

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121418\
 Data File : VD060571.D
 Acq On : 14 Dec 2018 14:13
 Operator : VA/AP
 Sample : J6403-01
 Misc : 2.68g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 22:22:39 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120518S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 06 01:49:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1173805	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.42	114	1620136	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.27	117	1340151	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.36	152	632745	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.77	65	477950	57.45	ug/l	-0.02
Spiked Amount			Recovery	=	114.90%	
35) Dibromofluoromethane	6.31	113	611476	51.38	ug/l	-0.02
Spiked Amount			Recovery	=	102.76%	
50) Toluene-d8	9.44	98	1681055	48.82	ug/l	-0.02
Spiked Amount			Recovery	=	97.64%	
62) 4-Bromofluorobenzene	12.42	95	574458	46.62	ug/l	-0.01
Spiked Amount			Recovery	=	93.24%	

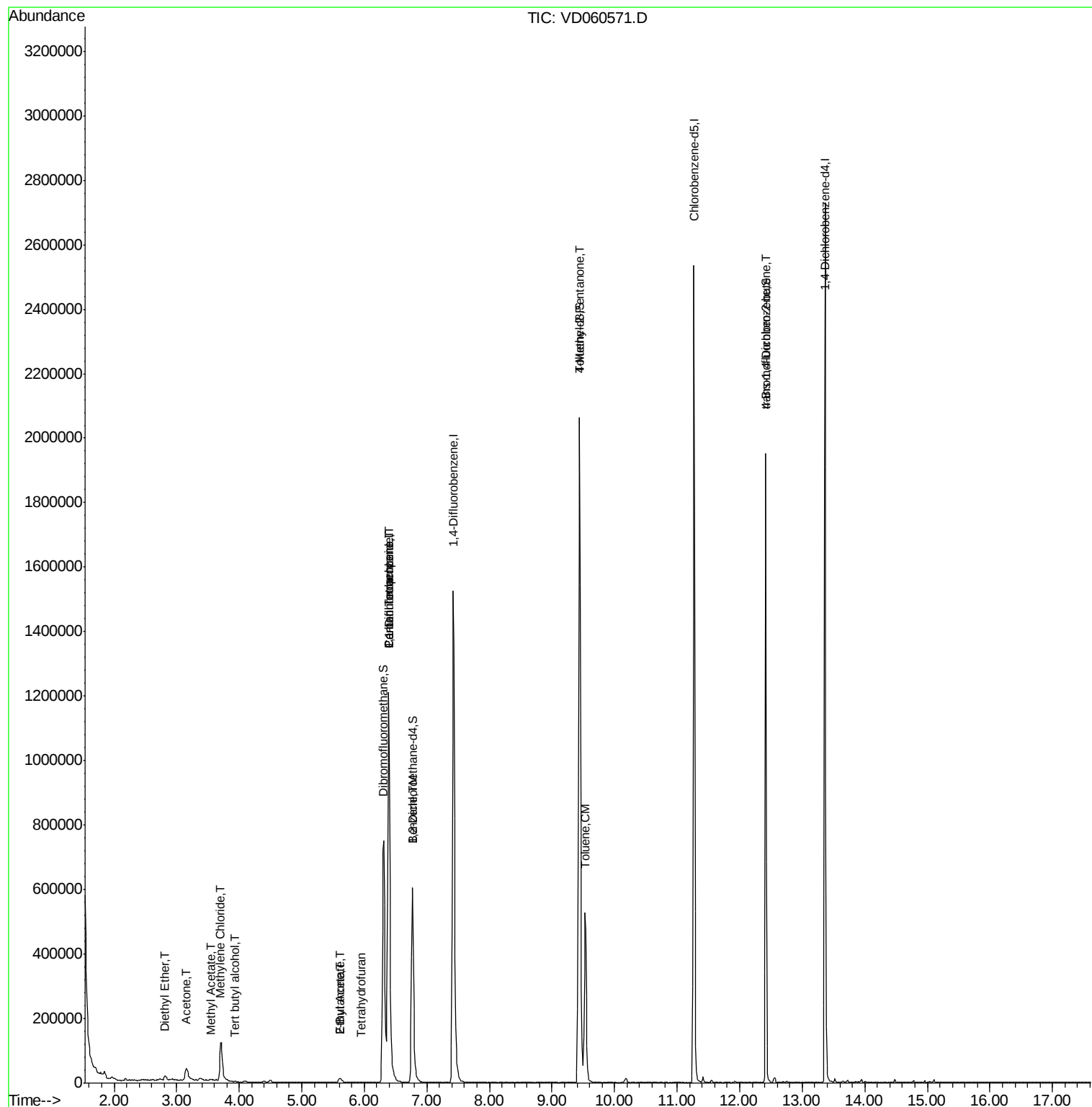
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	2.82	74	5026	2.618	ug/l	100
11) Tert butyl alcohol	3.95	59	671	1.985	ug/l #	73
16) Acetone	3.15	43	91771	68.814	ug/l	96
18) Methyl Acetate	3.55	43	14611	4.610	ug/l	96
20) Methylene Chloride	3.70	84	84903	2.703	ug/l	90
25) 2-Butanone	5.60	43	27800	10.596	ug/l #	89
29) Tetrahydrofuran	5.94	42	2368	1.594	ug/l #	40
31) Cyclohexane	6.39	56	22981	Below Cal	#	1
36) 1,1-Dichloropropene	6.39	75	82473	5.208	ug/l #	46
37) Ethyl Acetate	5.60	43	27800	4.048	ug/l #	68
38) Carbon Tetrachloride	6.39	117	87569	6.159	ug/l #	16
40) Benzene	6.77	78	66260	1.637	ug/l	97
51) 4-Methyl-2-Pentanone	9.43	43	8696	1.649	ug/l #	1
52) Toluene	9.53	92	279658	11.055	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.41	75	223630	111.839	ug/l #	14
89) n-Butylbenzene	13.64	91	1860	Below Cal	#	64

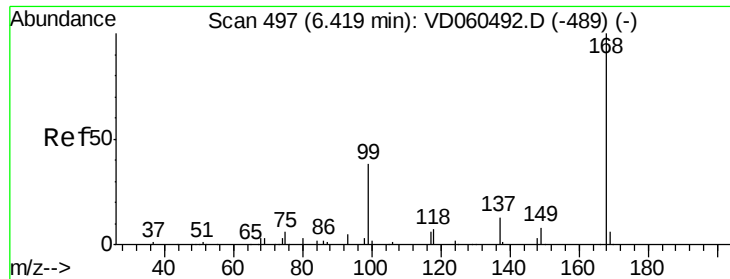
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD121418\
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QLast Update : Thu Dec 06 01:49:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 494

Delta R.T. -0.03 min

Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

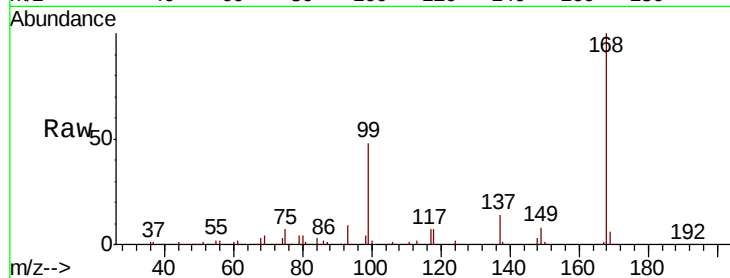
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 1173805

Ion Ratio Lower Upper

168 100

99 47.7 35.6 53.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

500000

400000

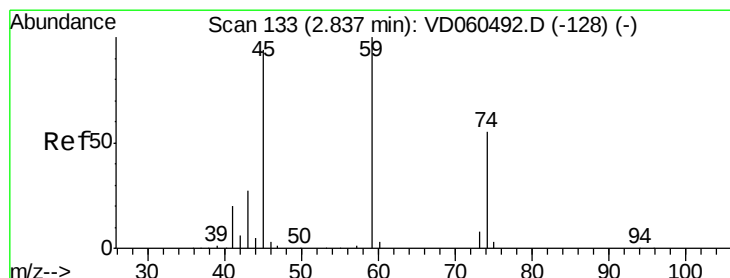
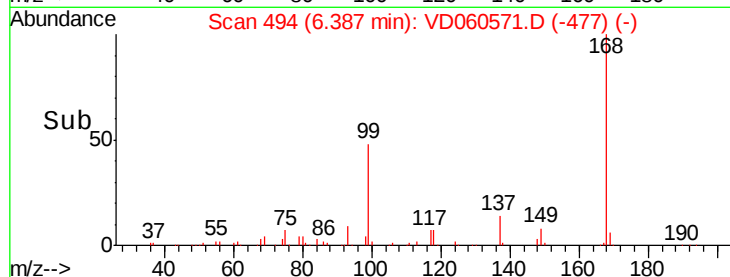
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 2.618 ug/l

