

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121418\
 Data File : VD060578.D
 Acq On : 14 Dec 2018 17:30
 Operator : VA/AP
 Sample : J6403-29
 Misc : 5.25g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 14 22:24:23 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

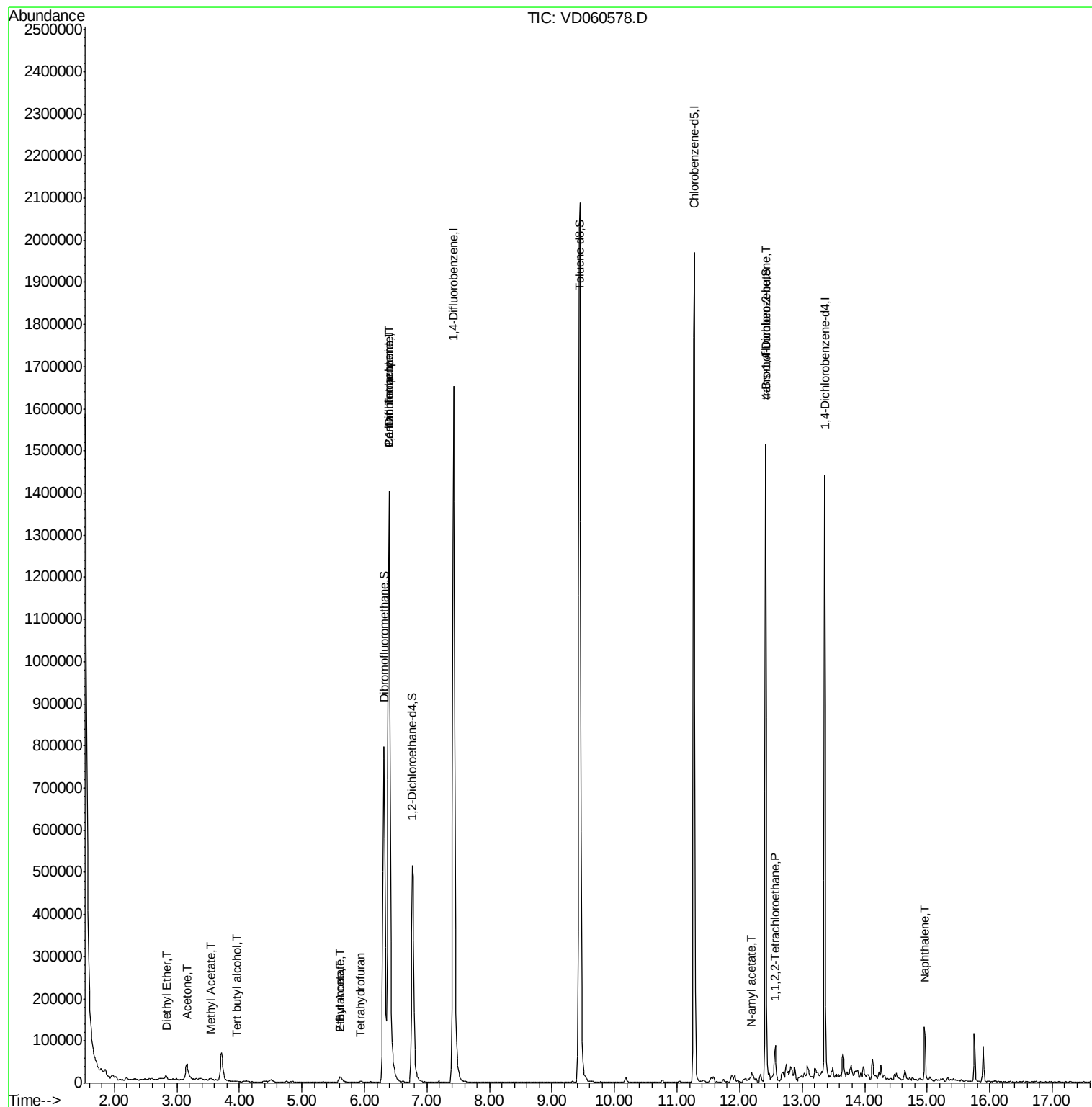
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	1401000	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	7.43	114	1770654	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.27	117	1117485	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.36	152	313350	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.77	65	450166	45.33	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	90.66%	
35) Dibromofluoromethane	6.31	113	652671	50.18	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	100.36%	
50) Toluene-d8	9.44	98	1758731	46.73	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	93.46%	
62) 4-Bromofluorobenzene	12.41	95	401962	29.85	ug/l	-0.02
Spiked Amount 50.000			Recovery	=	59.70%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.60	85	827	Below Cal	#	41
8) Diethyl Ether	2.82	74	2671	1.166	ug/l	54
11) Tert butyl alcohol	3.95	59	586	1.453	ug/l #	73
16) Acetone	3.15	43	87959	55.260	ug/l	97
18) Methyl Acetate	3.54	43	8532	2.255	ug/l #	64
20) Methylene Chloride	3.72	84	43320	Below Cal		96
25) 2-Butanone	5.61	43	25613	8.179	ug/l #	91
29) Tetrahydrofuran	5.94	42	2901	1.636	ug/l #	57
31) Cyclohexane	6.39	56	27435	Below Cal	#	1
36) 1,1-Dichloropropene	6.39	75	97878	5.655	ug/l #	46
37) Ethyl Acetate	5.61	43	25613	3.412	ug/l #	68
38) Carbon Tetrachloride	6.39	117	107341	6.908	ug/l #	16
74) N-amyl acetate	12.19	43	11560	2.157	ug/l #	56
75) 1,1,2,2-Tetrachloroethane	12.57	83	4897	1.379	ug/l #	24
81) trans-1,4-Dichloro-2-buten	12.41	75	161650	163.244	ug/l #	14
89) n-Butylbenzene	13.64	91	2072	Below Cal	#	68
95) Naphthalene	14.95	128	84937	10.590	ug/l	98

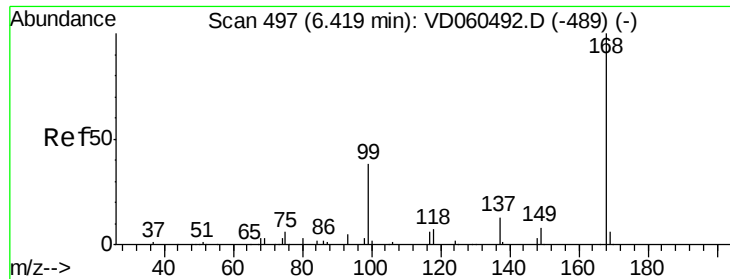
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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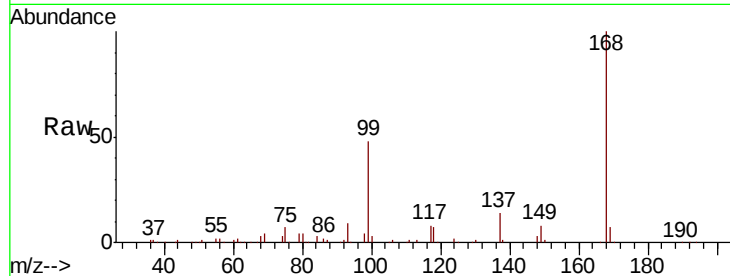


#1

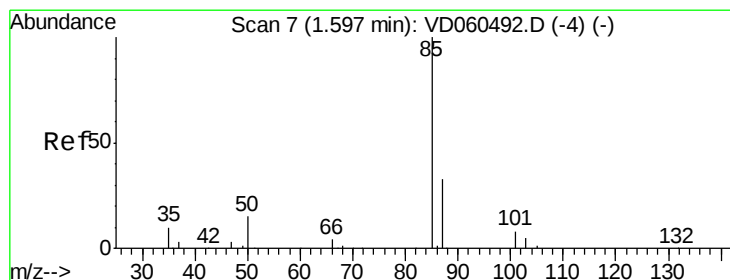
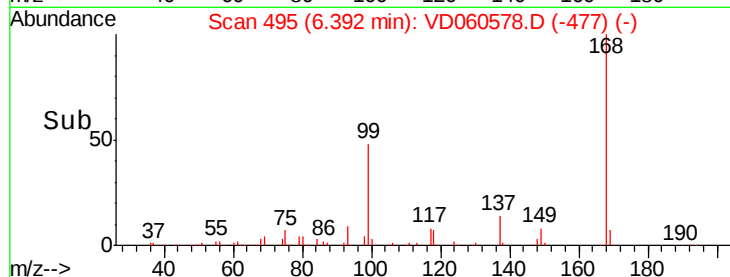
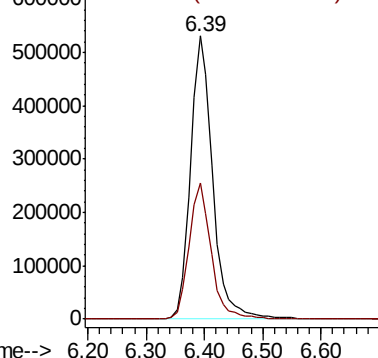
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 6.39 min Scan# 495
 Delta R.T. -0.03 min
 Lab File: VD060578.D
 Acq: 14 Dec 2018 17:30

