

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD061818\
 Data File : VD058179.D
 Acq On : 18 Jun 2018 14:17
 Operator : VA/AP
 Sample : J3518-01RE
 Misc : 6.61g/5ml/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 19 05:48:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D060618S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 07 08:57:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	63927	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	89736	50.00	ug/l	-0.02
63) Chlorobenzene-d5	10.68	117	80531	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	39916	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.01	65	56585	88.54	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	177.08%	
35) Dibromofluoromethane	5.54	113	43850	63.16	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	126.32%	
50) Toluene-d8	8.70	98	93737	56.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.58%	
62) 4-Bromofluorobenzene	11.93	95	41908	58.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.40%	

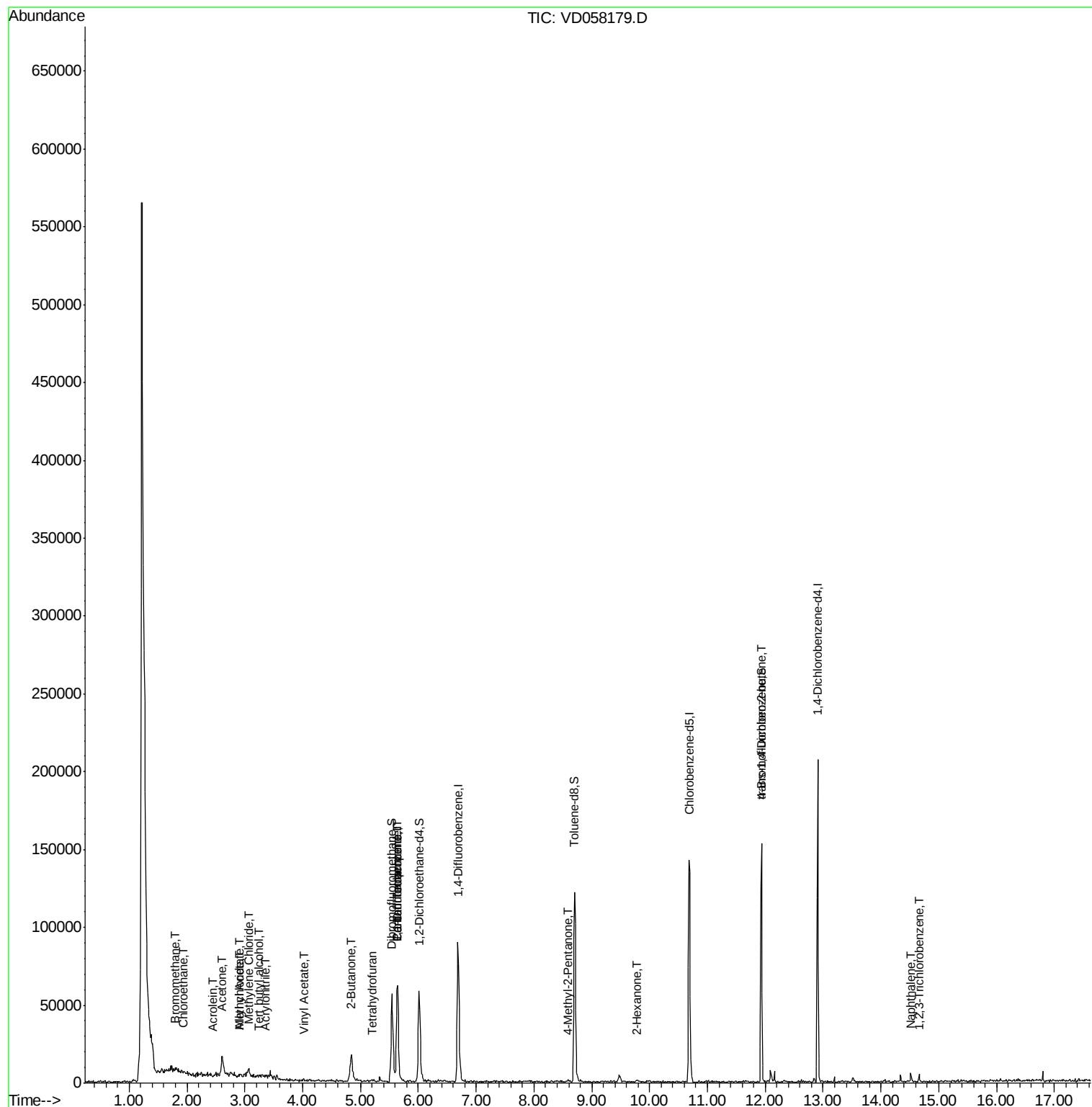
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.80	94	253	1.578	ug/l #	3
6) Chloroethane	1.93	64	222	1.376	ug/l #	46
11) Tert butyl alcohol	3.24	59	249	14.544	ug/l #	74
13) Acrolein	2.44	56	233	9.503	ug/l #	16
14) Allyl chloride	2.92	41	823	1.392	ug/l #	56
15) Acrylonitrile	3.35	53	532	5.311	ug/l #	63
16) Acetone	2.61	43	28972	314.644	ug/l	98
18) Methyl Acetate	2.93	43	2836	15.922	ug/l #	66
20) Methylene Chloride	3.07	84	2112	1.823	ug/l #	56
23) Vinyl Acetate	4.02	43	1525	1.260	ug/l #	82
25) 2-Butanone	4.84	43	3653	17.457	ug/l #	64
29) Tetrahydrofuran	5.19	42	838	7.639	ug/l #	61
36) 1,1-Dichloropropene	5.64	75	4425	4.476	ug/l #	45
38) Carbon Tetrachloride	5.63	117	4507	4.626	ug/l #	12
51) 4-Methyl-2-Pentanone	8.60	43	1190	2.626	ug/l #	42
59) 2-Hexanone	9.79	43	1616	4.865	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.93	75	21008	141.458	ug/l #	6
82) 4-Chlorotoluene	12.33	91	854	Below Cal		88
89) n-Butylbenzene	13.20	91	496	Below Cal	#	30
95) Naphthalene	14.51	128	4068	3.157	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.66	180	1852	2.174	ug/l #	82

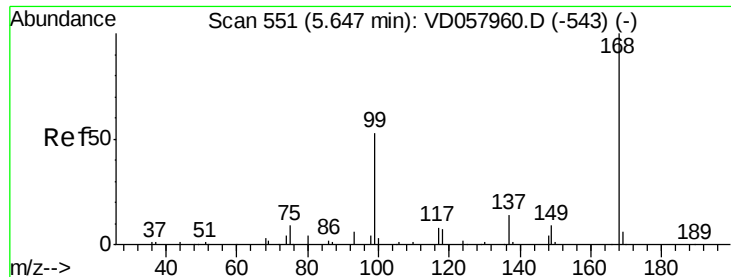
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 550

Delta R.T. -0.01 min

Lab File: VD058179.D

Acq: 18 Jun 2018 14:17

Instrument :

MSVOA_D

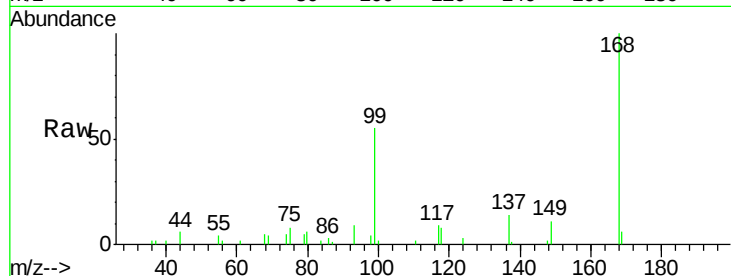
ClientSampleId :