RT: 2.82 min Scan# 132

Delta R.T. -0.01 min

Lab File: VD060571.D

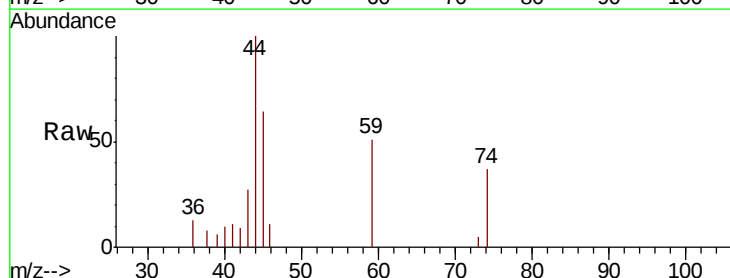
Acq: 14 Dec 2018 14:13

Tgt Ion: 74 Resp: 5026

Ion Ratio Lower Upper

74 100

45 171.4 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

5000

4000

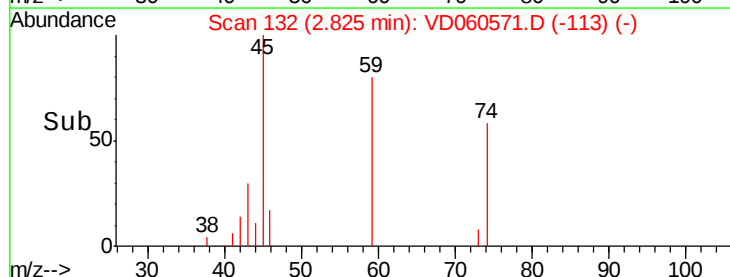
3000

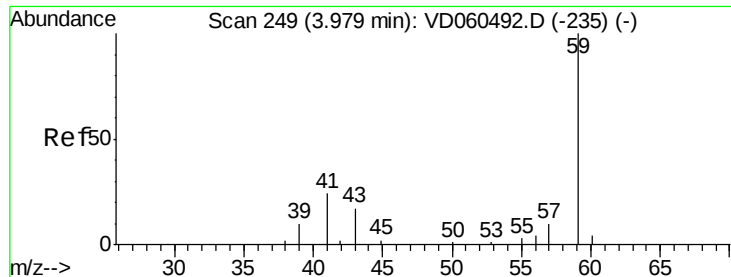
2000

1000

0

Time-->

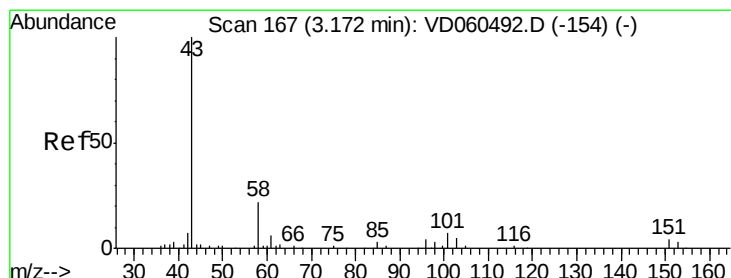
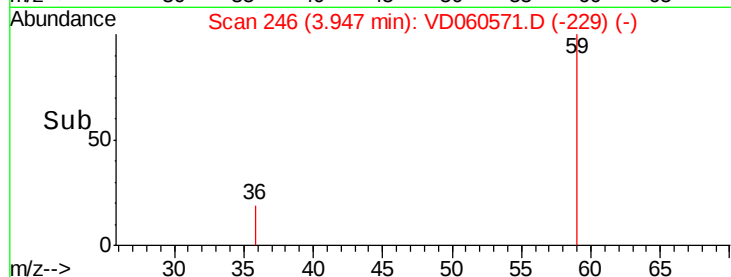
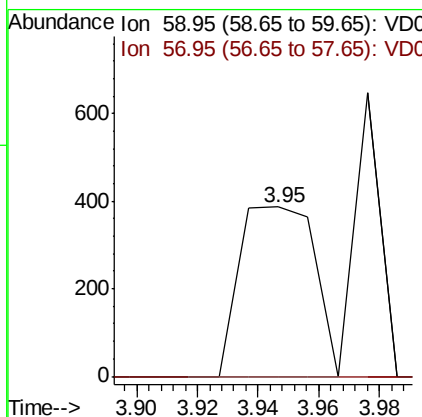
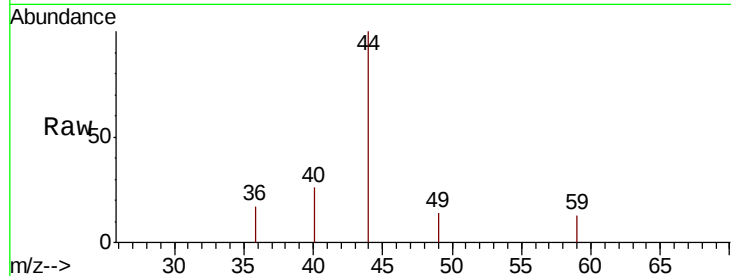




#11
Tert butyl alcohol
Concen: 1.985 ug/l
RT: 3.95 min Scan# 246
Delta R.T. -0.03 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

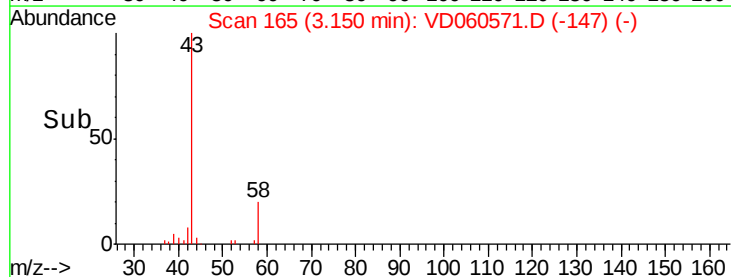
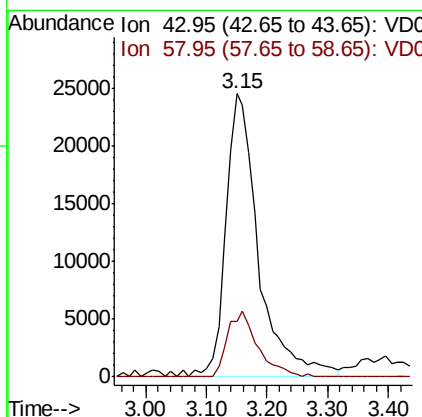
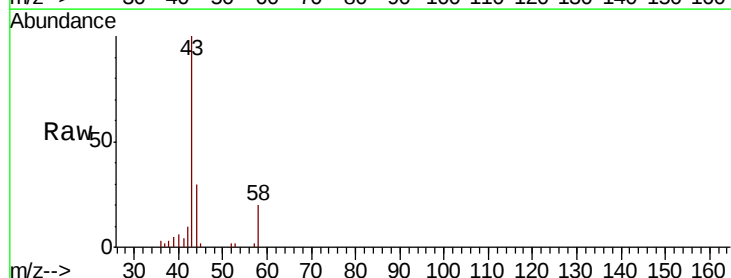
Instrument :
MSVOA_D
ClientSampled :

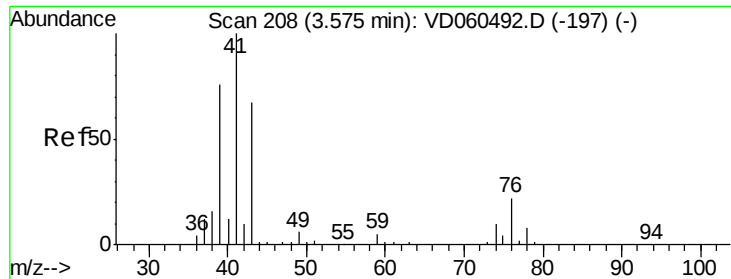
Tot Ion: 59 Resp: 671
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 68.814 ug/l
RT: 3.15 min Scan# 165
Delta R.T. -0.02 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

