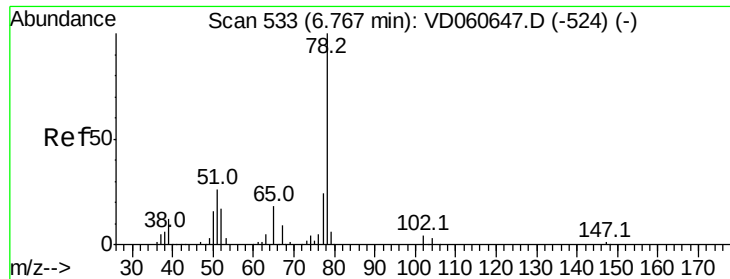
Tot Ion	Ratio	Lower	Upper
75	100		
110	6.4	18.9	56.7#
77	0.0	25.4	38.0#



#38
 Carbon Tetrachloride
 Concen: 6.096 ug/l
 RT: 6.41 min Scan# 527
 Delta R.T. -0.09 min
 Lab File: VD060670.D
 Acq: 20 Dec 2018 20:44

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.0	77.0	115.4#
121	0.0	24.7	37.1#





#40

Benzene

Concen: 1.288 ug/l

RT: 6.79 min Scan# 566

Delta R.T. -0.01 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

Instrument :

MSVOA_D

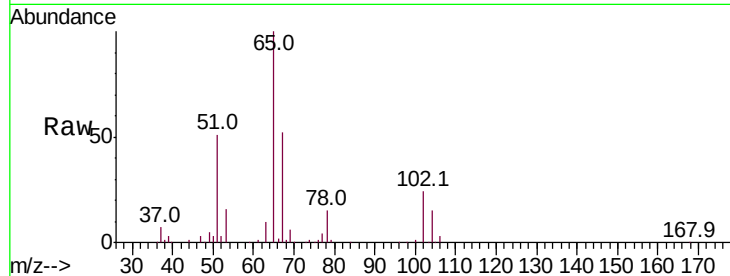
ClientSampled :

Tot Ion: 78 Resp: 68434

Ion Ratio Lower Upper

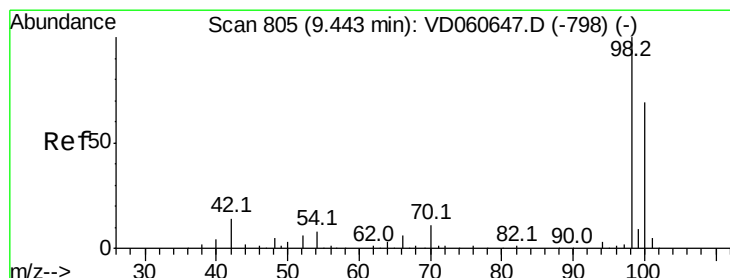
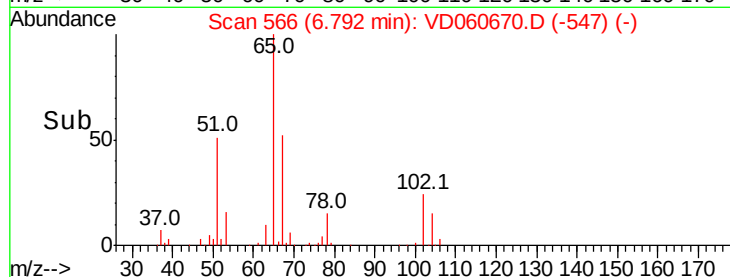
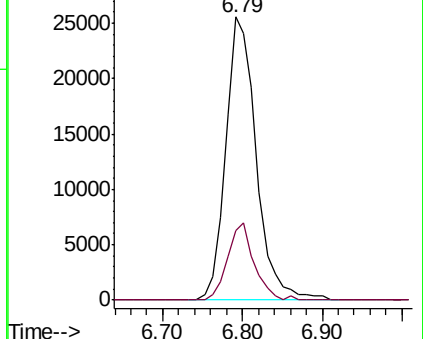
78 100