Tot Ion:168 Resp: 63927

Ion Ratio Lower Upper

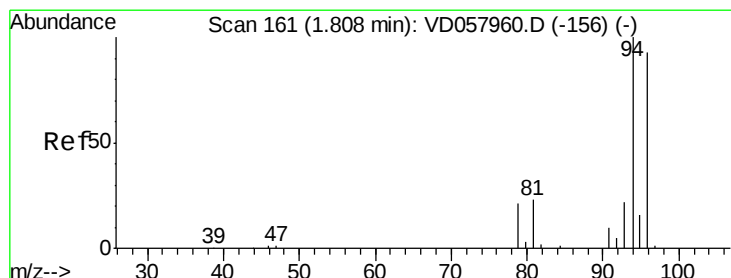
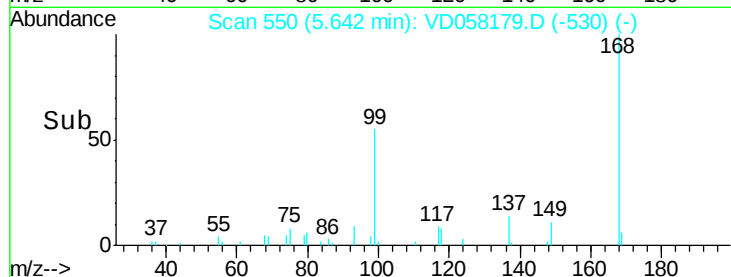
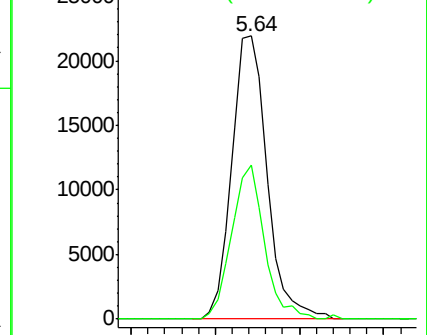
168 100

99 54.6 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 1.578 ug/l

RT: 1.80 min Scan# 160

Delta R.T. -0.01 min

Lab File: VD058179.D

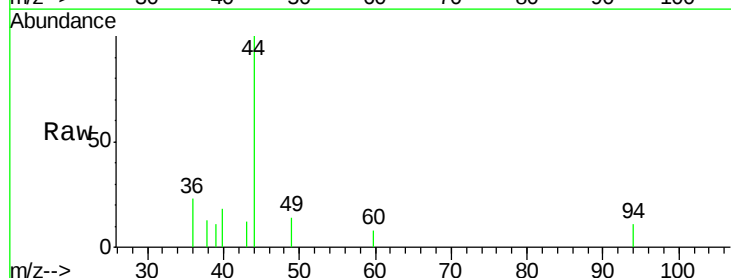
Acq: 18 Jun 2018 14:17

Tgt Ion: 94 Resp: 253

Ion Ratio Lower Upper

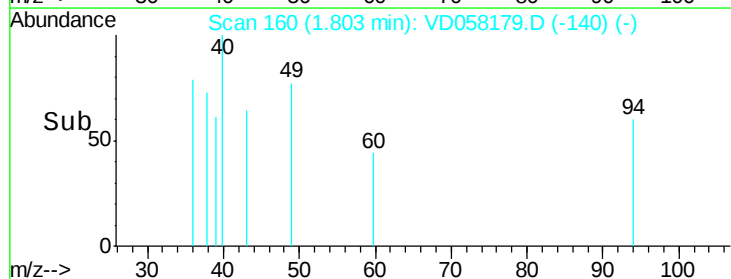
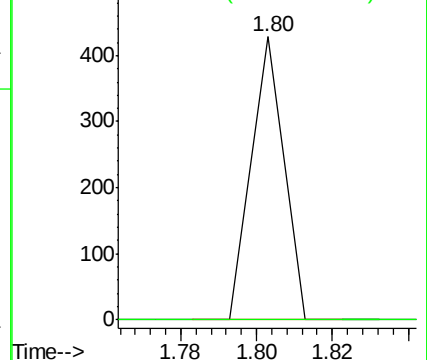
94 100

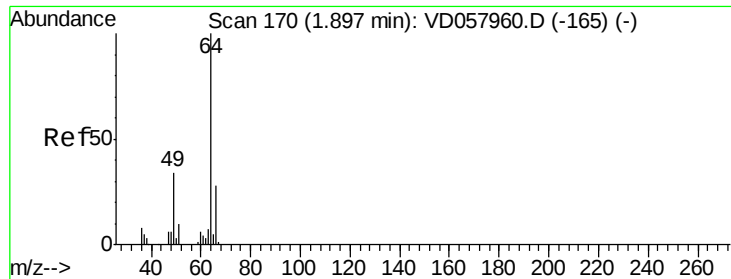
96 0.0 74.3 111.5#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#6

Chloroethane

Concen: 1.376 ug/l

RT: 1.93 min Scan# 173

Delta R.T. 0.03 min

Lab File: VD058179.D

Acq: 18 Jun 2018 14:17

Instrument :

MSVOA_D

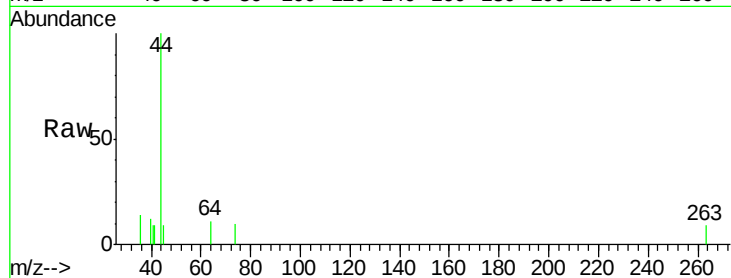
ClientSampleId :

Tot Ion: 64 Resp: 222

Ion Ratio Lower Upper

64 100

66 0.0 22.8 34.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC

1.93

400

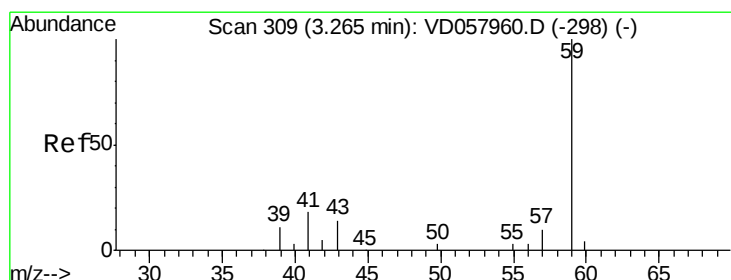
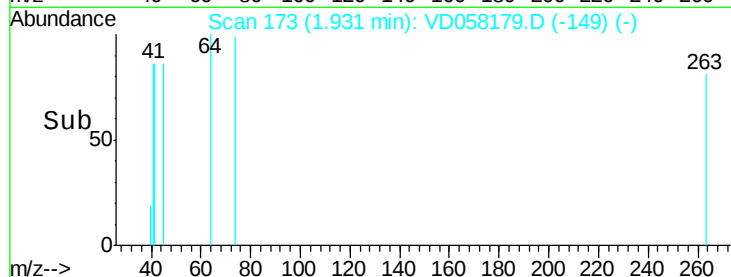
300