Tgt Ion: 43 Resp: 91771
Ion Ratio Lower Upper
43 100
58 19.8 17.3 25.9

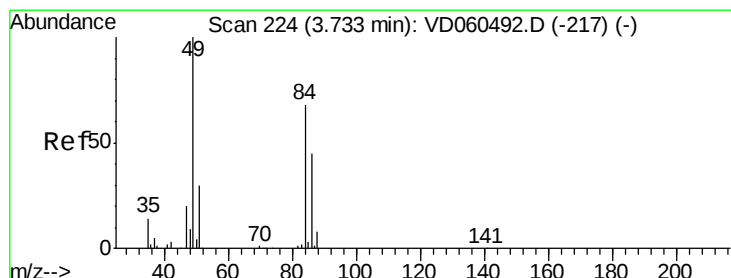
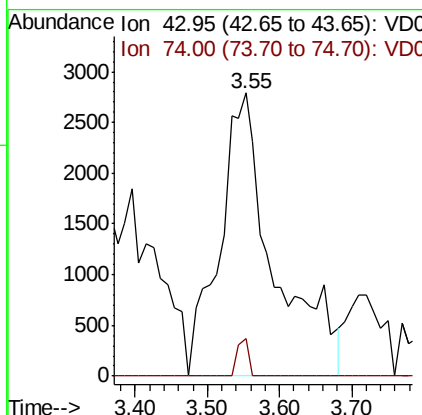
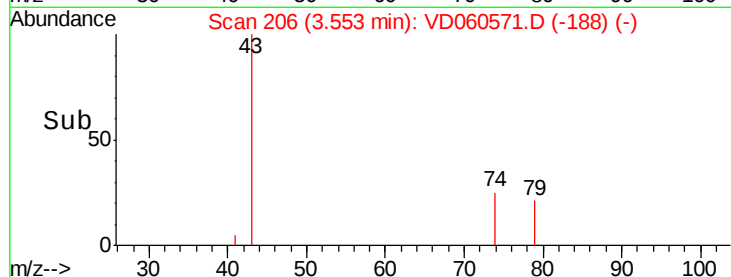
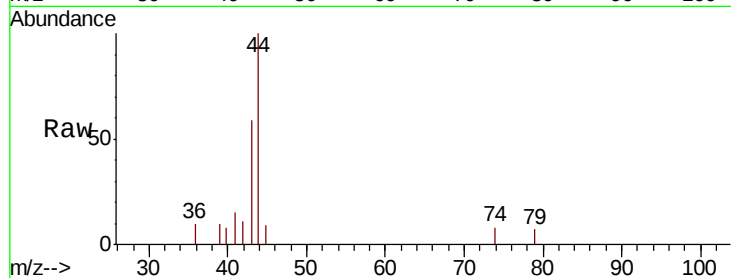




#18
Methyl Acetate
Concen: 4.610 ug/l
RT: 3.55 min Scan# 206
Delta R.T. -0.02 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

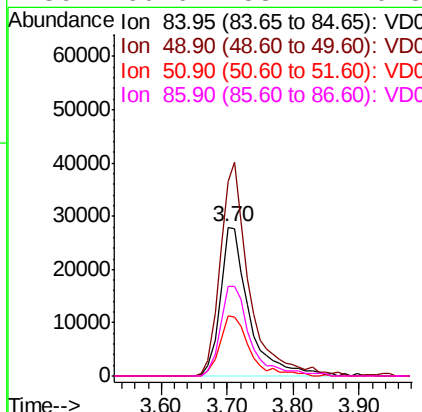
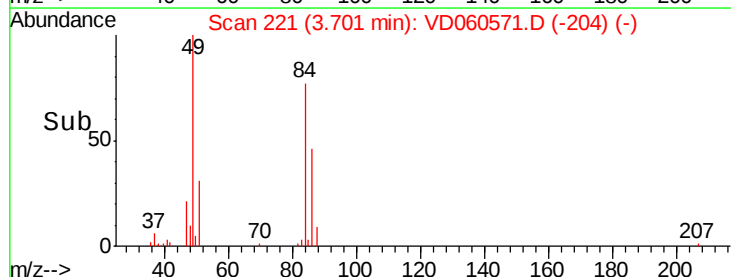
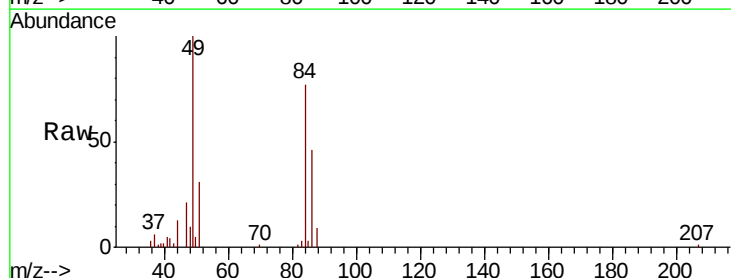
Instrument :
MSVOA_D
ClientSampled :

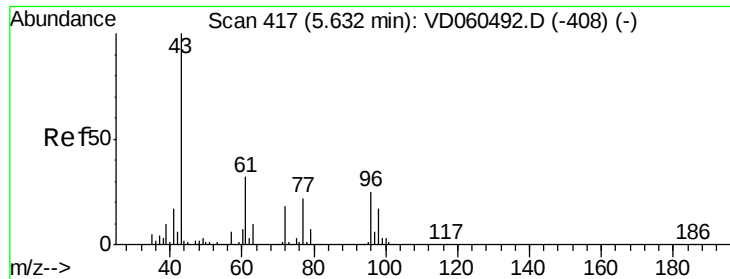
Tot Ion: 43 Resp: 14611
Ion Ratio Lower Upper
43 100
74 13.2 12.0 18.0



#20
Methylene Chloride
Concen: 2.703 ug/l
RT: 3.70 min Scan# 221
Delta R.T. -0.03 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

Tgt Ion: 84 Resp: 84903
Ion Ratio Lower Upper
84 100
49 130.7 117.2 175.8
51 40.7 35.3 52.9
86 60.6 53.2 79.8





#25

2-Butanone

Concen: 10.596 ug/l

RT: 5.60 min Scan# 414

Delta R.T. -0.03 min

Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

Instrument :

MSVOA_D

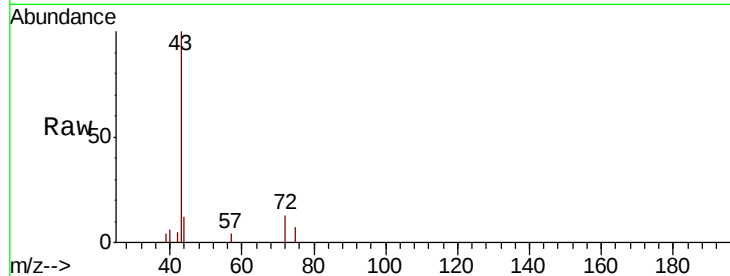
ClientSampleId :

Tot Ion: 43 Resp: 27800

Ion Ratio Lower Upper

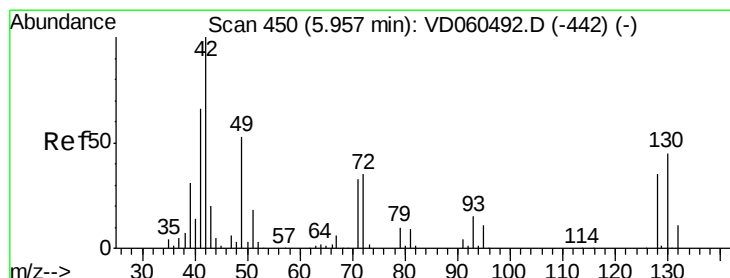
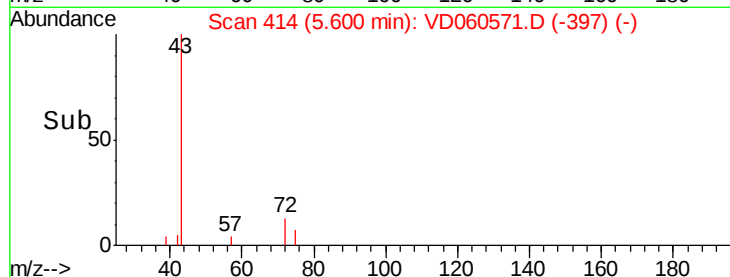
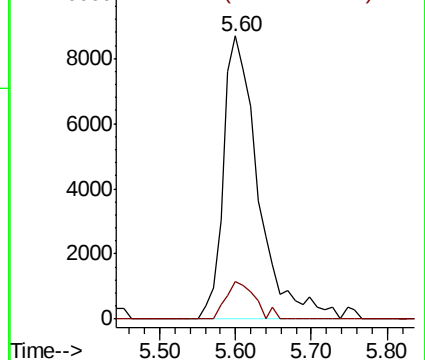
43 100