77 24.7 19.2 28.8



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.46 min Scan# 837

Delta R.T. 0.00 min

Lab File: VD060670.D

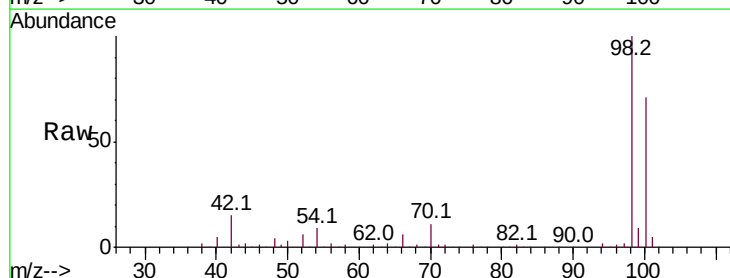
Acq: 20 Dec 2018 20:44

Tgt Ion: 98 Resp: 1511414

Ion Ratio Lower Upper

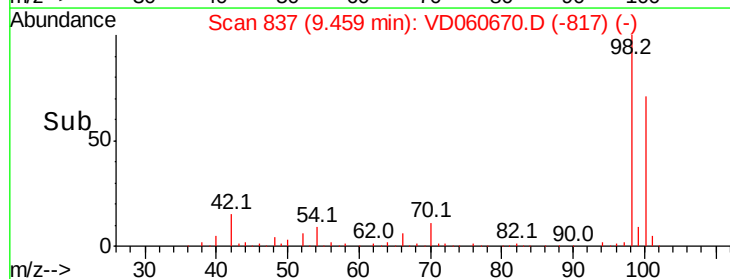
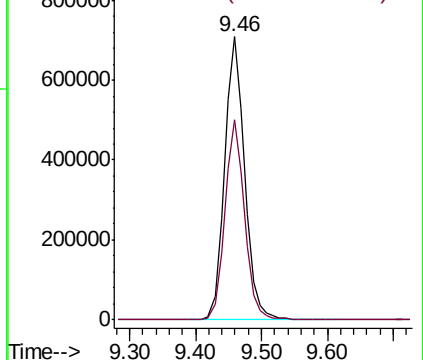
98 100

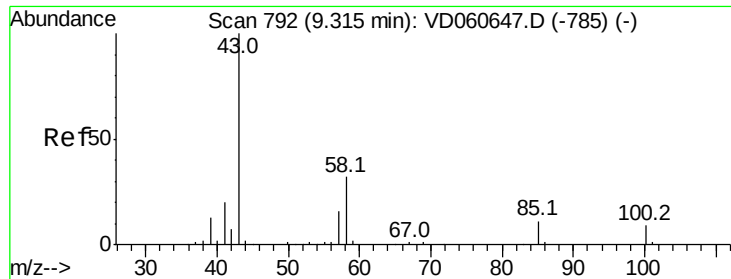
100 70.5 55.8 83.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 1.109 ug/l

RT: 9.46 min Scan# 837

Delta R.T. 0.12 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

Instrument :

MSVOA_D

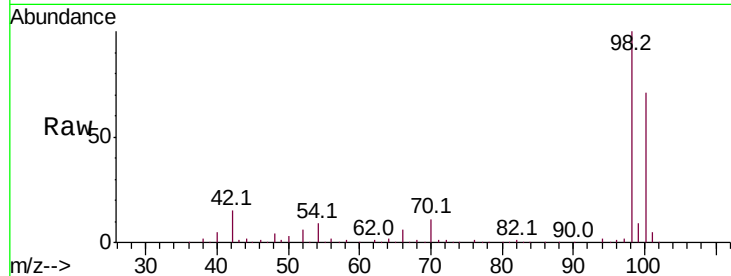
ClientSampleId :