200

100

0

Time-->



#11

Tert butyl alcohol

Concen: 14.544 ug/l

RT: 3.24 min Scan# 306

Delta R.T. -0.02 min

Lab File: VD058179.D

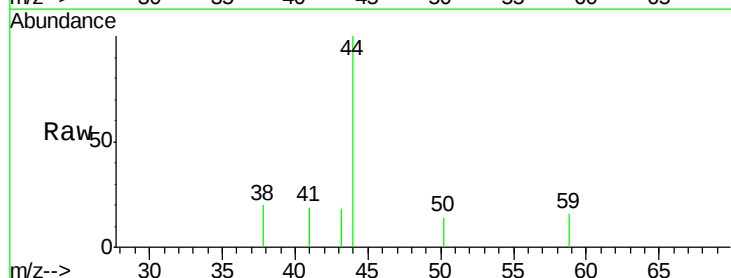
Acq: 18 Jun 2018 14:17

Tgt Ion: 59 Resp: 249

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC

500

400

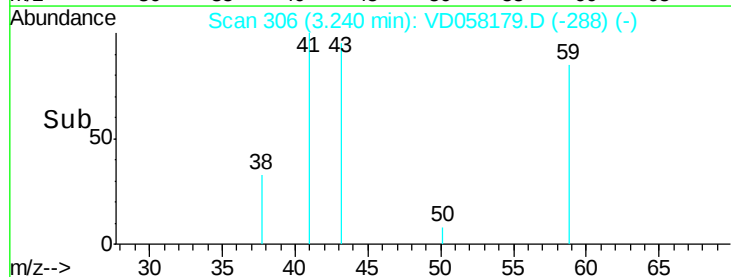
300

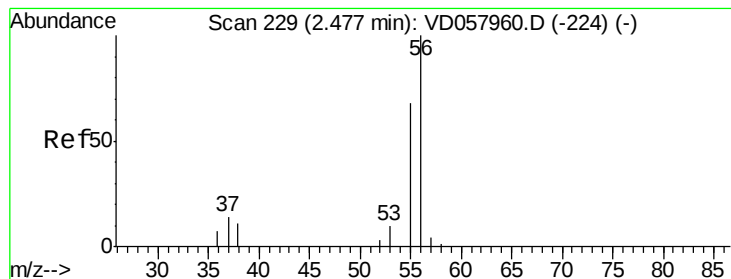
200

100

0

Time-->





#13

Acrolein

Concen: 9.503 ug/l

RT: 2.44 min Scan# 225

Delta R.T. -0.03 min

Lab File: VD058179.D

Acq: 18 Jun 2018 14:17

Instrument :

MSVOA_D

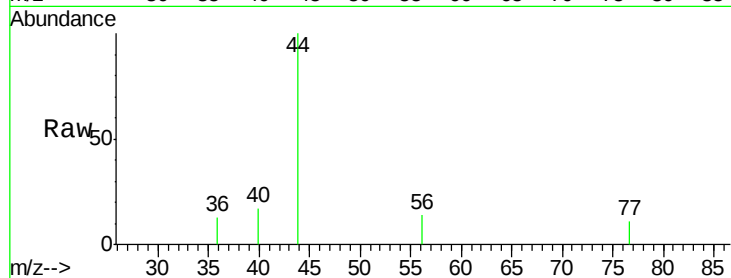
ClientSampleId :

Tot Ion: 56 Resp: 233

Ion Ratio Lower Upper

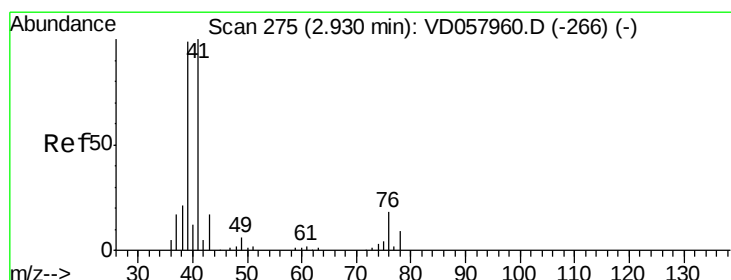
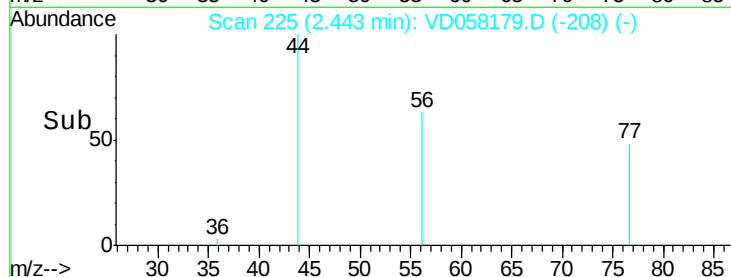
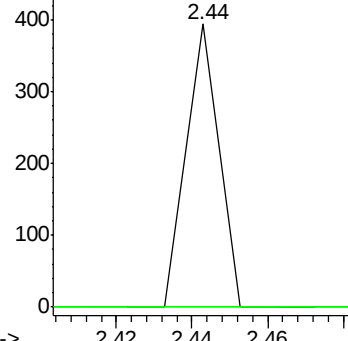
56 100

55 0.0 54.0 81.0#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 1.392 ug/l

RT: 2.92 min Scan# 273

Delta R.T. -0.02 min

Lab File: VD058179.D

Acq: 18 Jun 2018 14:17

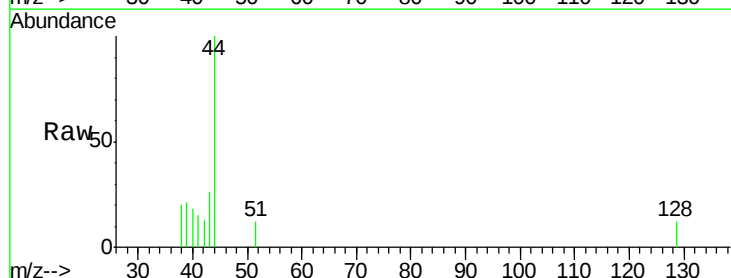
Tgt Ion: 41 Resp: 823

Ion Ratio Lower Upper

41 100

39 141.6 79.5 119.3#

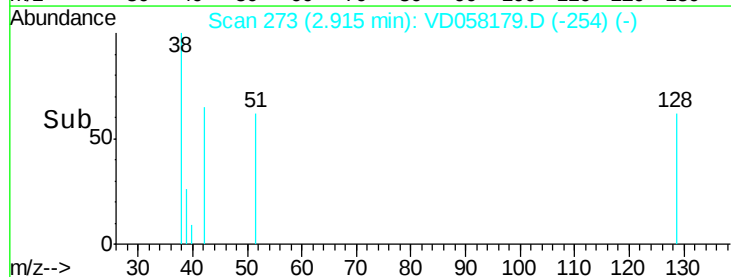
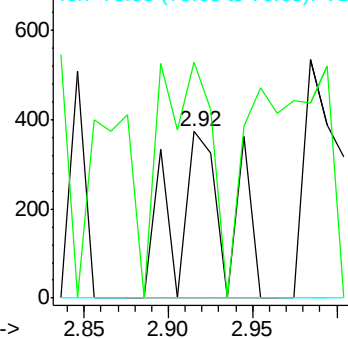
76 0.0 20.7 31.1#