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:168 Resp: 1401000
 Ion Ratio Lower Upper
 168 100
 99 48.2 35.6 53.4



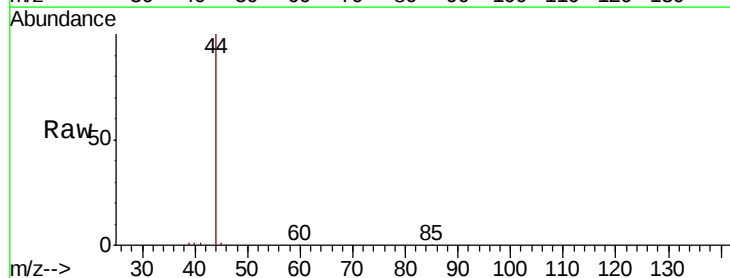
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



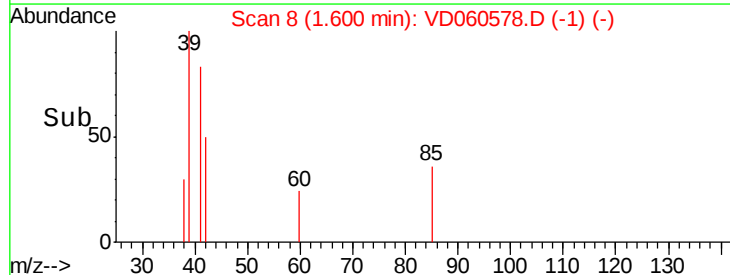
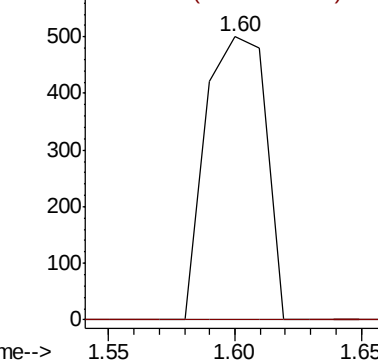
#2

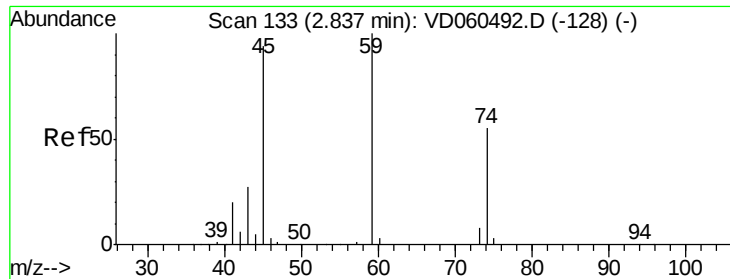
Dichlorodifluoromethane
 Concen: Below Cal
 RT: 1.60 min Scan# 8
 Delta R.T. 0.00 min
 Lab File: VD060578.D
 Acq: 14 Dec 2018 17:30

Tgt Ion: 85 Resp: 827
 Ion Ratio Lower Upper
 85 100
 87 0.0 16.7 50.0#



Abundance Ion 84.95 (84.65 to 85.65): VDC
 Ion 86.90 (86.60 to 87.60): VDC





#8

Diethyl Ether

Concen: 1.166 ug/l

RT: 2.82 min Scan# 132

Delta R.T. -0.02 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

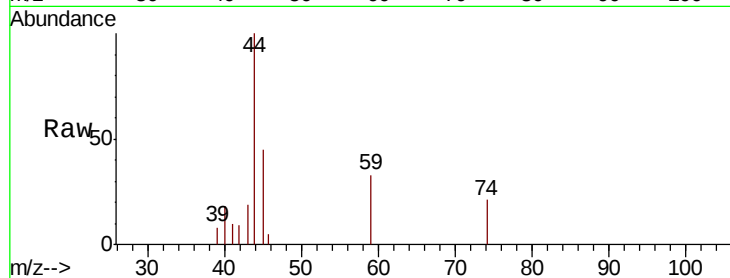
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 74 Resp: 2671

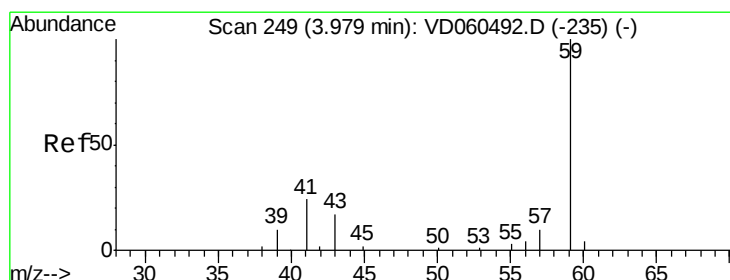
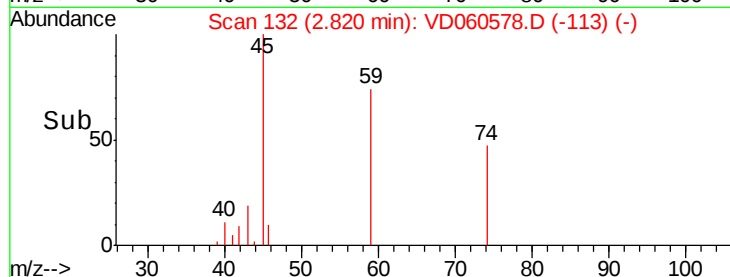
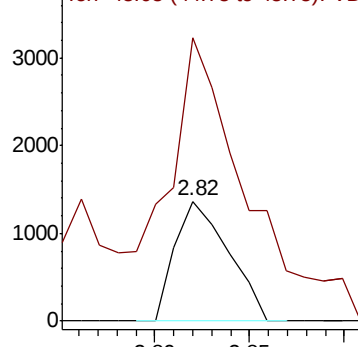
Ion Ratio Lower Upper

74 100

45 235.6 86.0 258.0



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC



#11

Tert butyl alcohol

Concen: 1.453 ug/l

RT: 3.95 min Scan# 247

Delta R.T. -0.03 min

Lab File: VD060578.D

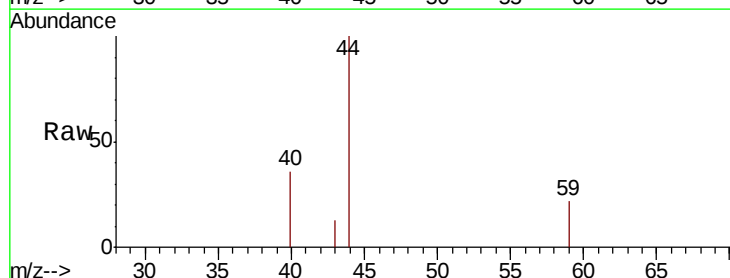
Acq: 14 Dec 2018 17:30

Tgt Ion: 59 Resp: 586

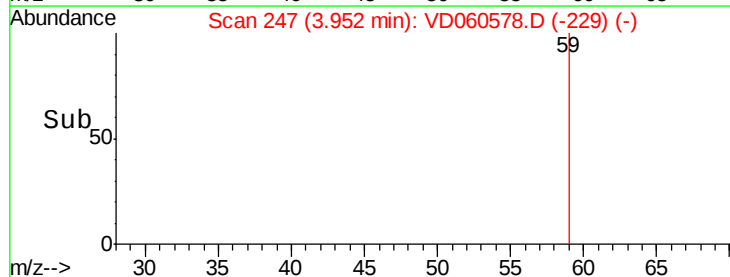
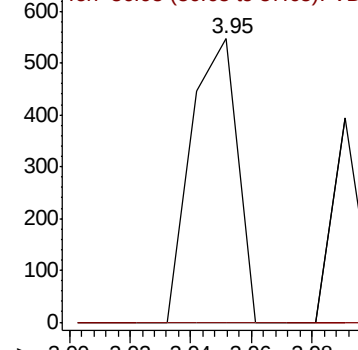
Ion Ratio Lower Upper