Tot Ion: 43 Resp: 7498

Ion Ratio Lower Upper

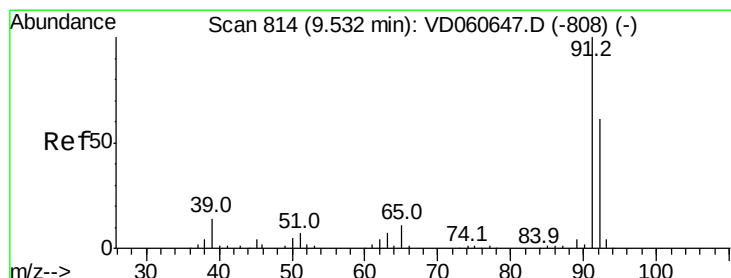
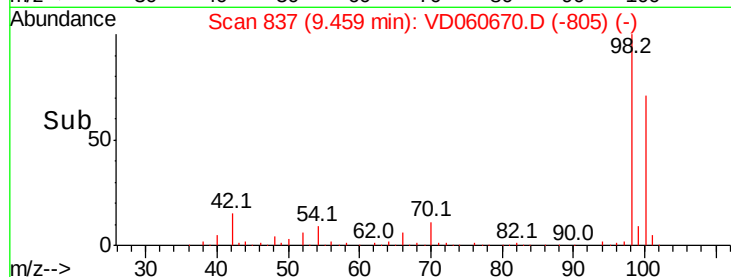
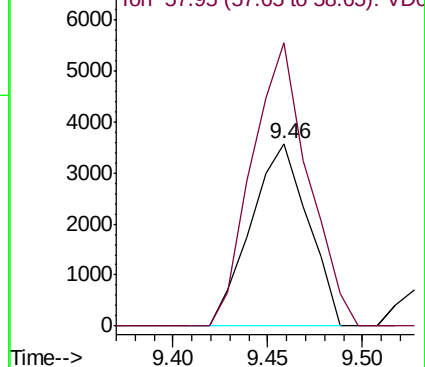
43 100

58 155.1 26.3 39.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 12.214 ug/l

RT: 9.55 min Scan# 846

Delta R.T. 0.00 min

Lab File: VD060670.D

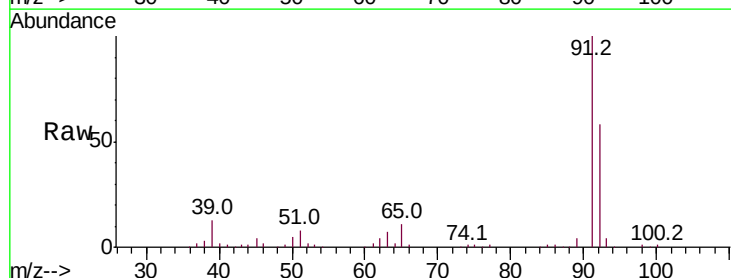
Acq: 20 Dec 2018 20:44

Tgt Ion: 92 Resp: 406759

Ion Ratio Lower Upper

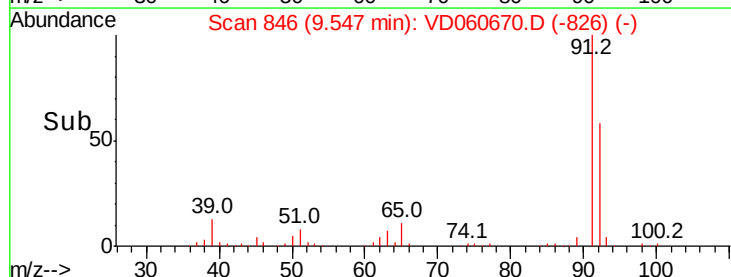
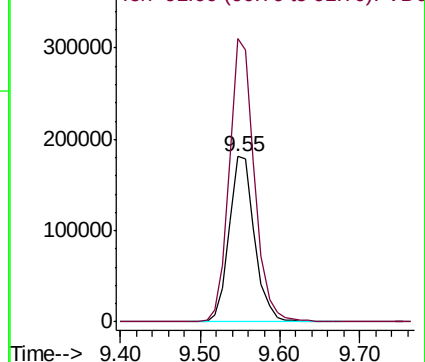
92 100