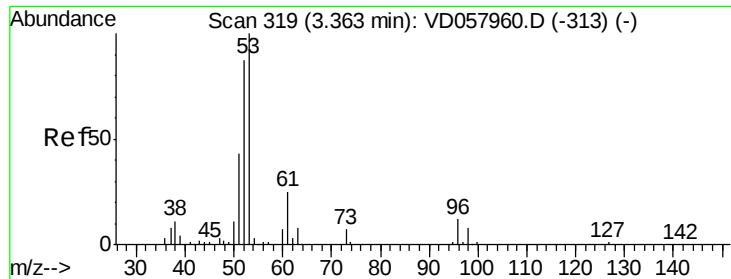


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 5.311 ug/l

RT: 3.35 min Scan# 317

Delta R.T. -0.02 min

Lab File: VD058179.D

Acq: 18 Jun 2018 14:17

Instrument :

MSVOA_D

ClientSampleId :

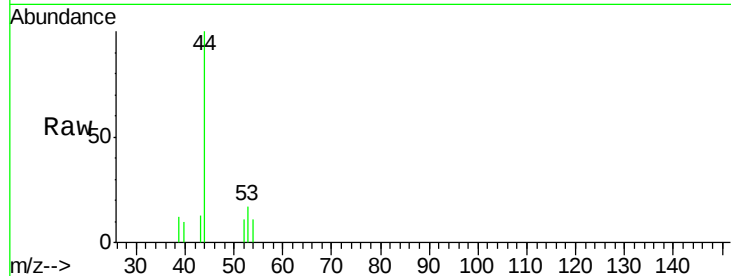
Tot Ion: 53 Resp: 532

Ion Ratio Lower Upper

53 100

52 66.2 69.9 104.9#

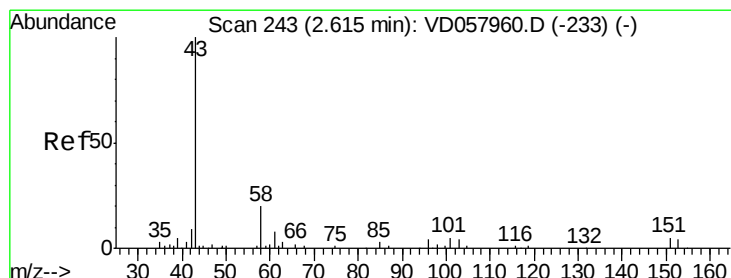
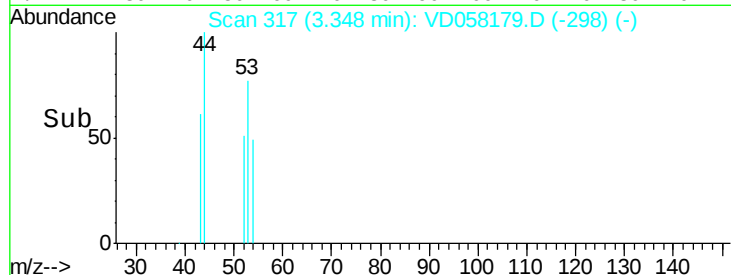
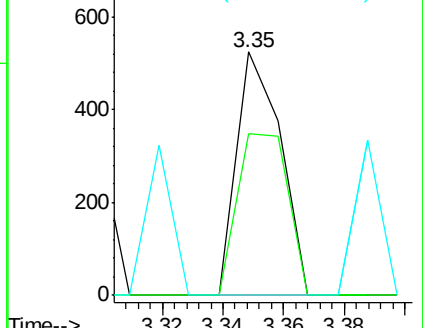
51 0.0 34.3 51.5#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 314.644 ug/l

RT: 2.61 min Scan# 242

Delta R.T. -0.01 min

Lab File: VD058179.D

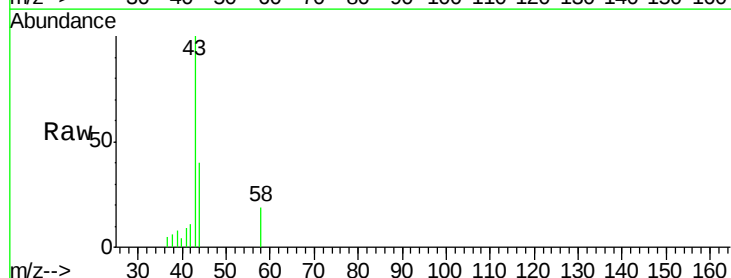
Acq: 18 Jun 2018 14:17

Tgt Ion: 43 Resp: 28972

Ion Ratio Lower Upper

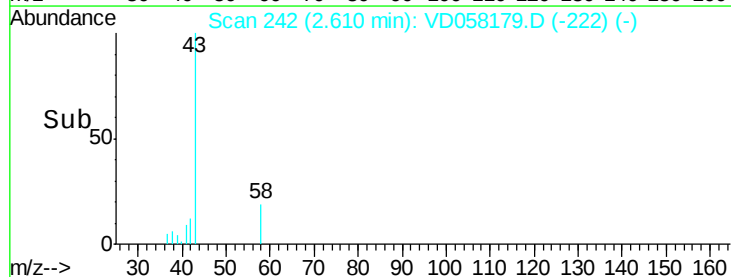
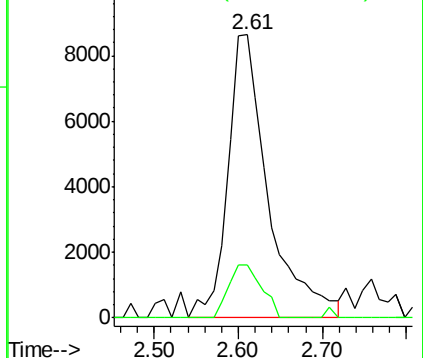
43 100

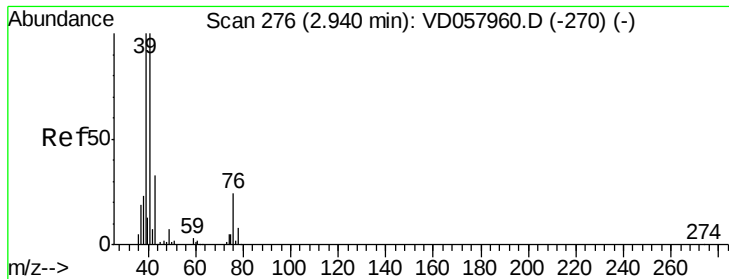
58 18.7 15.8 23.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