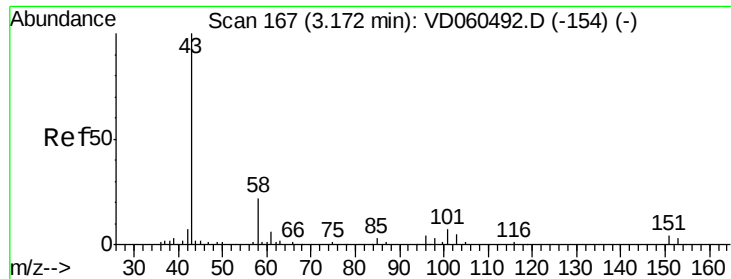
59 100

57 0.0 8.1 12.1#



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

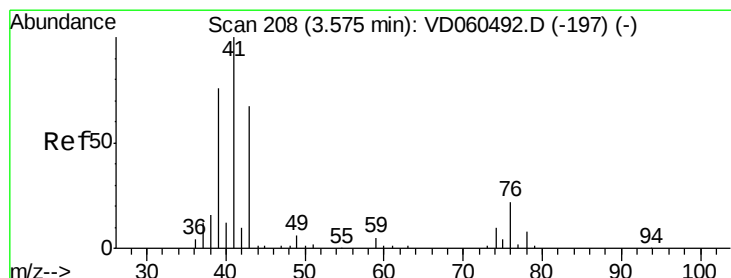
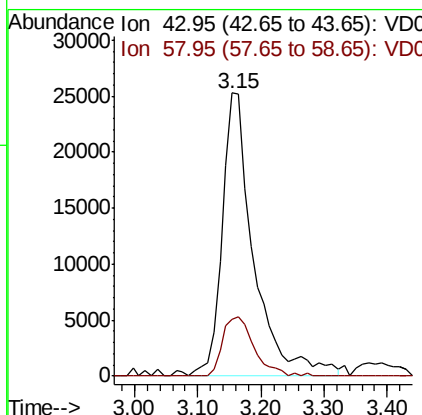
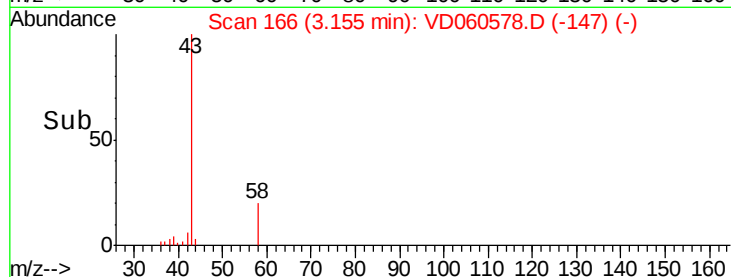
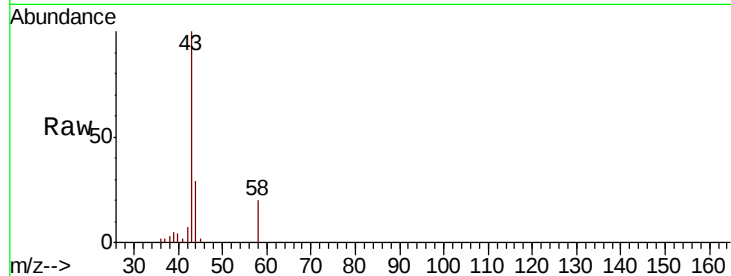




#16
Acetone
Concen: 55.260 ug/l
RT: 3.15 min Scan# 166
Delta R.T. -0.02 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

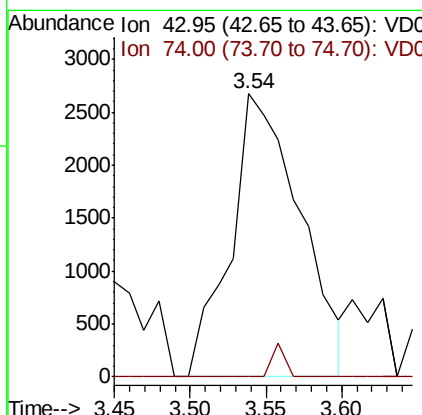
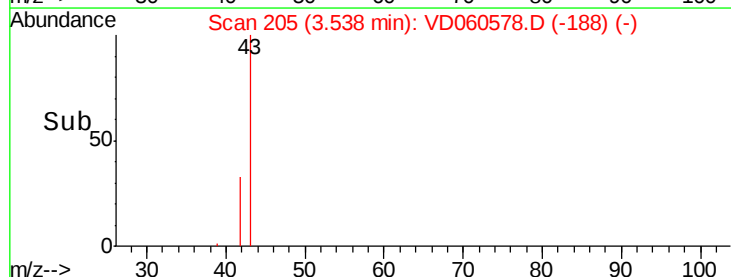
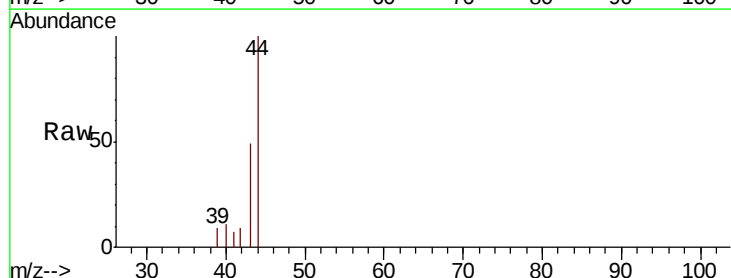
Instrument :
MSVOA_D
ClientSampled :

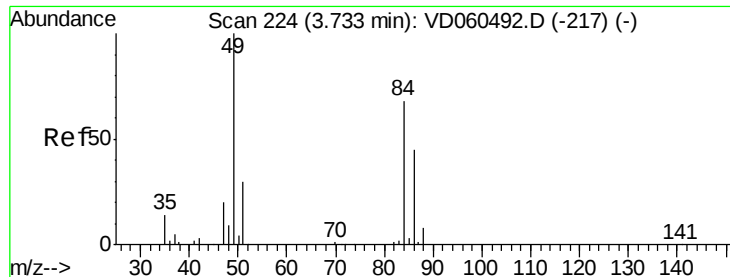
Tot Ion: 43 Resp: 87959
Ion Ratio Lower Upper
43 100
58 20.0 17.3 25.9



#18
Methyl Acetate
Concen: 2.255 ug/l
RT: 3.54 min Scan# 205
Delta R.T. -0.04 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Tgt Ion: 43 Resp: 8532
Ion Ratio Lower Upper
43 100
74 0.0 12.0 18.0#

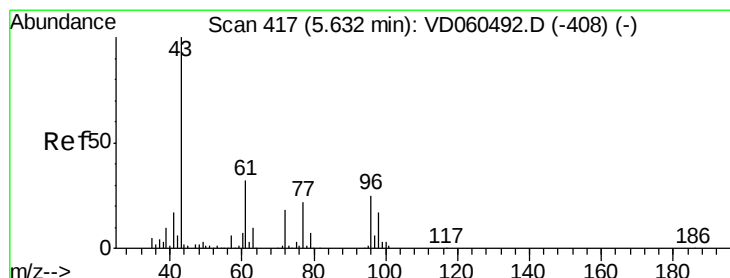
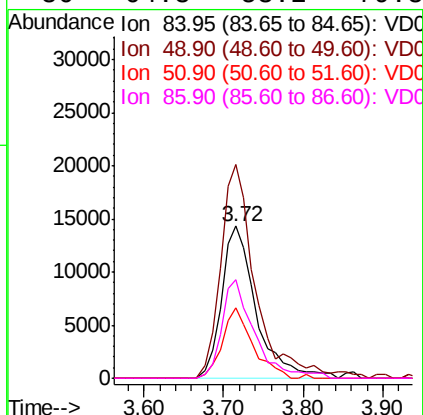
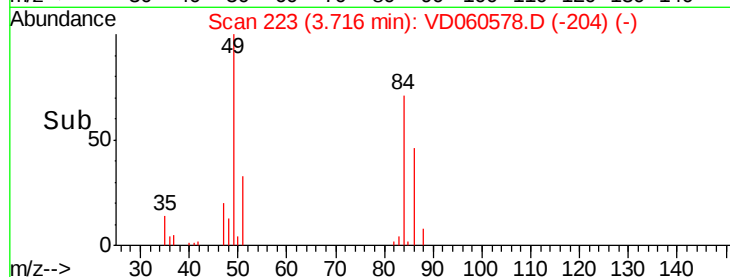
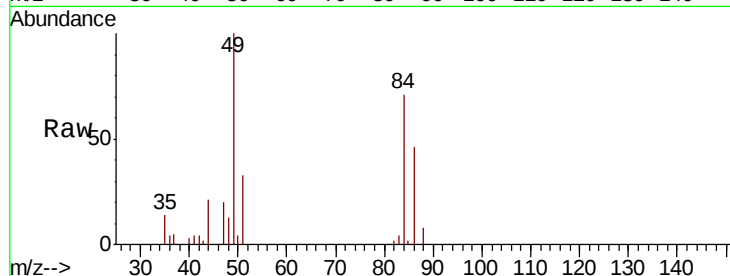




#20
Methvlene Chloride
Concen: Below Cal
RT: 3.72 min Scan# 223
Delta R.T. -0.02 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