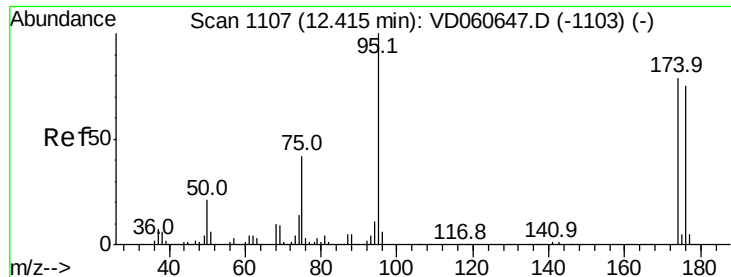
91 171.1 132.6 199.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1139

Delta R.T. 0.01 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

Instrument :

MSVOA_D

ClientSampleId :

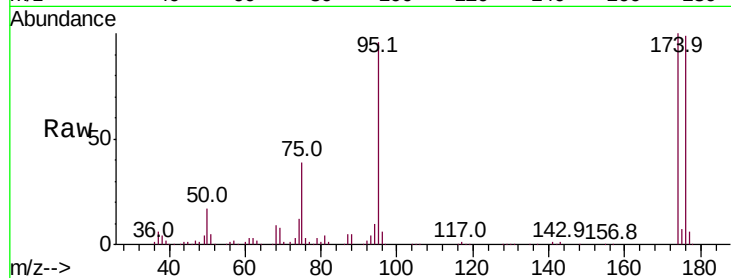
Tot Ion: 95 Resp: 435400

Ion Ratio Lower Upper

95 100

174 104.1 0.0 158.2

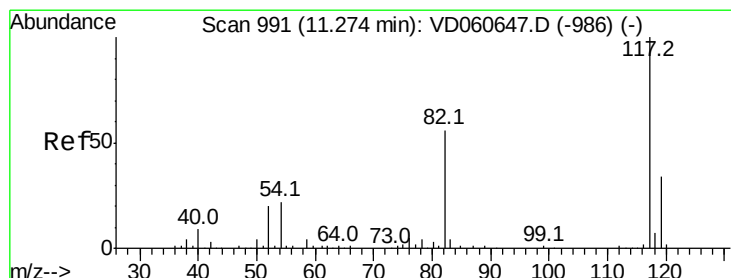
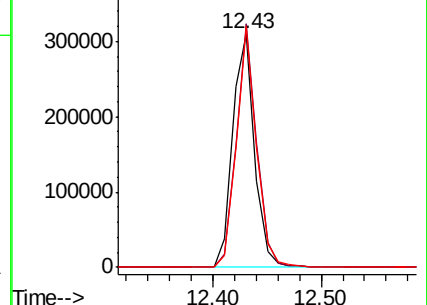
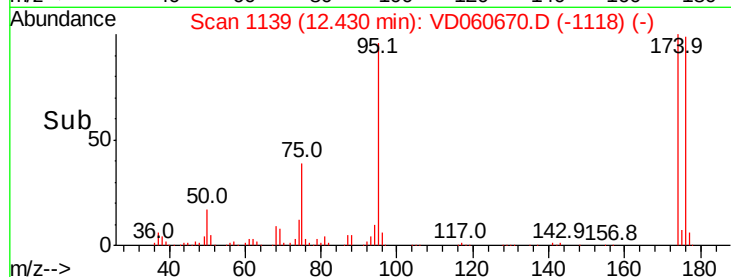
176 102.8 0.0 152.4