72 13.3 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 1.594 ug/l

RT: 5.94 min Scan# 449

Delta R.T. -0.01 min

Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

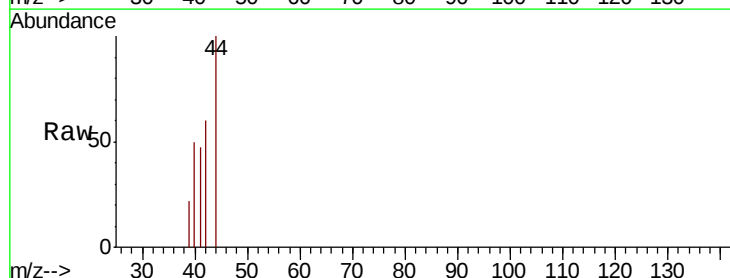
Tgt Ion: 42 Resp: 2368

Ion Ratio Lower Upper

42 100

72 0.0 28.0 42.0#

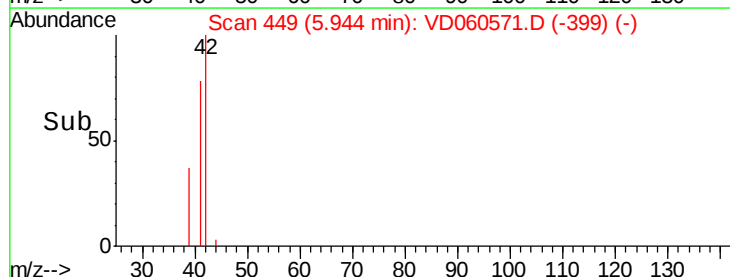
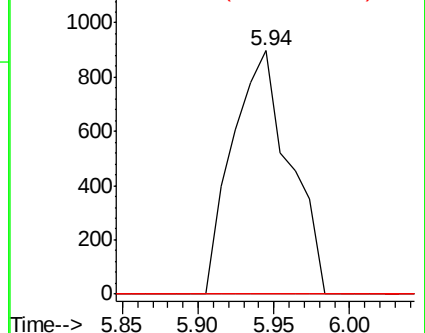
71 0.0 27.2 40.8#

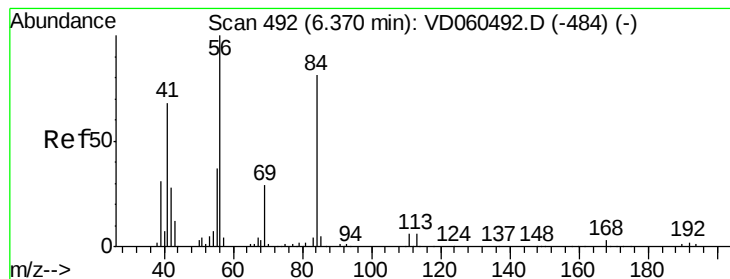


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: Below Cal

RT: 6.39 min Scan# 494

Delta R.T. 0.02 min

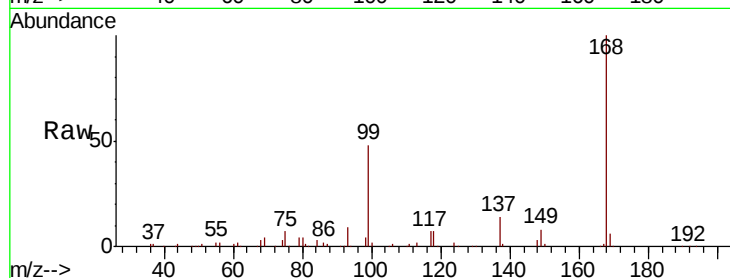
Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

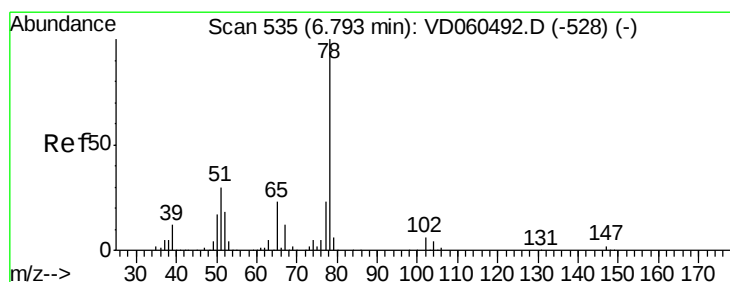
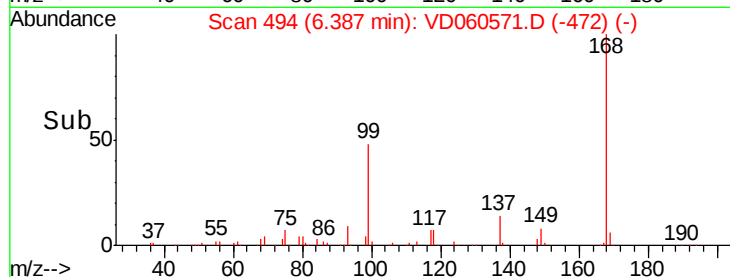
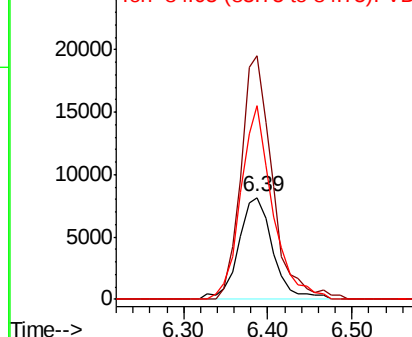
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 22981

Ion	Ratio	Lower	Upper
56	100		
69	239.2	22.8	34.2#
84	190.0	65.1	97.7#



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: 6.77 min Scan# 533

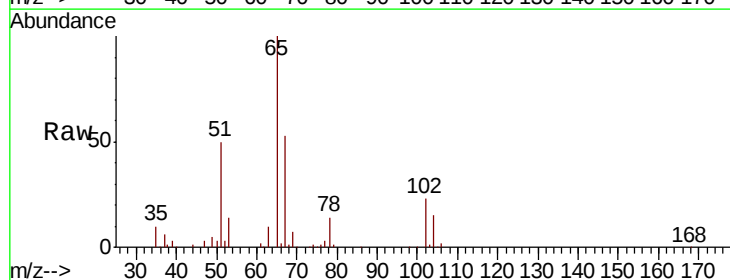
Delta R.T. -0.02 min

Lab File: VD060571.D

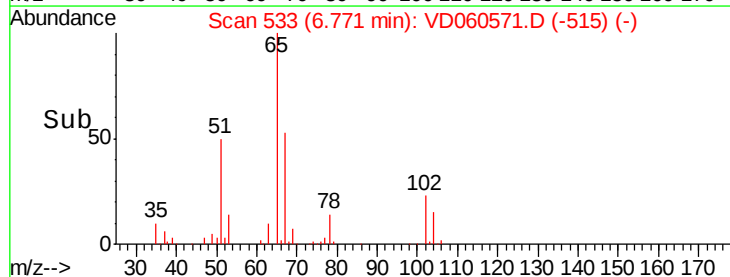
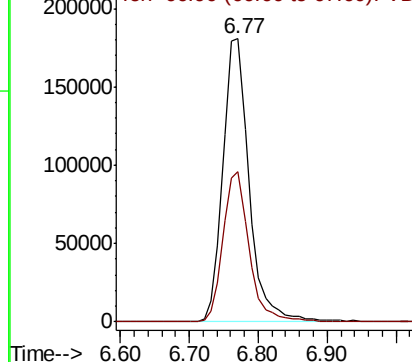
Acq: 14 Dec 2018 14:13

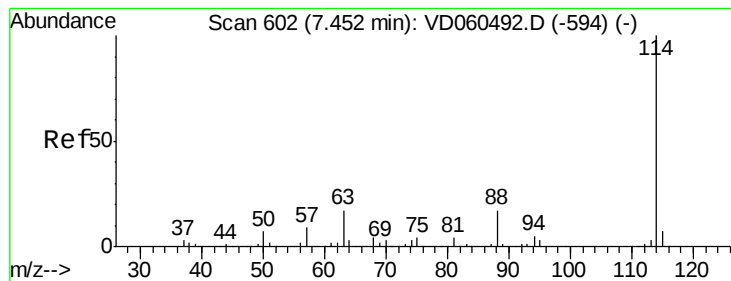
Tgt Ion: 65 Resp: 477950

Ion	Ratio	Lower	Upper
65	100		
67	53.0	0.0	106.8



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. -0.03 min

Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

Instrument :

MSVOA_D

ClientSampleId :