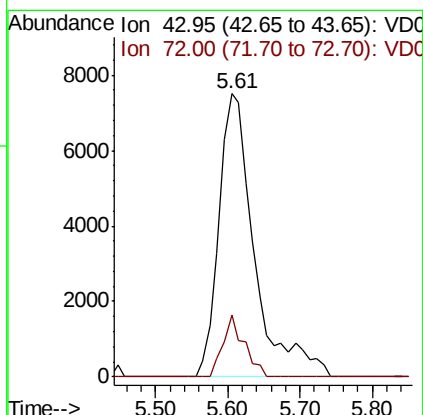
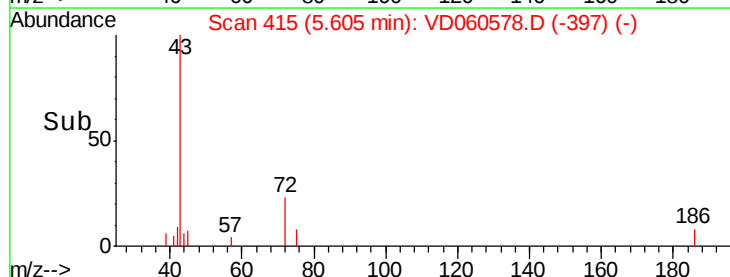
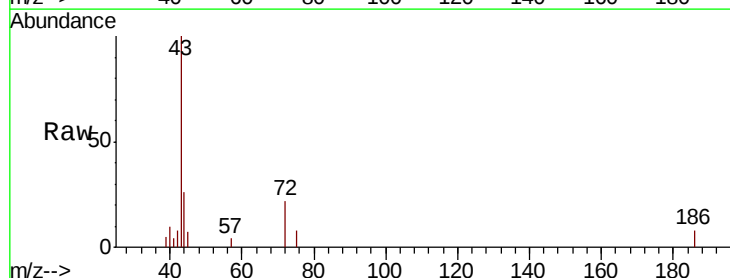
Instrument :
MSVOA_D
ClientSampleId :

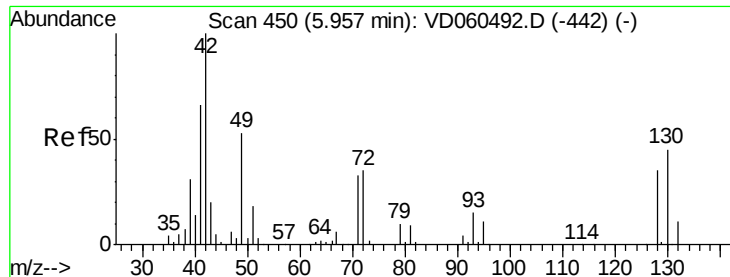
Tot Ion: 84 Resp: 43320
Ion Ratio Lower Upper
84 100
49 140.8 117.2 175.8
51 46.3 35.3 52.9
86 64.8 53.2 79.8



#25
2-Butanone
Concen: 8.179 ug/l
RT: 5.61 min Scan# 415
Delta R.T. -0.03 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Tgt Ion: 43 Resp: 25613
Ion Ratio Lower Upper
43 100
72 22.0 14.6 21.8#

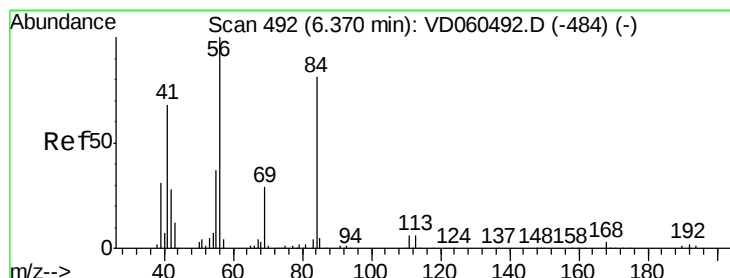
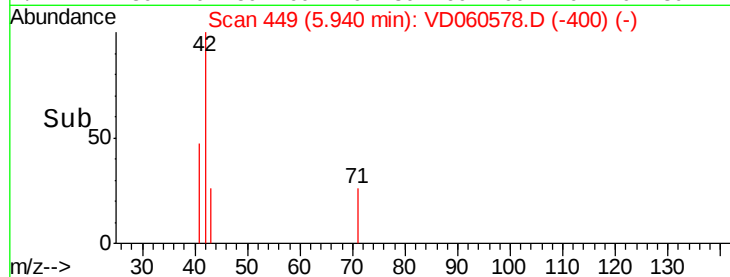
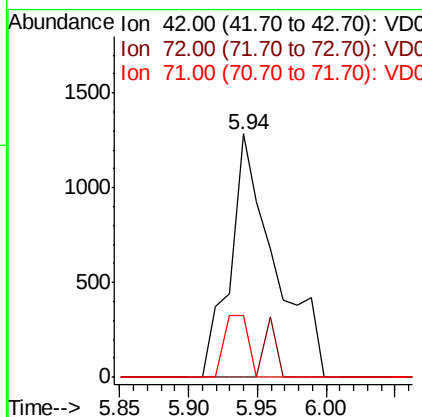
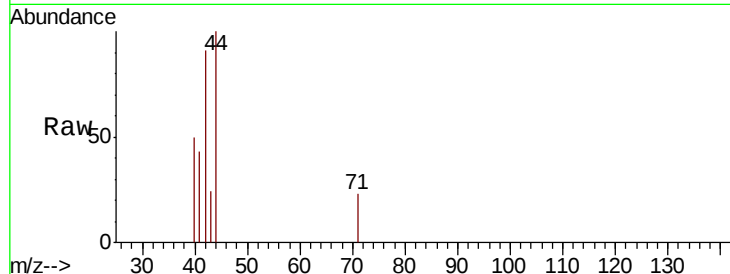




#29
Tetrahydrofuran
Concen: 1.636 ug/l
RT: 5.94 min Scan# 449
Delta R.T. -0.02 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

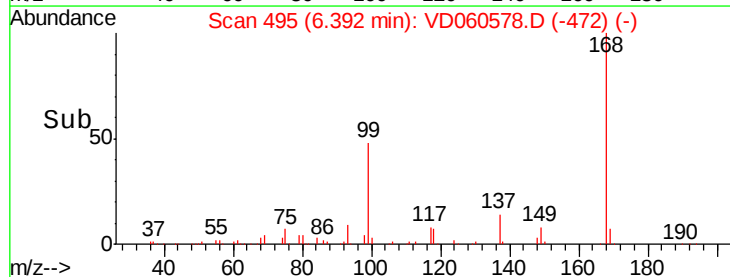
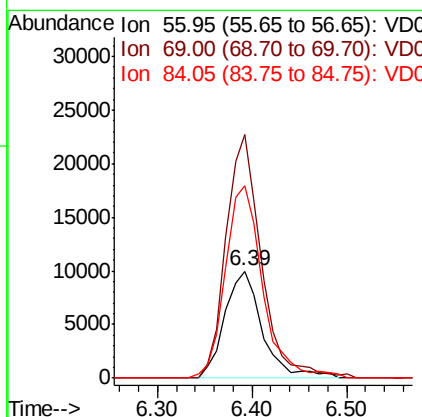
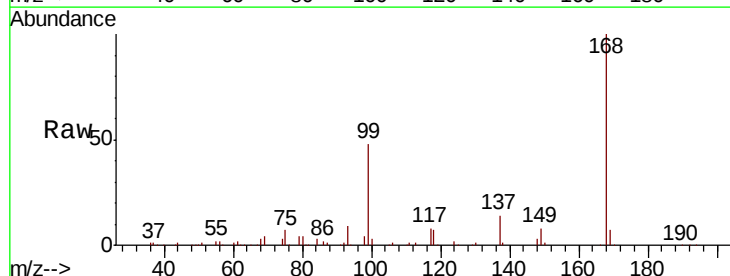
Instrument :
MSVOA_D
ClientSampleId :

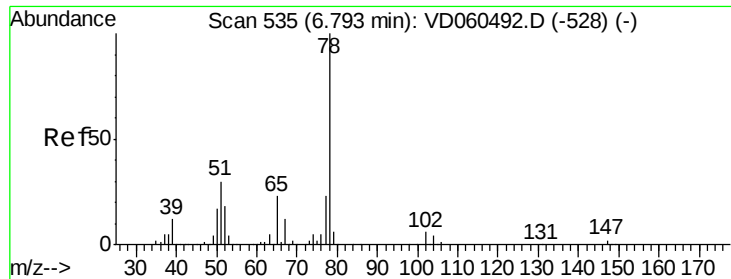
Tot Ion	Ratio	Lower	Upper
42	100		
72	6.5	28.0	42.0#
71	13.3	27.2	40.8#



#31
Cyclohexane
Concen: Below Cal
RT: 6.39 min Scan# 495
Delta R.T. 0.02 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Tgt Ion	Ratio	Lower	Upper
56	100		
69	227.2	22.8	34.2#
84	179.3	65.1	97.7#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 6.77 min Scan# 533

Delta R.T. -0.03 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

Instrument :