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: 11.29 min Scan# 1023

Delta R.T. 0.01 min

Lab File: VD060670.D

Acq: 20 Dec 2018 20:44

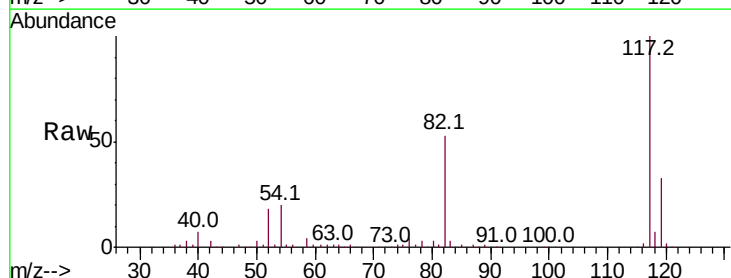
Tgt Ion: 117 Resp: 1377047

Ion Ratio Lower Upper

117 100

82 52.5 44.5 66.7

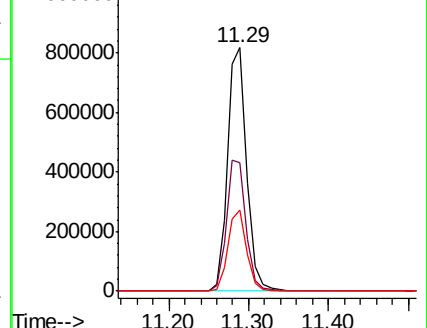
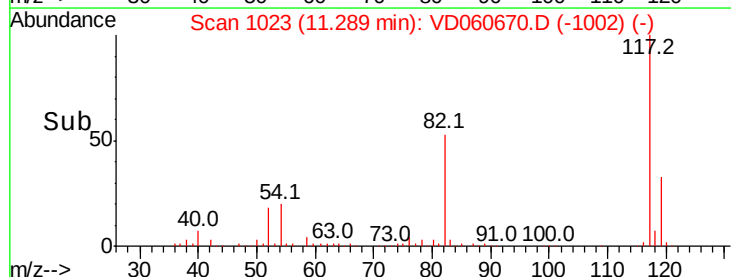
119 33.1 26.3 39.5

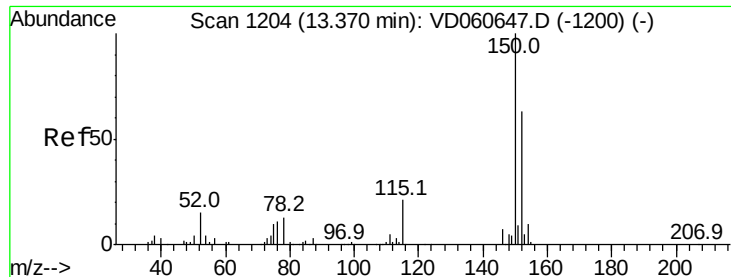


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V



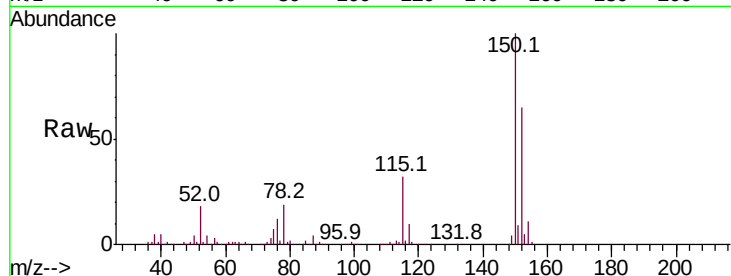


#72

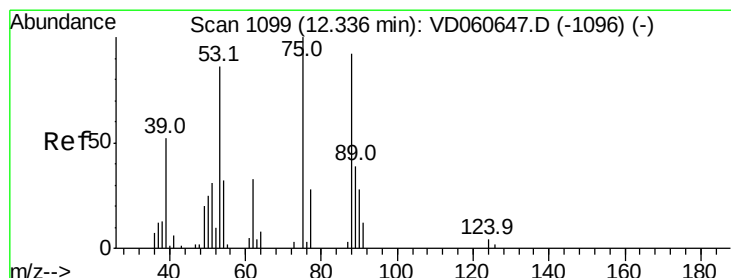
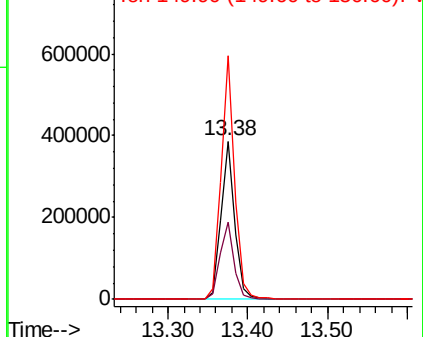
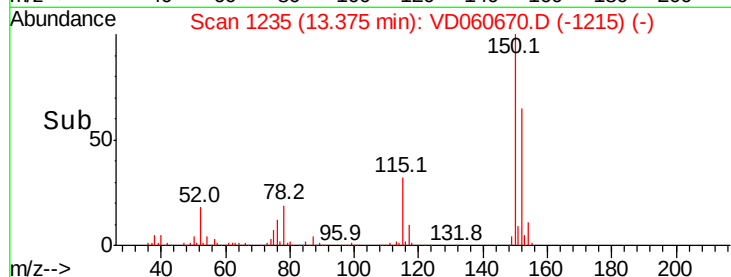
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.38 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VD060670.D
Acq: 20 Dec 2018 20:44