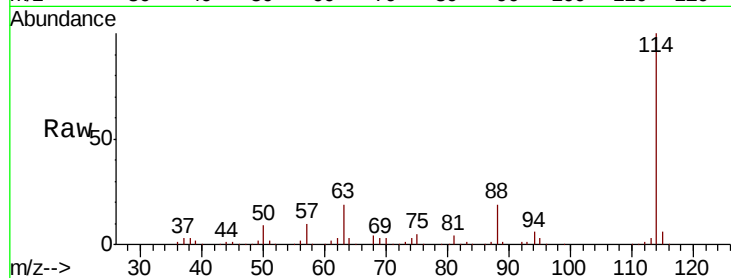
Tot Ion:114 Resp: 1620136

Ion Ratio Lower Upper

114 100

63 19.0 0.0 34.2

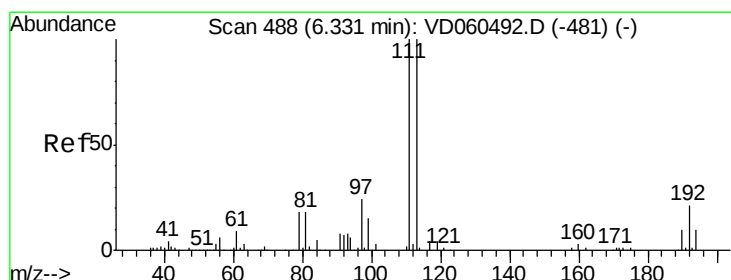
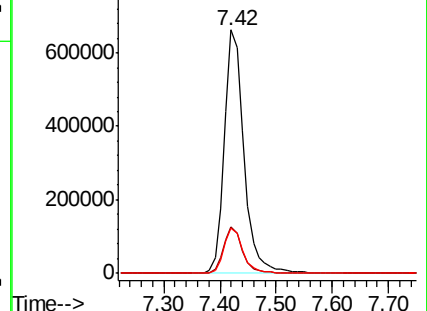
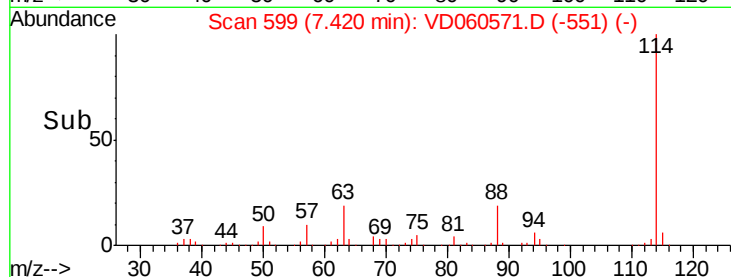
88 18.7 0.0 35.0



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: 6.31 min Scan# 486

Delta R.T. -0.02 min

Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

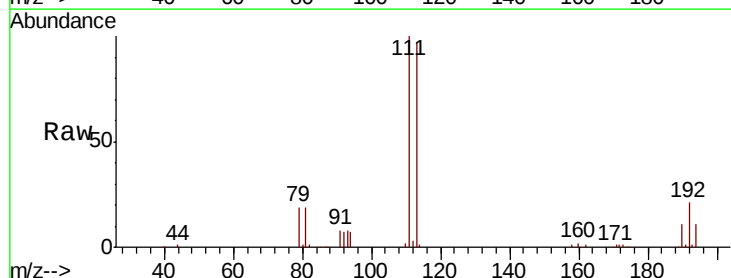
Tgt Ion:113 Resp: 611476

Ion Ratio Lower Upper

113 100

111 103.2 80.2 120.4

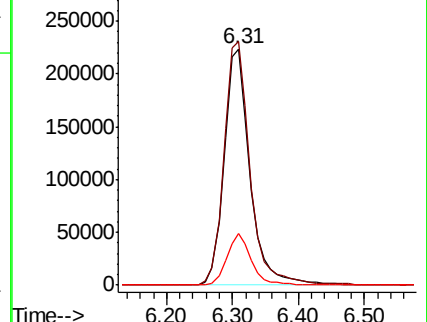
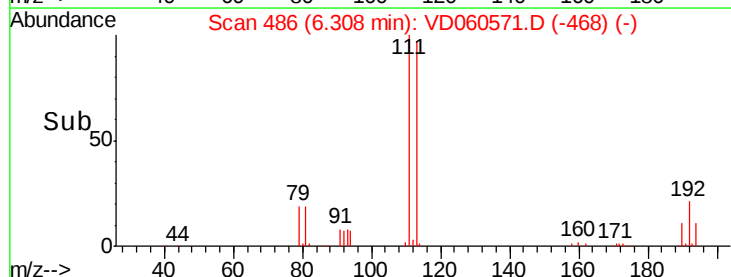
192 21.7 16.6 24.8

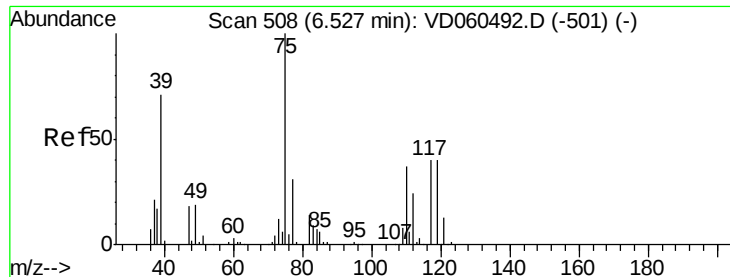


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

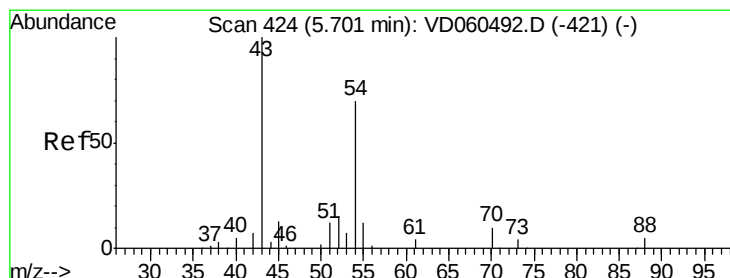
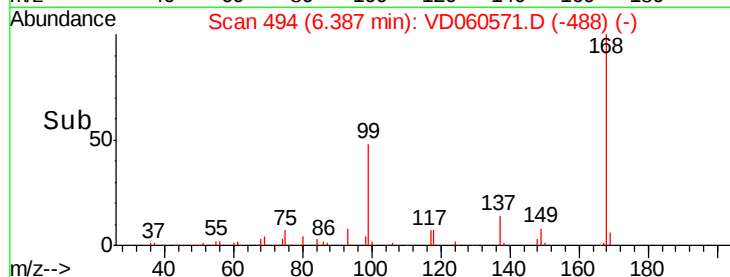
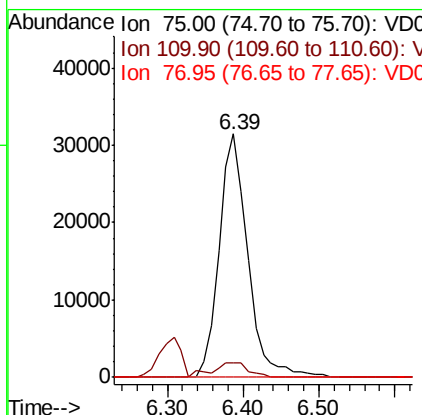
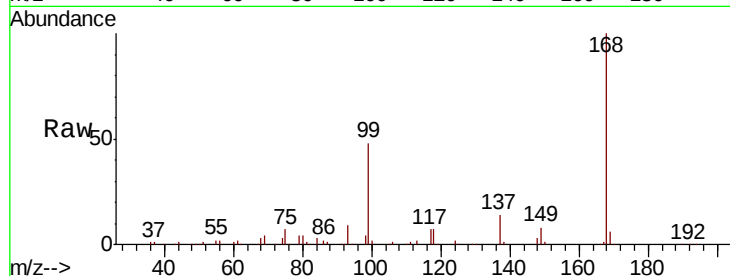




#36
 1,1-Dichloropropene
 Concen: 5.208 ug/l
 RT: 6.39 min Scan# 494
 Delta R.T. -0.14 min
 Lab File: VD060571.D
 Acq: 14 Dec 2018 14:13