MSVOA_D

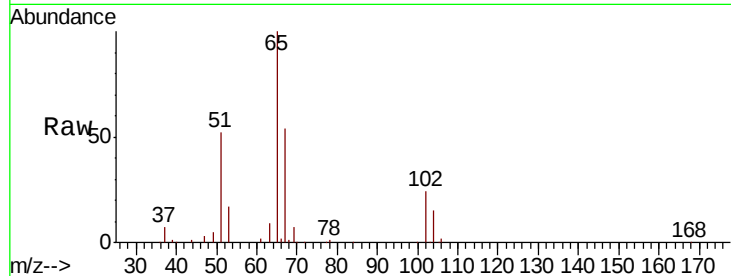
ClientSampled :

Tot Ion: 65 Resp: 450166

Ion Ratio Lower Upper

65 100

67 54.2 0.0 106.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.77

150000

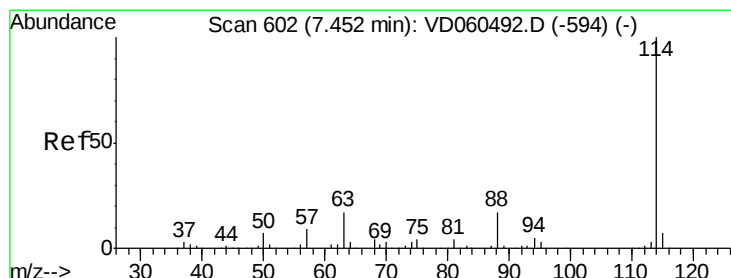
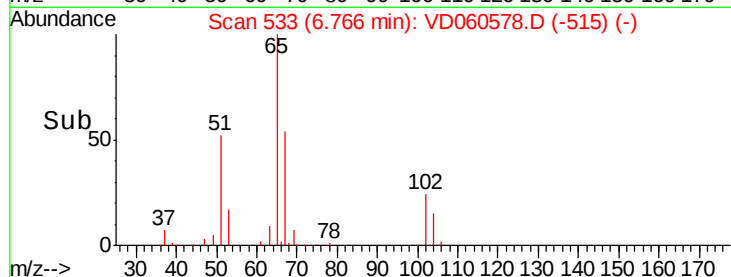
100000

50000

0

6.70 6.80 6.90

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.43 min Scan# 600

Delta R.T. -0.03 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

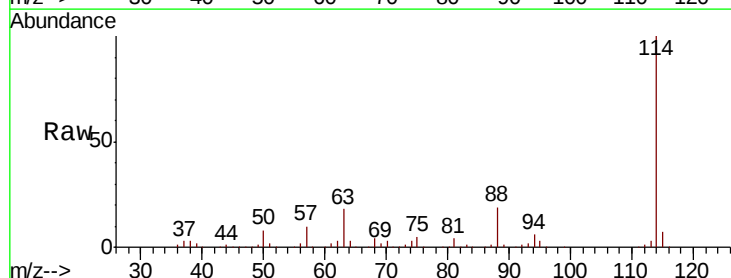
Tgt Ion: 114 Resp: 1770654

Ion Ratio Lower Upper

114 100

63 18.3 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): VDC

Ion 87.90 (87.60 to 88.60): VDC

1000000

800000

600000

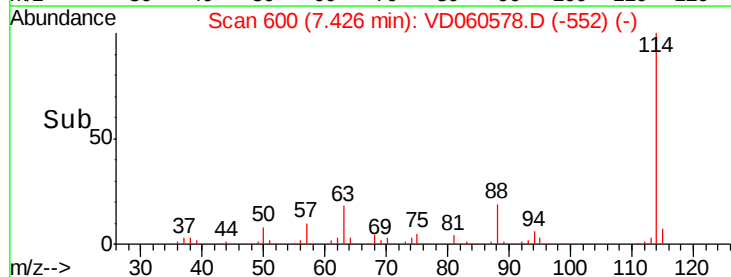
400000

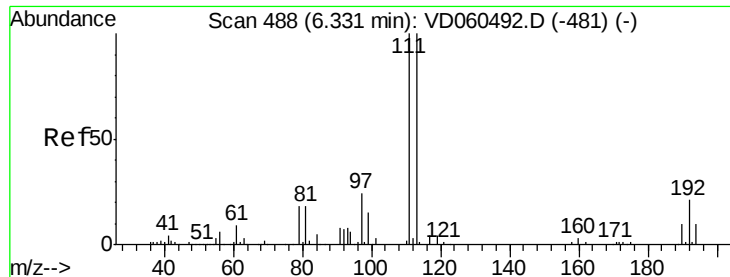
200000

0

7.20 7.40 7.60 7.80

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.31 min Scan# 487

Delta R.T. -0.02 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

Instrument :
MSVOA_D
ClientSampleId :

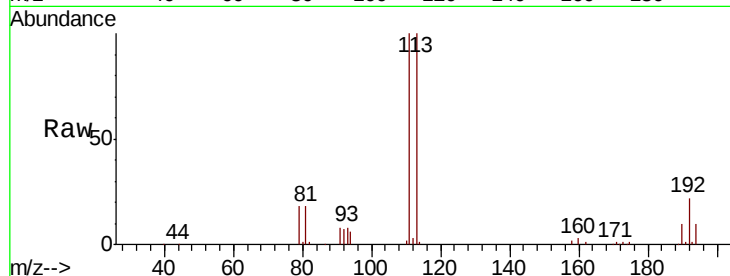
Tot Ion:113 Resp: 652671

Ion Ratio Lower Upper

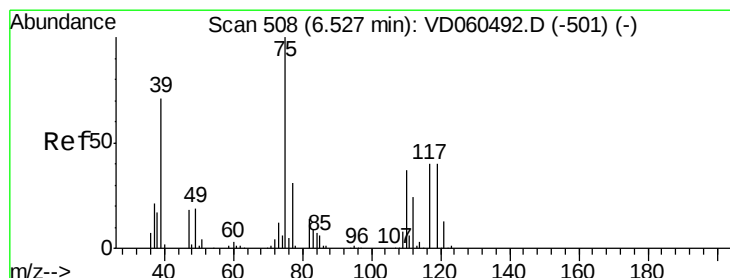
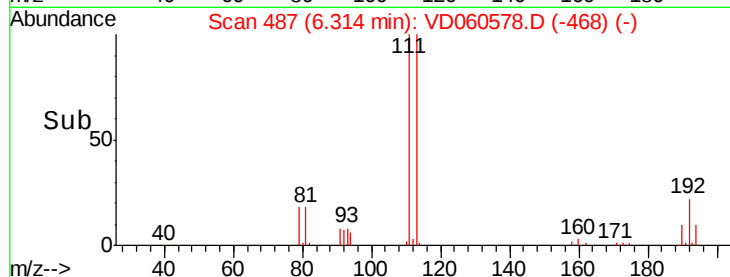
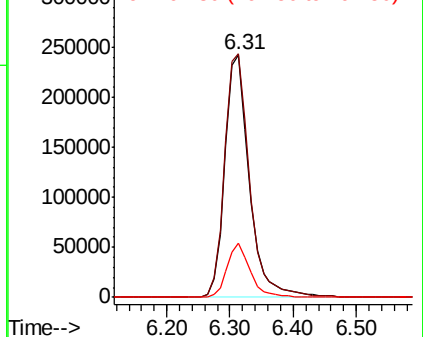
113 100

111 100.5 80.2 120.4

192 22.4 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: 5.655 ug/l

RT: 6.39 min Scan# 495

Delta R.T. -0.14 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

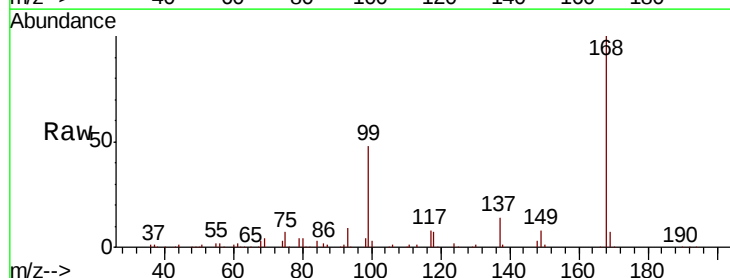
Tgt Ion: 75 Resp: 97878

Ion Ratio Lower Upper

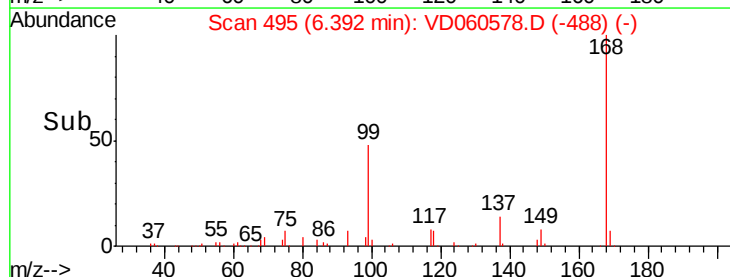
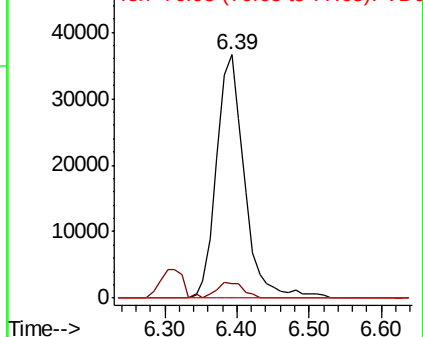
75 100