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:152 Resp: 467976
Ion Ratio Lower Upper
152 100
115 48.5 24.1 72.3
150 153.9 0.0 315.0



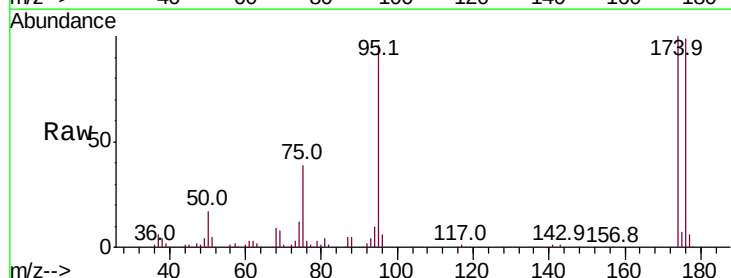
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



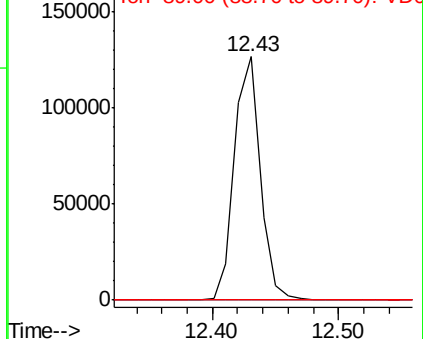
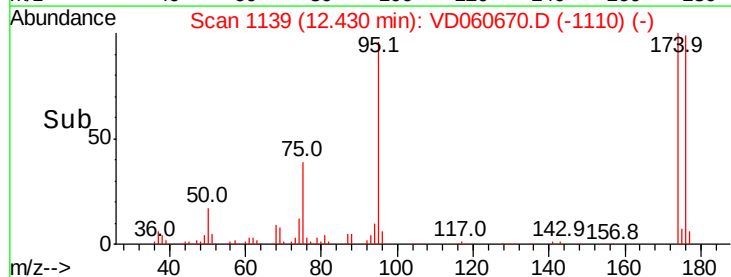
#81

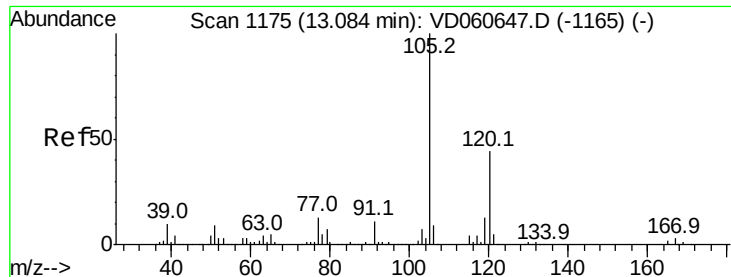
trans-1,4-Dichloro-2-butene
Concen: 121.391 ug/l
RT: 12.43 min Scan# 1139
Delta R.T. 0.09 min
Lab File: VD060670.D
Acq: 20 Dec 2018 20:44

Tgt Ion: 75 Resp: 178713
Ion Ratio Lower Upper
75 100
53 0.0 72.1 108.1#
89 0.0 35.1 52.7#



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





#84
 1,2,4-Trimethylbenzene
 Concen: 1.732 ug/l
 RT: 13.10 min Scan# 1207
 Delta R.T. 0.01 min
 Lab File: VD060670.D
 Acq: 20 Dec 2018 20:44

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:105 Resp: 45898
 Ion Ratio Lower Upper
 105 100
 120 50.6 22.4 67.0