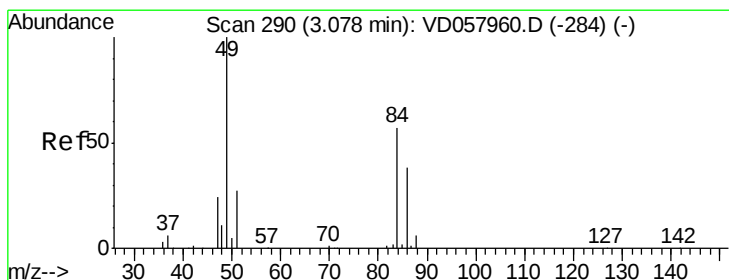
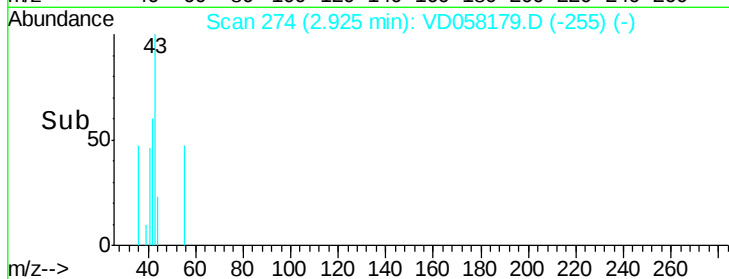
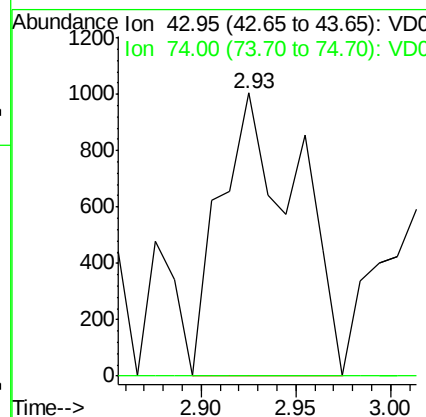
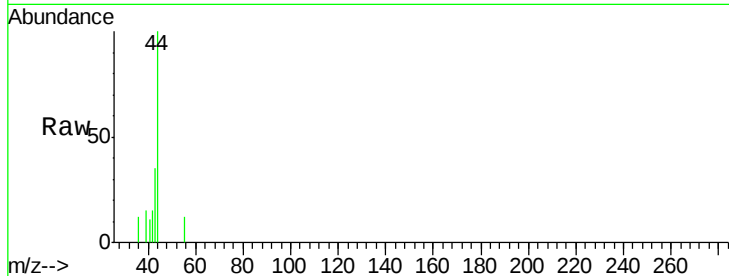




#18
Methyl Acetate
Concen: 15.922 ug/l
RT: 2.93 min Scan# 274
Delta R.T. -0.02 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

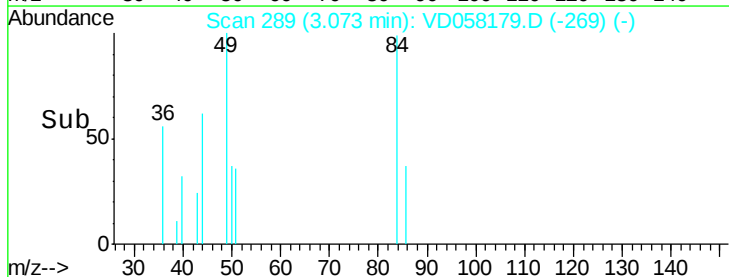
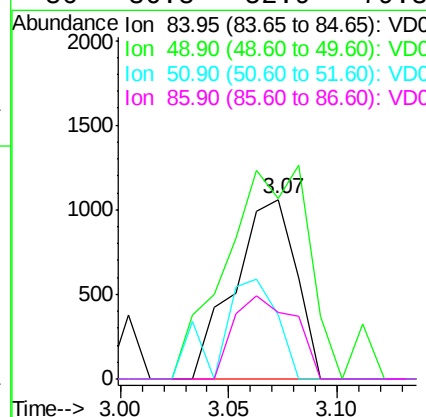
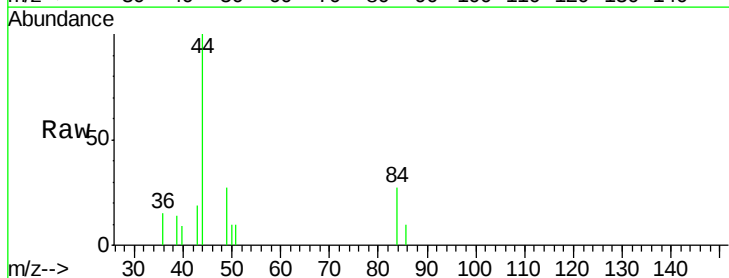
Instrument :
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ClientSampleId :

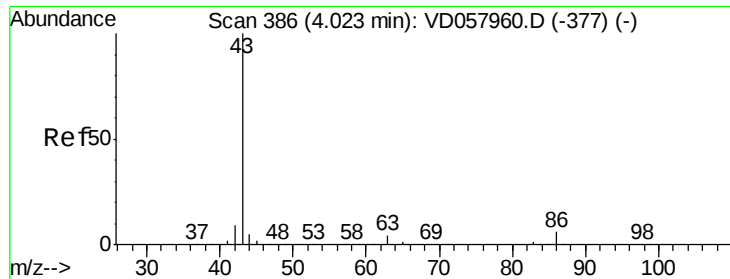
Tot Ion: 43 Resp: 2836
Ion Ratio Lower Upper
43 100
74 0.0 11.2 16.8#



#20
Methylene Chloride
Concen: 1.823 ug/l
RT: 3.07 min Scan# 289
Delta R.T. -0.00 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

Tgt Ion: 84 Resp: 2112
Ion Ratio Lower Upper
84 100
49 100.6 141.4 212.0#
51 35.8 38.3 57.5#
86 36.8 52.9 79.3#

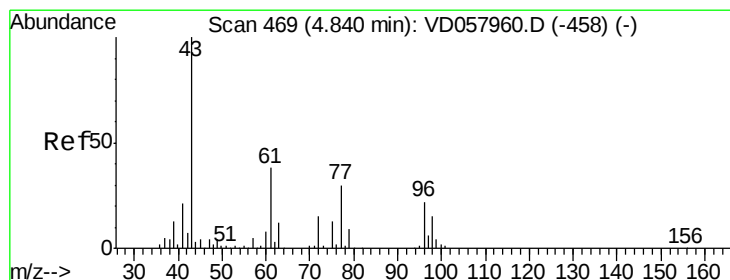
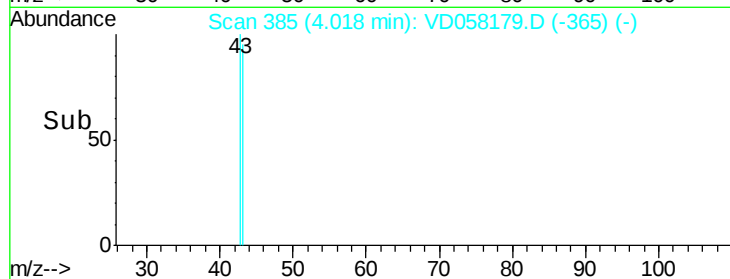
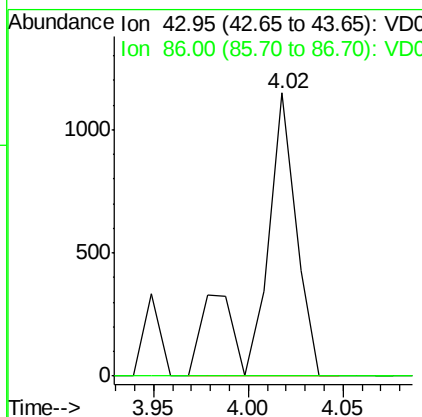
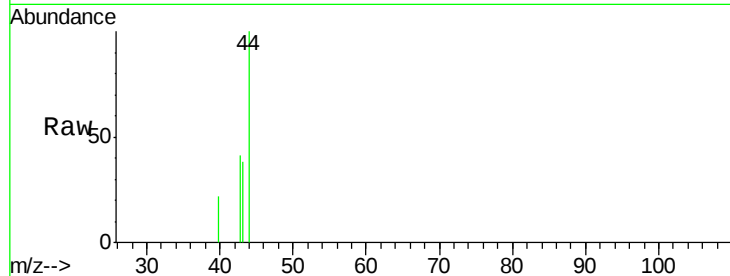