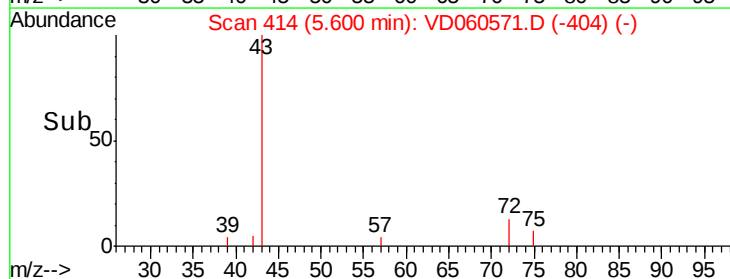
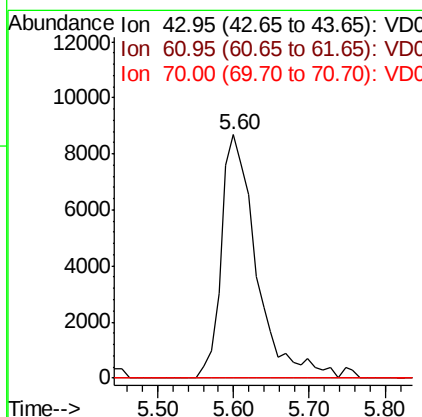
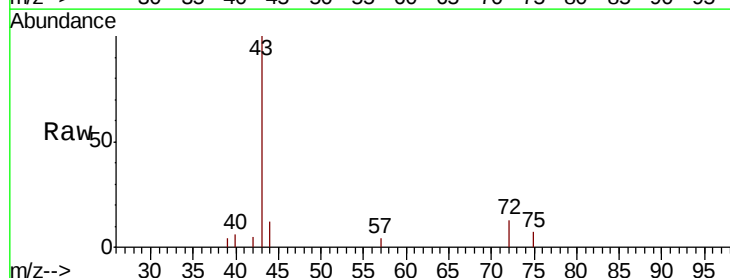
Instrument :
 MSVOA_D
 ClientSampleId :

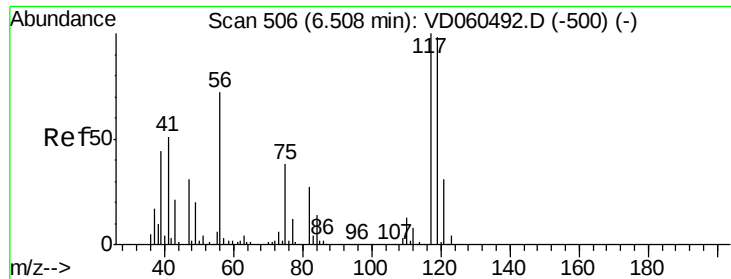
Tot Ion	75	Resp	82473
Ion Ratio	Lower	Upper	
75	100		
110	5.9	18.3	54.8#
77	0.0	24.6	37.0#



#37
 Ethyl Acetate
 Concen: 4.048 ug/l
 RT: 5.60 min Scan# 414
 Delta R.T. -0.10 min
 Lab File: VD060571.D
 Acq: 14 Dec 2018 14:13

Tgt Ion	43	Resp	27800
Ion Ratio	Lower	Upper	
43	100		
61	0.0	12.4	18.6#
70	0.0	5.4	8.0#

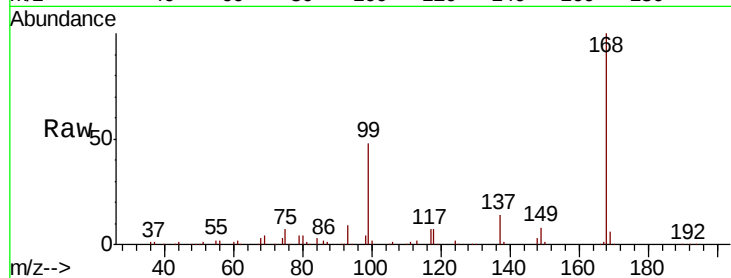




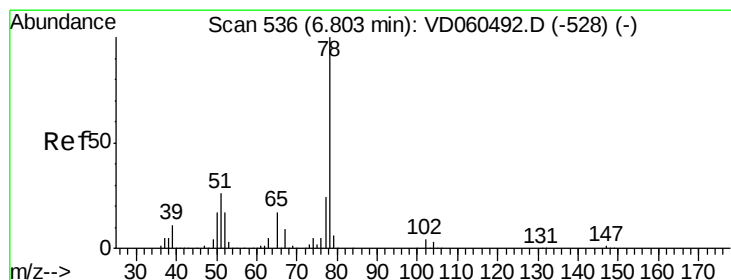
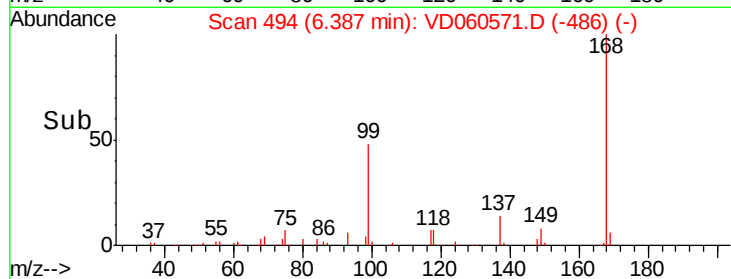
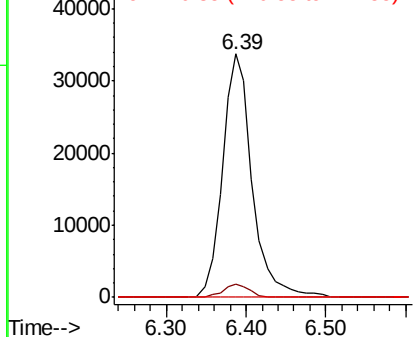
#38
Carbon Tetrachloride
Concen: 6.159 ug/l
RT: 6.39 min Scan# 494
Delta R.T. -0.12 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 87569
Ion Ratio Lower Upper
117 100
119 5.6 76.8 115.2#
121 0.0 24.4 36.6#

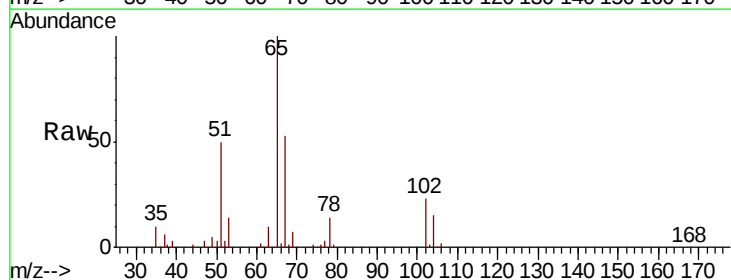


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

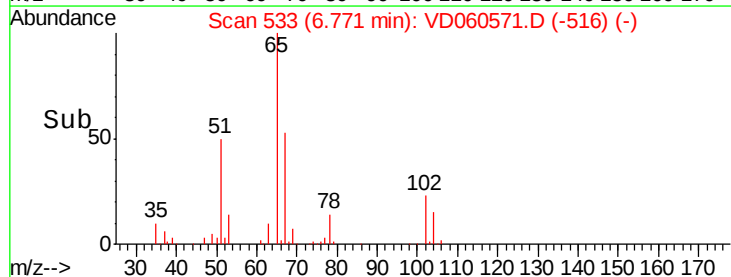
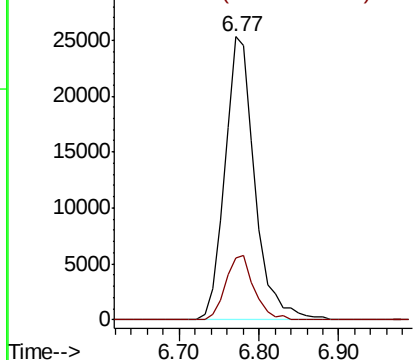


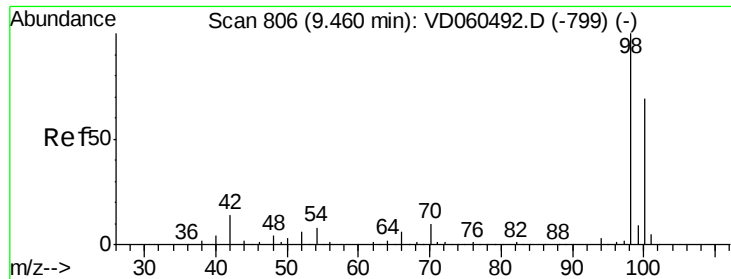
#40
Benzene
Concen: 1.637 ug/l
RT: 6.77 min Scan# 533
Delta R.T. -0.03 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