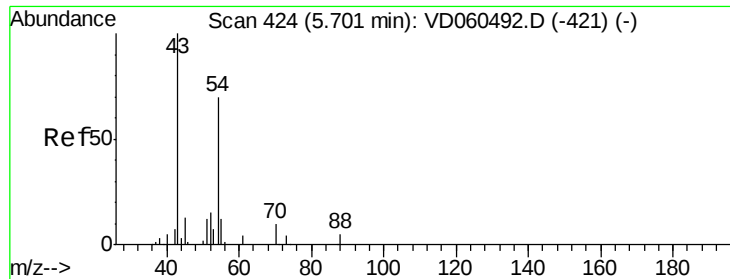
110 5.8 18.3 54.8#

77 0.0 24.6 37.0#



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

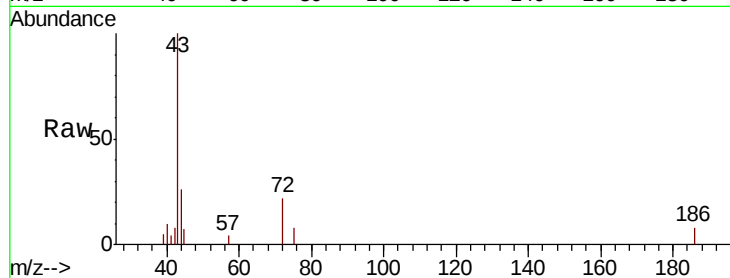




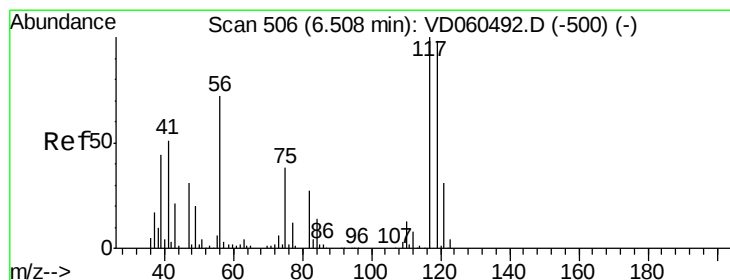
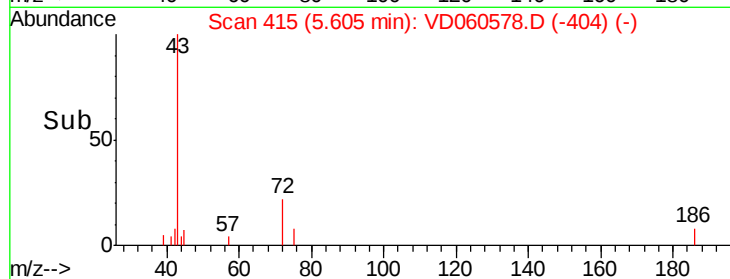
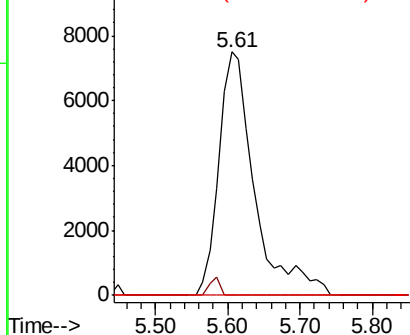
#37
Ethyl Acetate
Concen: 3.412 ug/l
RT: 5.61 min Scan# 415
Delta R.T. -0.10 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 25613
Ion Ratio Lower Upper
43 100
61 0.0 12.4 18.6#
70 0.0 5.4 8.0#

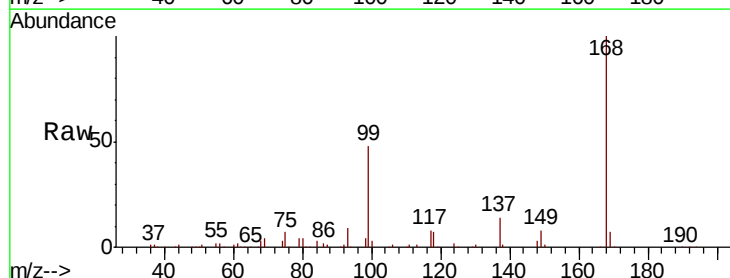


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

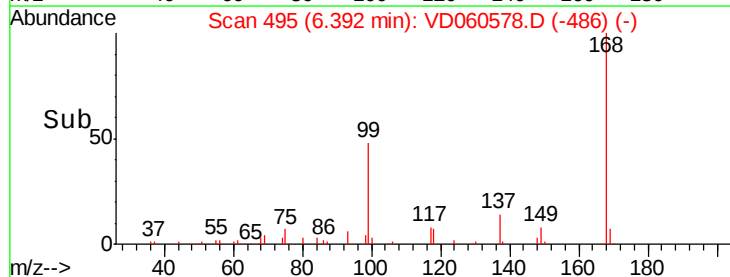
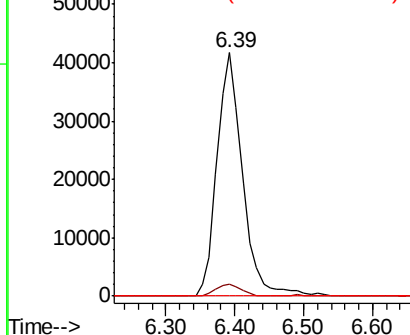


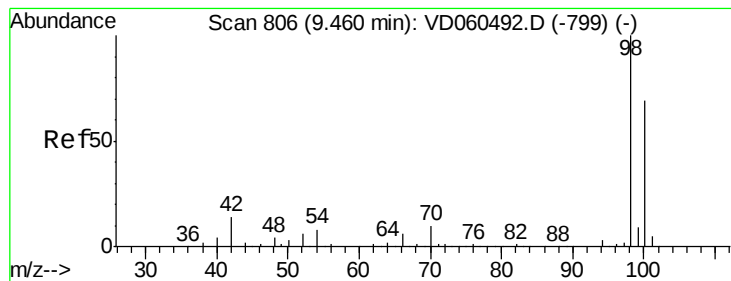
#38
Carbon Tetrachloride
Concen: 6.908 ug/l
RT: 6.39 min Scan# 495
Delta R.T. -0.12 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Tgt Ion: 117 Resp: 107341
Ion Ratio Lower Upper
117 100
119 4.7 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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 9.44 min Scan# 805

Delta R.T. -0.02 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

Instrument :

MSVOA_D

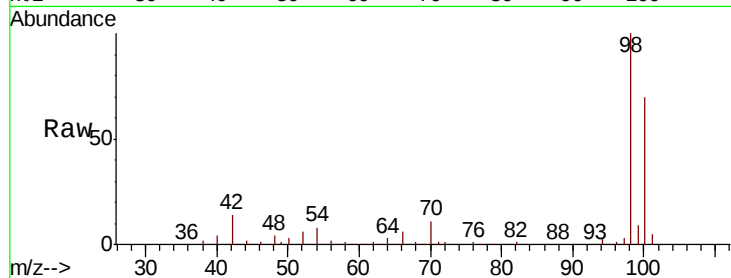
ClientSampleId :

Tot Ion: 98 Resp: 1758731

Ion Ratio Lower Upper

98 100

100 69.7 55.7 83.5



Abundance Ion 98.05 (97.75 to 98.75): VD060492.D (-799) (-)

Ion 100.05 (99.75 to 100.75): VD060492.D (-799) (-)

800000

600000

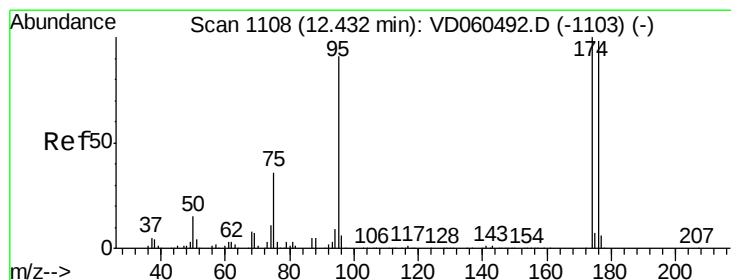
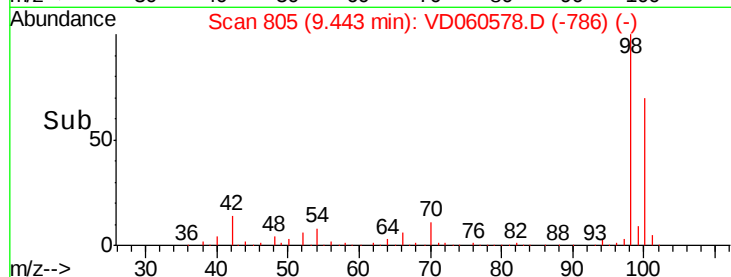
400000