#23
 Vinyl Acetate
 Concen: 1.260 ug/l
 RT: 4.02 min Scan# 385
 Delta R.T. -0.01 min
 Lab File: VD058179.D
 Acq: 18 Jun 2018 14:17

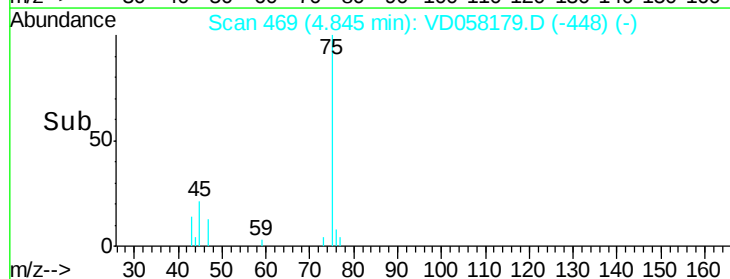
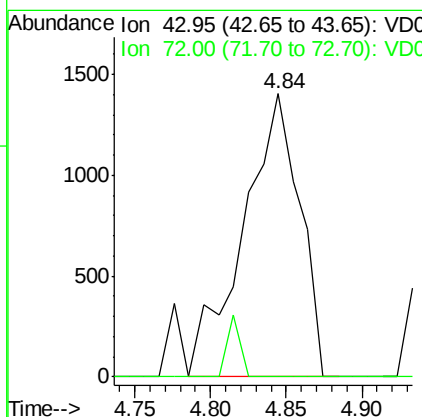
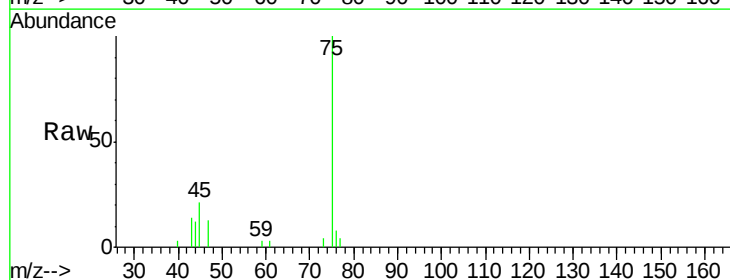
Instrument :
 MSVOA_D
 ClientSampleID :

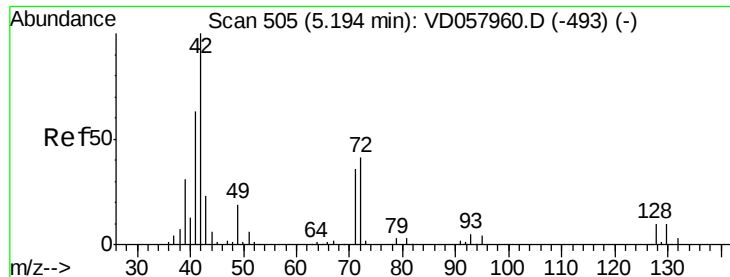
Tot Ion: 43 Resp: 1525
 Ion Ratio Lower Upper
 43 100
 86 0.0 4.7 7.1#



#25
 2-Butanone
 Concen: 17.457 ug/l
 RT: 4.84 min Scan# 469
 Delta R.T. 0.00 min
 Lab File: VD058179.D
 Acq: 18 Jun 2018 14:17

Tgt Ion: 43 Resp: 3653
 Ion Ratio Lower Upper
 43 100
 72 0.0 12.0 18.0#

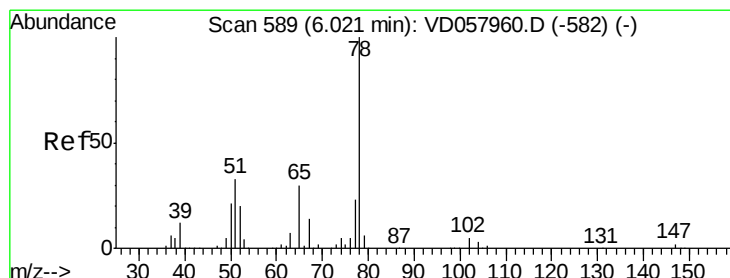
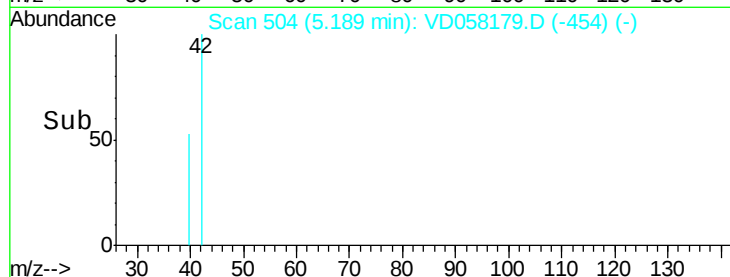
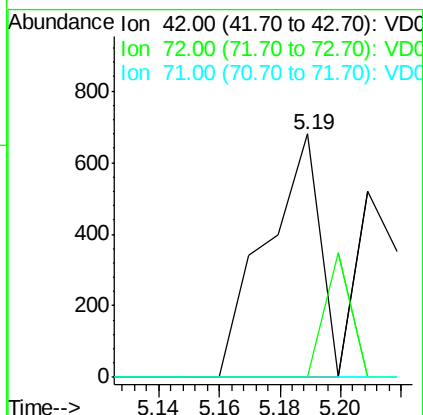
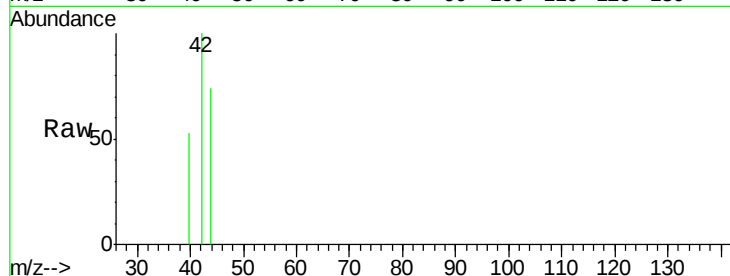




#29
Tetrahydrofuran
Concen: 7.639 ug/l
RT: 5.19 min Scan# 504
Delta R.T. -0.01 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