Tgt Ion: 78 Resp: 66260
Ion Ratio Lower Upper
78 100
77 22.0 18.9 28.3



Abundance Ion 77.95 (77.65 to 78.65): VDC
Ion 76.95 (76.65 to 77.65): VDC

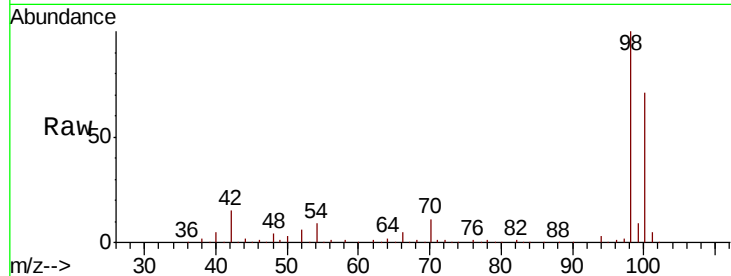




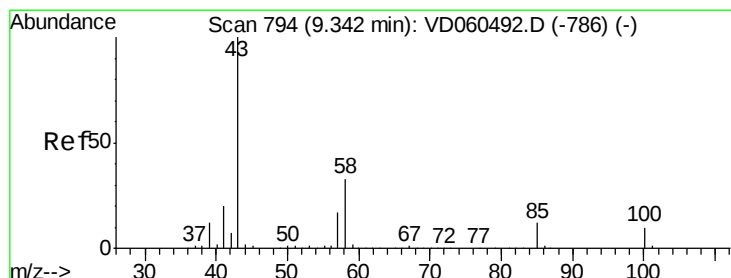
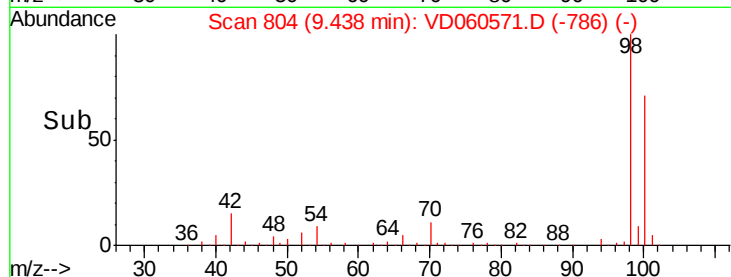
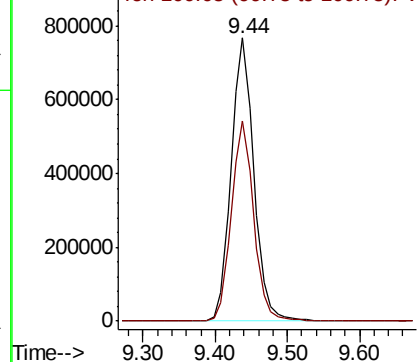
#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.44 min Scan# 804
Delta R.T. -0.02 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 98 Resp: 1681055
Ion Ratio Lower Upper
98 100
100 70.8 55.7 83.5

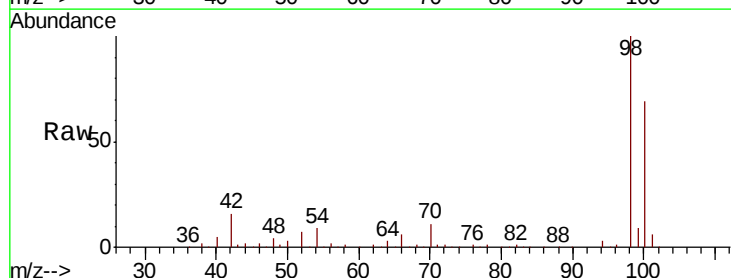


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

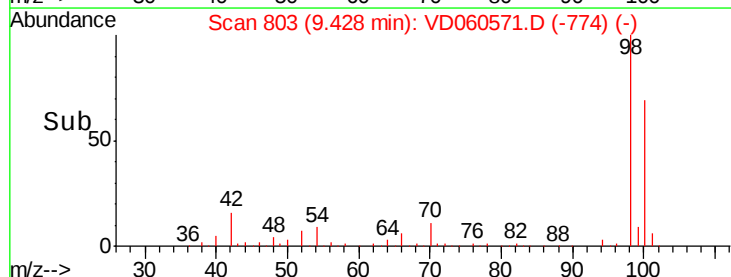
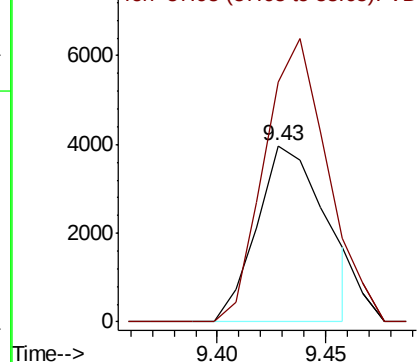


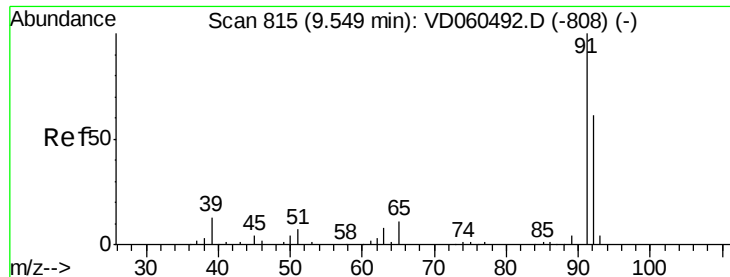
#51
4-Methyl-2-Pentanone
Concen: 1.649 ug/l
RT: 9.43 min Scan# 803
Delta R.T. 0.09 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

Tgt Ion: 43 Resp: 8696
Ion Ratio Lower Upper
43 100
58 135.8 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: 11.055 ug/l

RT: 9.53 min Scan# 813

Delta R.T. -0.02 min

Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

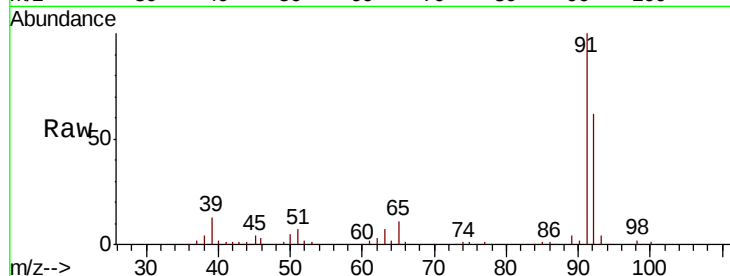
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 92 Resp: 279658

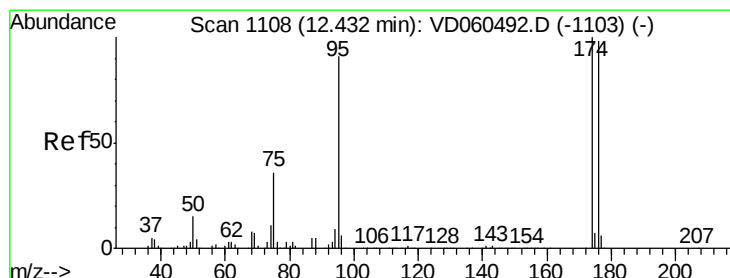
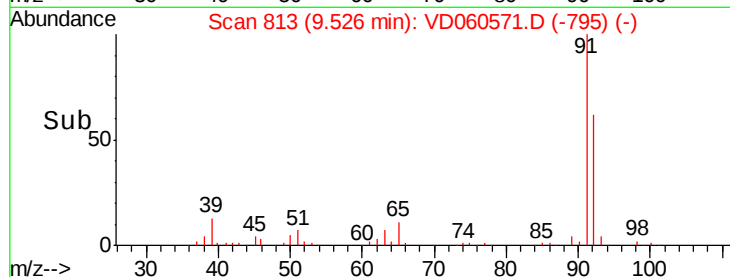
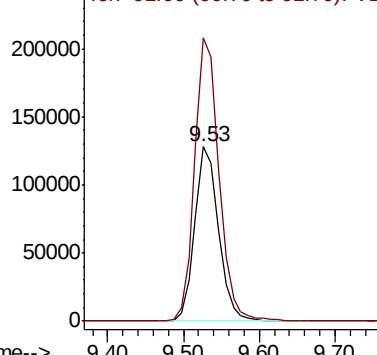
Ion Ratio Lower Upper

92 100

91 162.4 131.7 197.5



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: 12.42 min Scan# 1107

Delta R.T. -0.01 min

Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

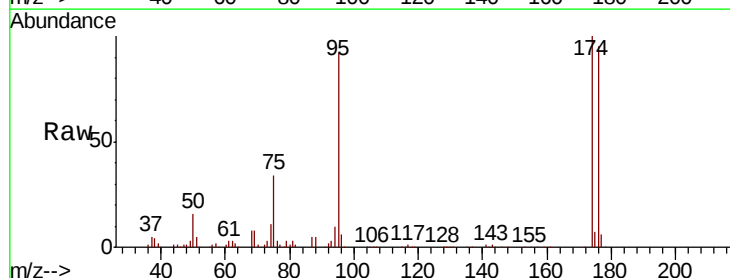
Tgt Ion: 95 Resp: 574458

Ion Ratio Lower Upper

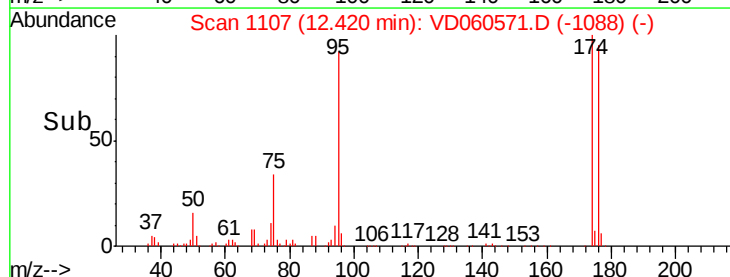
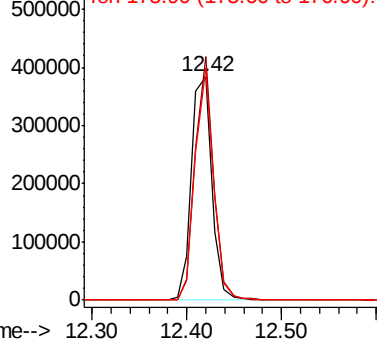
95 100