200000

0

9.30 9.40 9.50 9.60

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1107

Delta R.T. -0.02 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

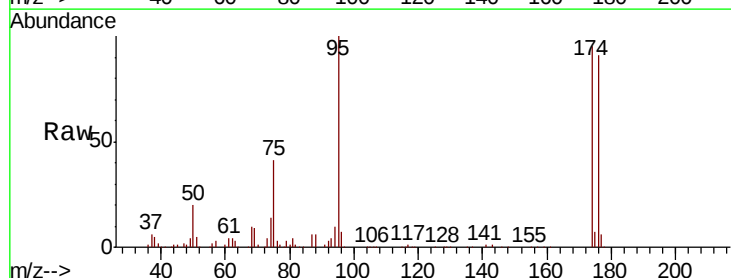
Tgt Ion: 95 Resp: 401962

Ion Ratio Lower Upper

95 100

174 94.8 0.0 219.4

176 91.0 0.0 214.6



Abundance Ion 95.00 (94.70 to 95.70): VD060492.D (-1103) (-)

Ion 173.90 (173.60 to 174.60): VD060492.D (-1103) (-)

Ion 175.90 (175.60 to 176.60): VD060492.D (-1103) (-)

400000

300000

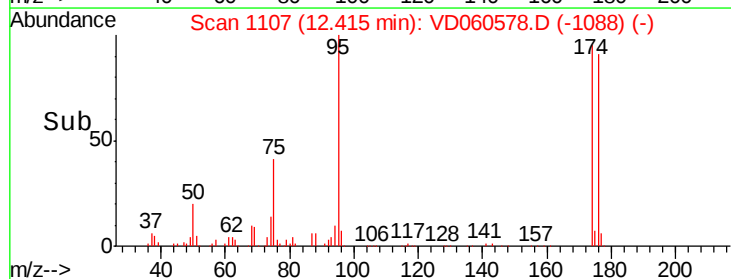
200000

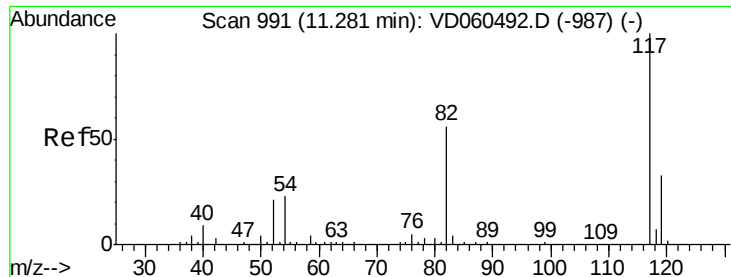
100000

0

12.30 12.40 12.50

Time-->

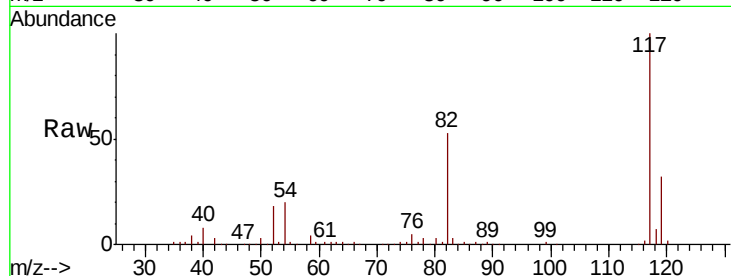




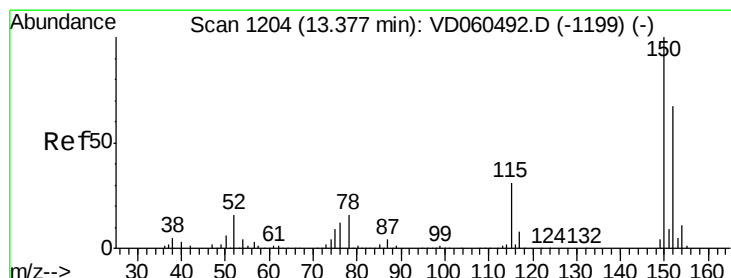
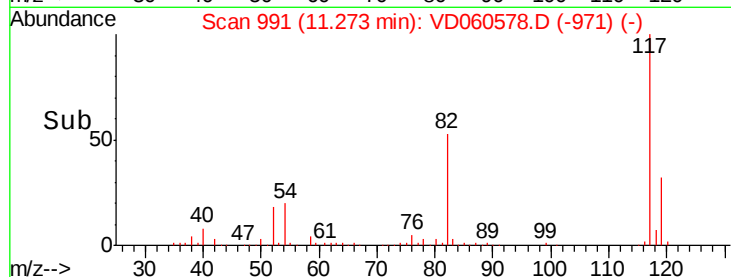
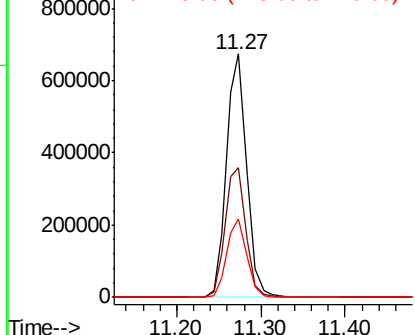
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.27 min Scan# 991
Delta R.T. -0.01 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 1117485
Ion Ratio Lower Upper
117 100
82 53.2 45.2 67.8
119 32.4 26.1 39.1

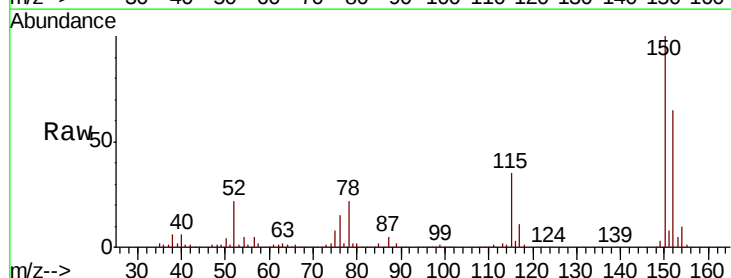


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

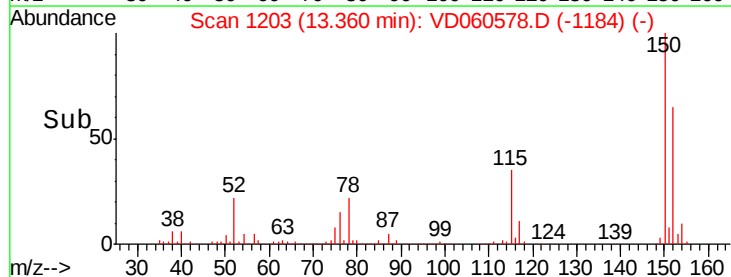
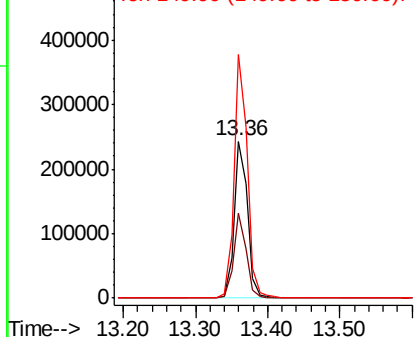


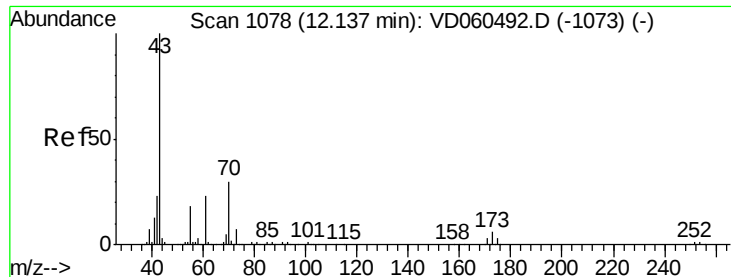
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.36 min Scan# 1203
Delta R.T. -0.02 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Tgt Ion:152 Resp: 313350
Ion Ratio Lower Upper
152 100
115 53.7 24.6 74.0
150 154.9 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