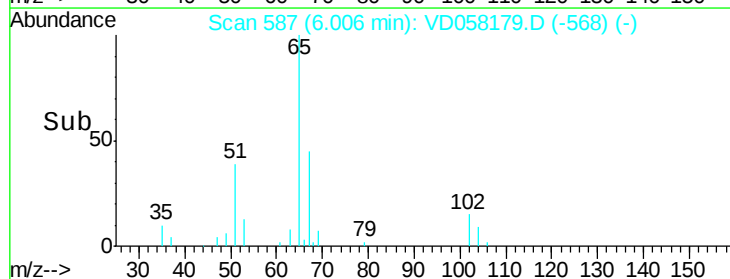
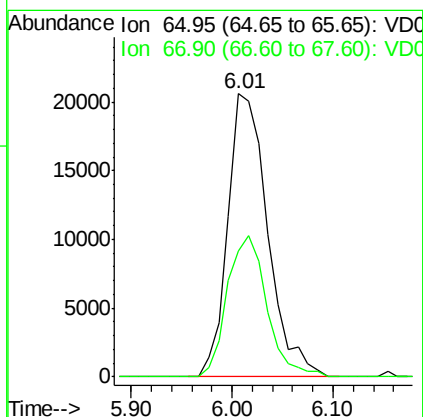
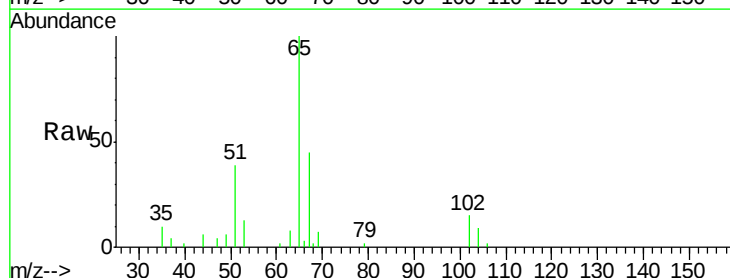
Instrument :
MSVOA_D
ClientSampled :

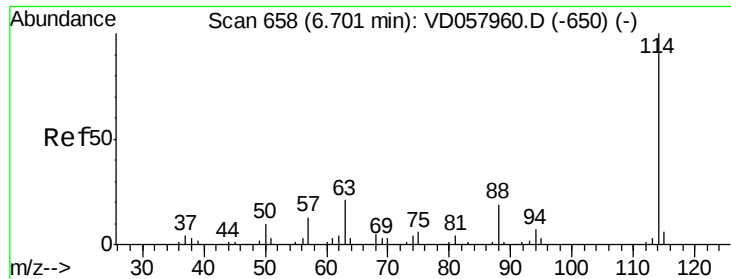
Tot Ion: 42 Resp: 838
Ion Ratio Lower Upper
42 100
72 24.6 28.5 42.7#
71 0.0 27.9 41.9#



#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.01 min Scan# 587
Delta R.T. -0.02 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

Tgt Ion: 65 Resp: 56585
Ion Ratio Lower Upper
65 100
67 44.5 0.0 94.0

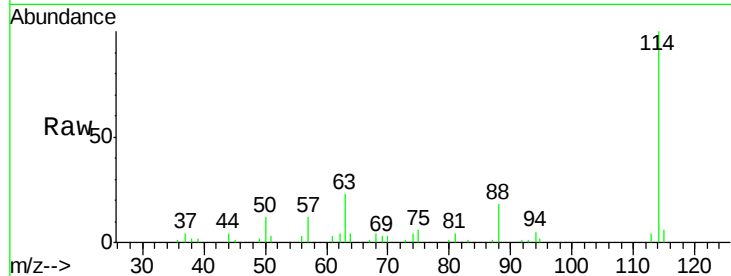




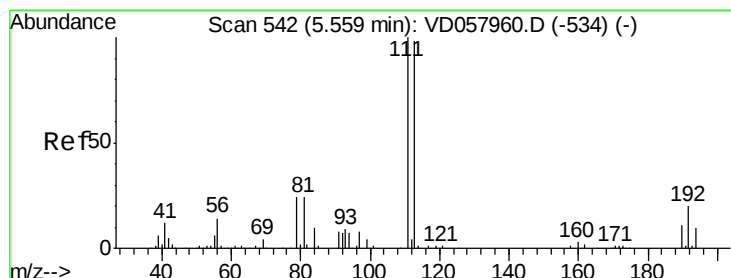
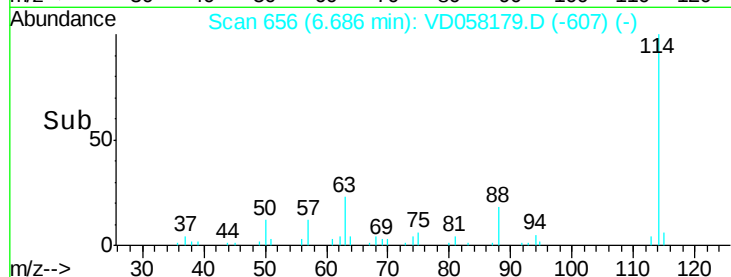
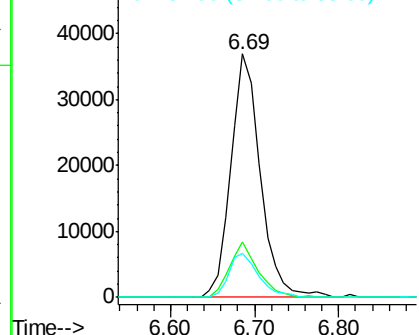
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.69 min Scan# 656
 Delta R.T. -0.02 min
 Lab File: VD058179.D
 Acq: 18 Jun 2018 14:17

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 89736
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 42.8
 88 17.9 0.0 37.8

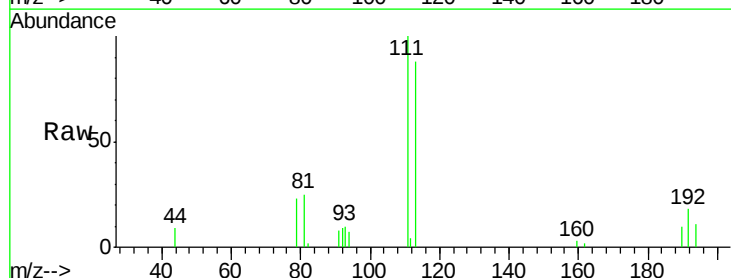


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

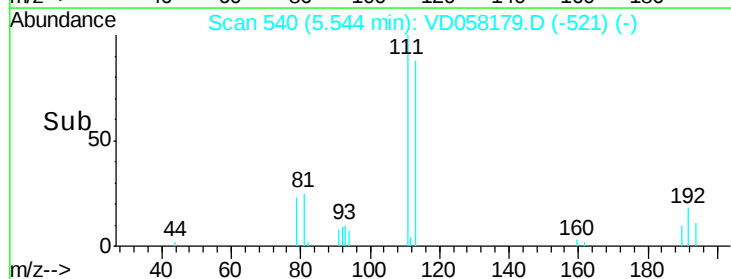
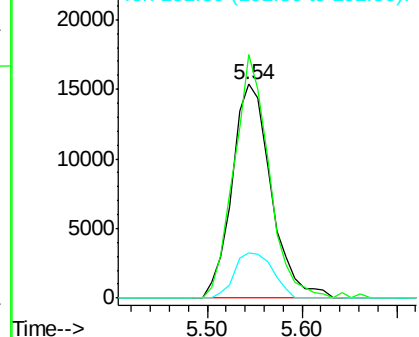