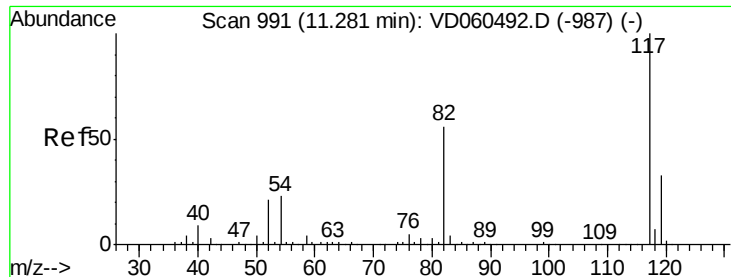
174 108.9 0.0 219.4

176 104.0 0.0 214.6



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

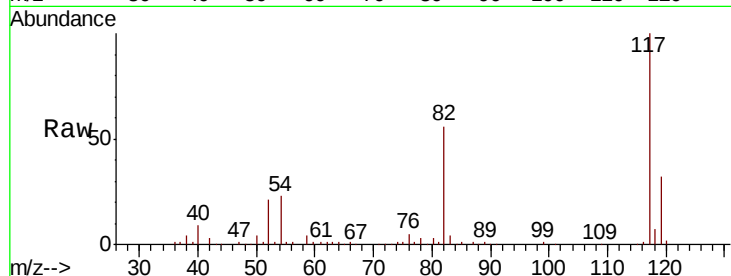




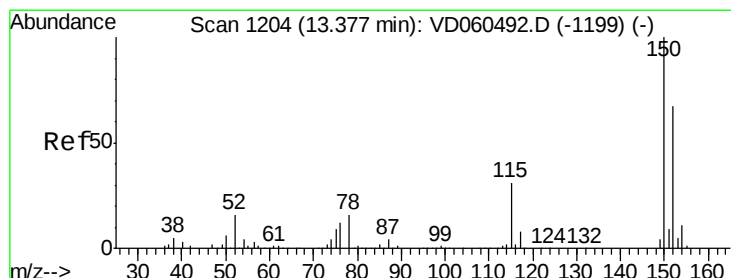
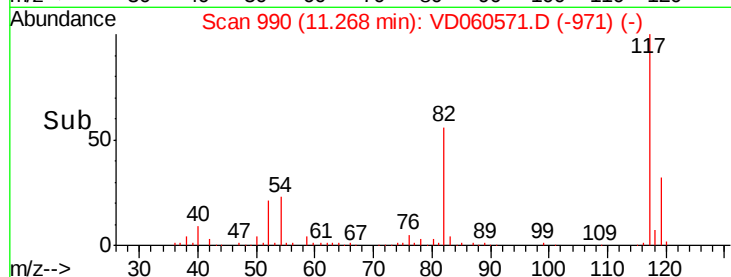
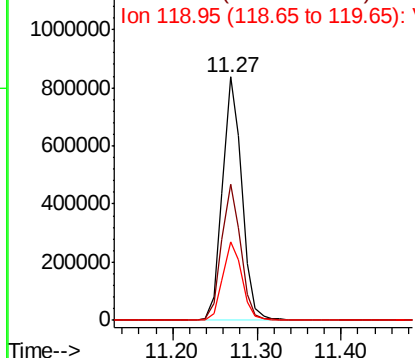
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 990
Delta R.T. -0.01 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:117 Resp: 1340151
Ion Ratio Lower Upper
117 100
82 56.1 45.2 67.8
119 32.5 26.1 39.1

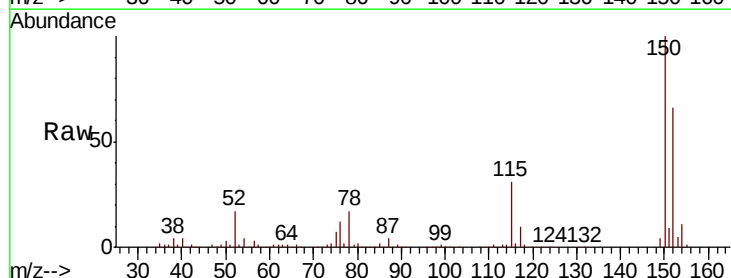


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

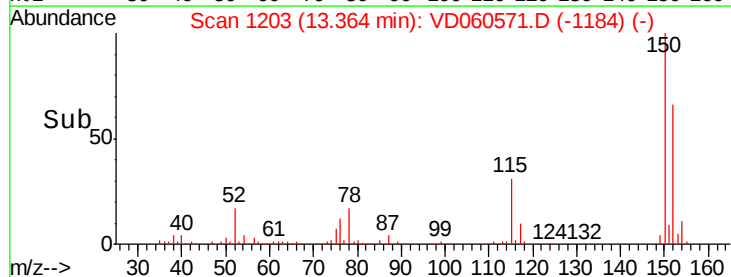
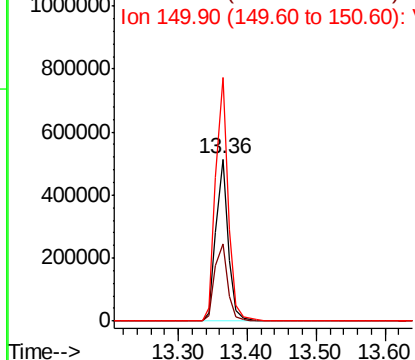


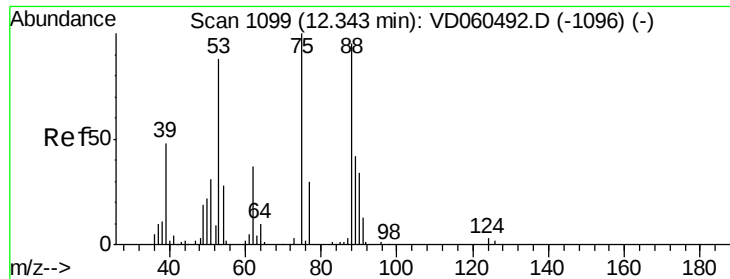
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1203
Delta R.T. -0.01 min
Lab File: VD060571.D
Acq: 14 Dec 2018 14:13

Tgt Ion:152 Resp: 632745
Ion Ratio Lower Upper
152 100
115 47.4 24.6 74.0
150 150.5 0.0 309.0



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: 111.839 ug/l

RT: 12.41 min Scan# 1106

Delta R.T. 0.07 min

Lab File: VD060571.D

Acq: 14 Dec 2018 14:13

Instrument :

MSVOA_D

ClientSampleId :

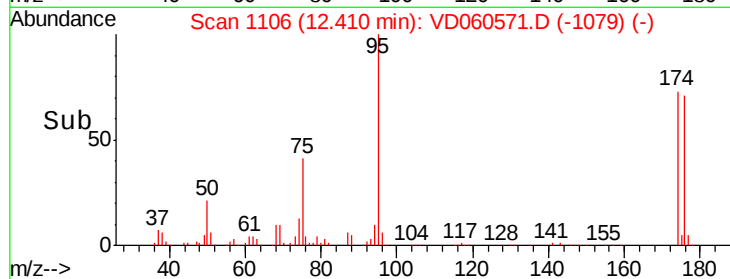
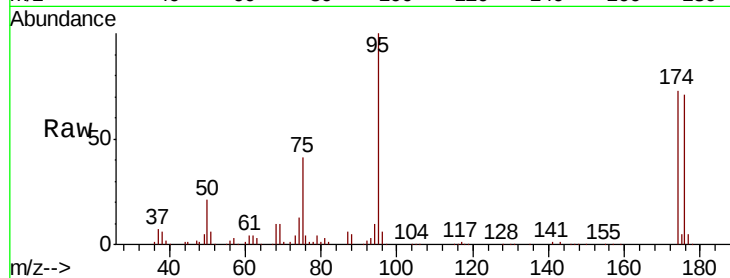
Tot Ion: 75 Resp: 223630

Ion Ratio Lower Upper

75 100

53 0.0 70.5 105.7#

89 0.0 33.6 50.4#



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