#74

N-amvl acetate

Concen: 2.157 ug/l

RT: 12.19 min Scan# 1084

Delta R.T. 0.05 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 11560

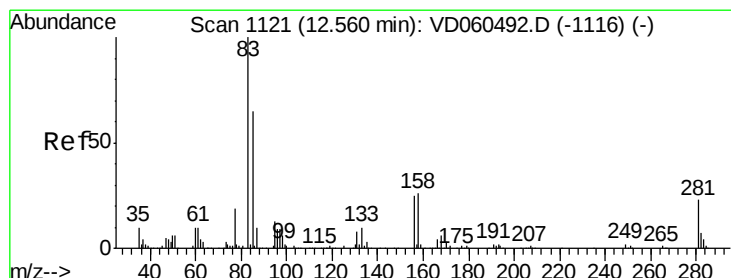
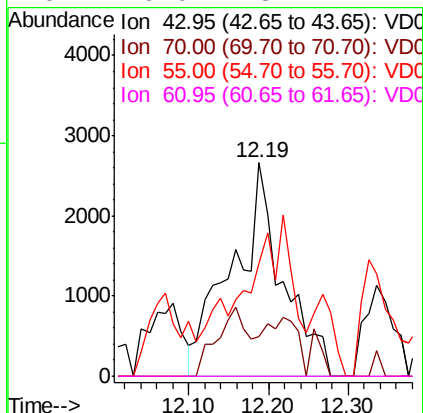
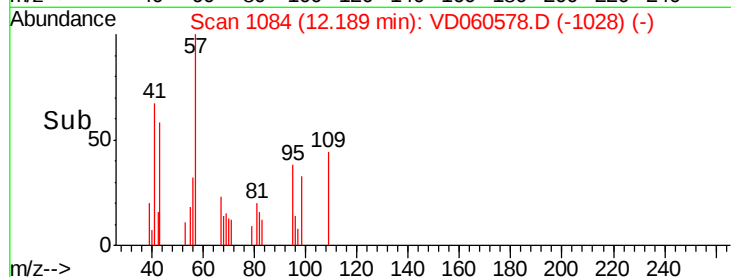
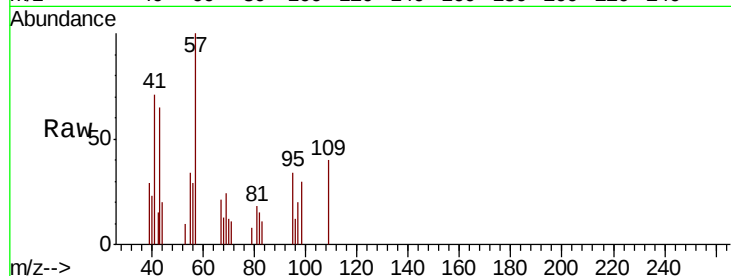
Ion Ratio Lower Upper

43 100

70 18.8 23.8 35.8#

55 52.8 14.2 21.2#

61 0.0 18.1 27.1#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.379 ug/l

RT: 12.57 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VD060578.D

Acq: 14 Dec 2018 17:30

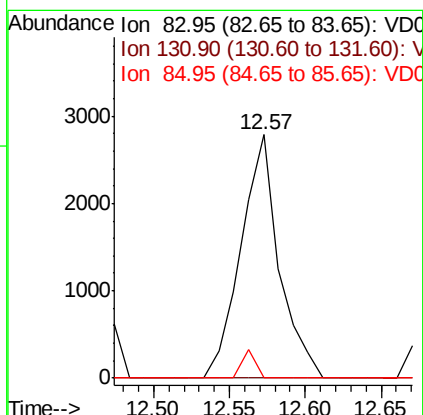
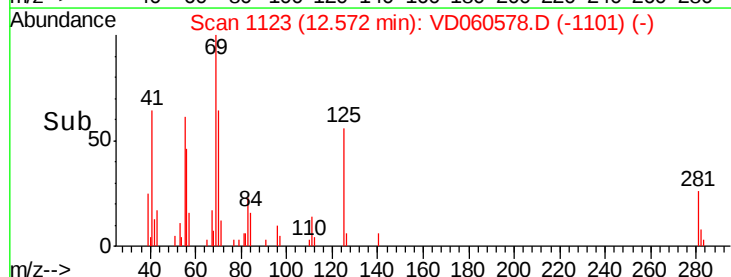
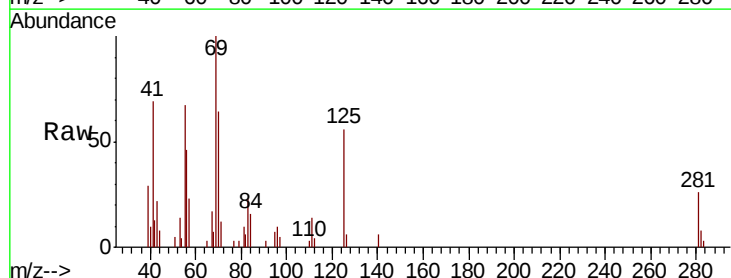
Tgt Ion: 83 Resp: 4897

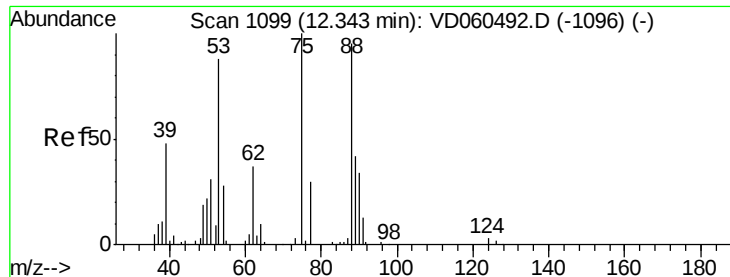
Ion Ratio Lower Upper

83 100

131 0.0 3.8 11.4#

85 0.0 32.3 96.9#

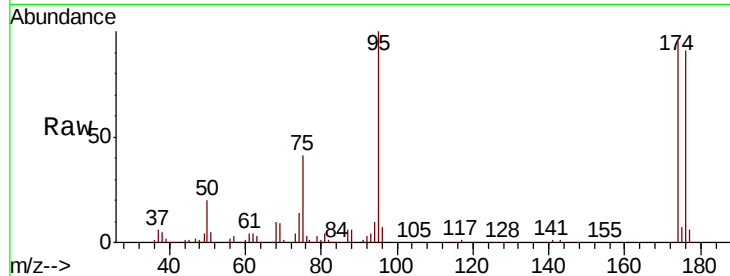




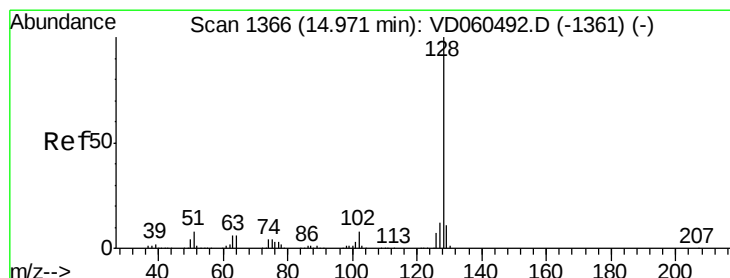
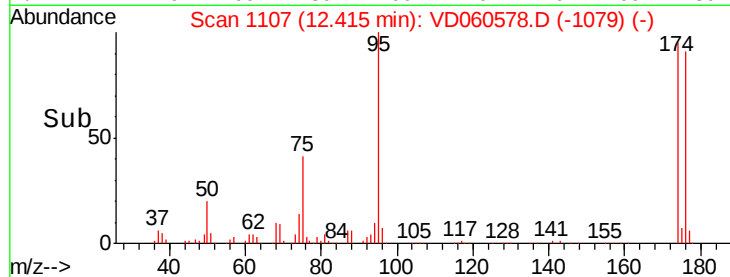
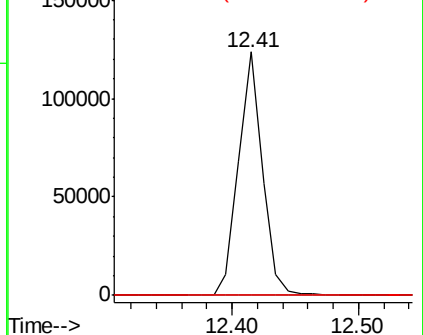
#81
trans-1,4-Dichloro-2-butene
Concen: 163.244 ug/l
RT: 12.41 min Scan# 1107
Delta R.T. 0.07 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 161650
Ion Ratio Lower Upper
75 100
53 0.0 70.5 105.7#
89 0.0 33.6 50.4#

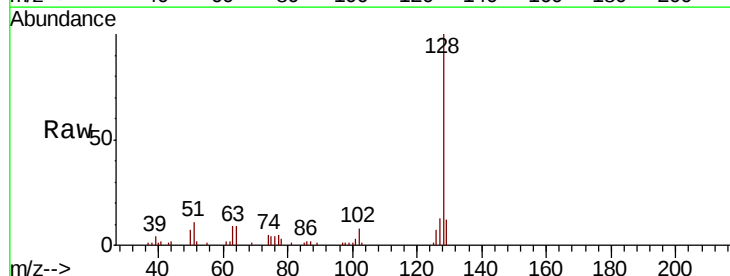


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC



#95
Naphthalene
Concen: 10.590 ug/l
RT: 14.95 min Scan# 1365
Delta R.T. -0.02 min
Lab File: VD060578.D
Acq: 14 Dec 2018 17:30

Tgt Ion:128 Resp: 84937
Ion Ratio Lower Upper
128 100
127 12.6 9.8 14.8
129 11.7 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