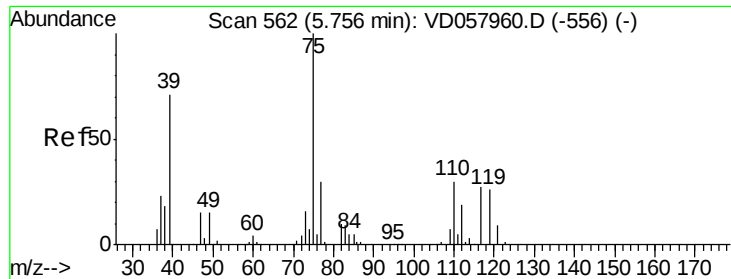
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 5.54 min Scan# 540
 Delta R.T. -0.02 min
 Lab File: VD058179.D
 Acq: 18 Jun 2018 14:17

Tgt Ion:113 Resp: 43850
 Ion Ratio Lower Upper
 113 100
 111 113.7 81.5 122.3
 192 20.8 16.4 24.6



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

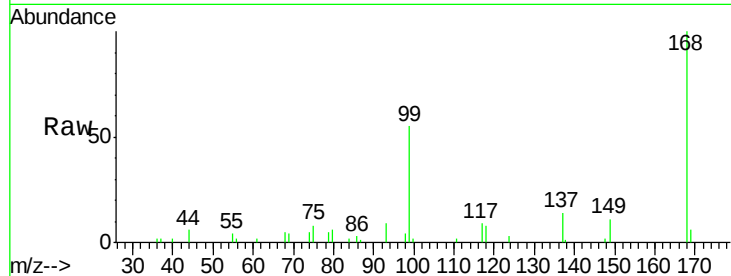




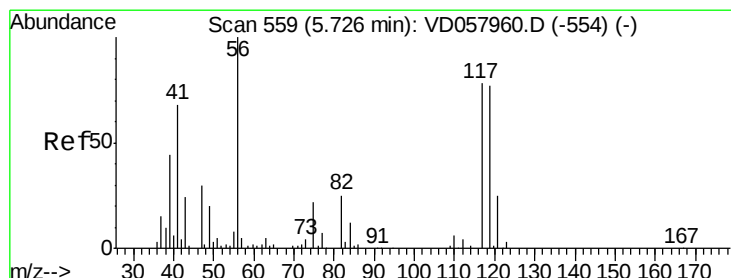
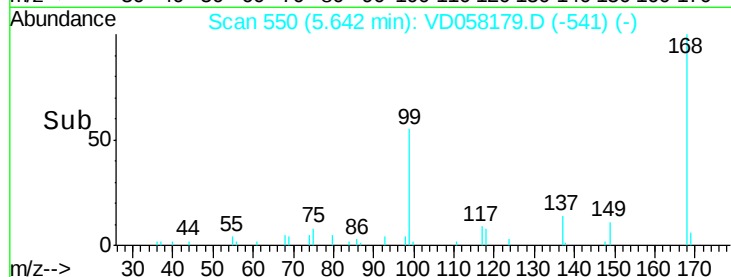
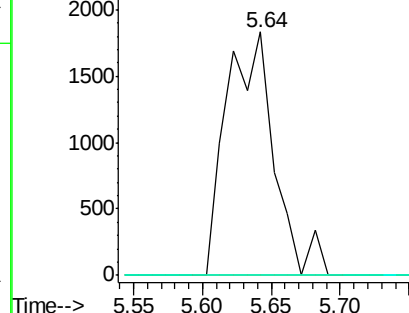
#36
 1,1-Dichloropropene
 Concen: 4.476 ug/l
 RT: 5.64 min Scan# 550
 Delta R.T. -0.11 min
 Lab File: VD058179.D
 Acq: 18 Jun 2018 14:17

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	14.8	44.3#
77	0.0	23.9	35.9#

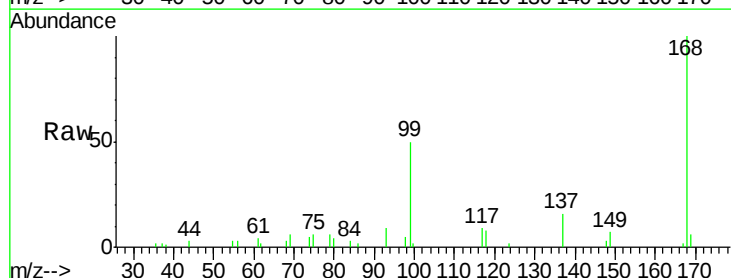


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

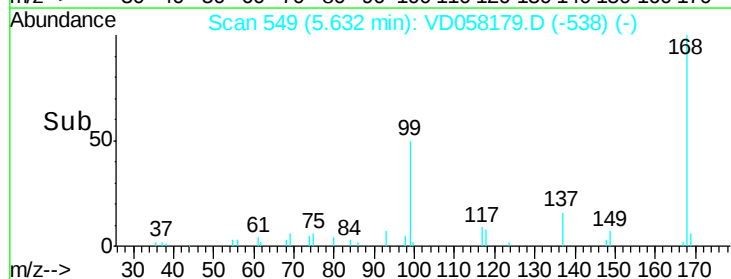
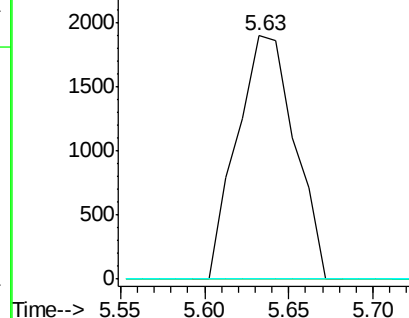


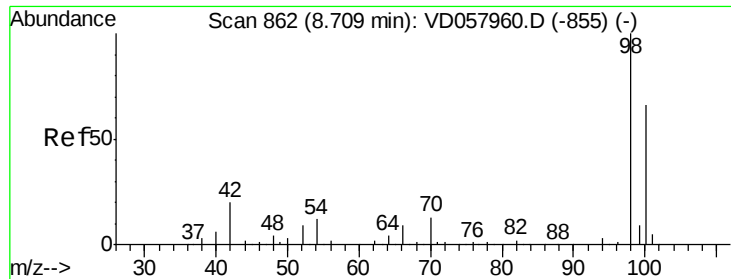
#38
 Carbon Tetrachloride
 Concen: 4.626 ug/l
 RT: 5.63 min Scan# 549
 Delta R.T. -0.09 min
 Lab File: VD058179.D
 Acq: 18 Jun 2018 14:17

Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	76.1	114.1#
121	0.0	24.9	37.3#



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





#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.70 min Scan# 861

Delta R.T. -0.01 min

Lab File: VD058179.D

Acq: 18 Jun 2018 14:17

Instrument :

MSVOA_D

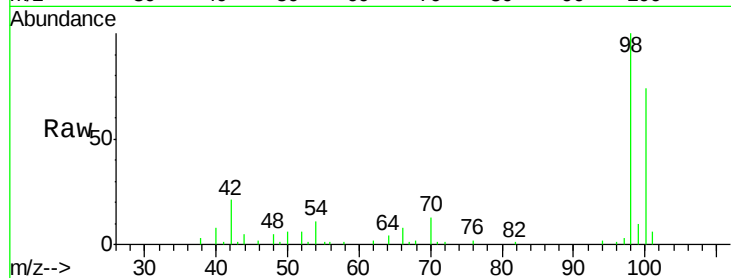
ClientSampleId :

Tot Ion: 98 Resp: 93737

Ion Ratio Lower Upper

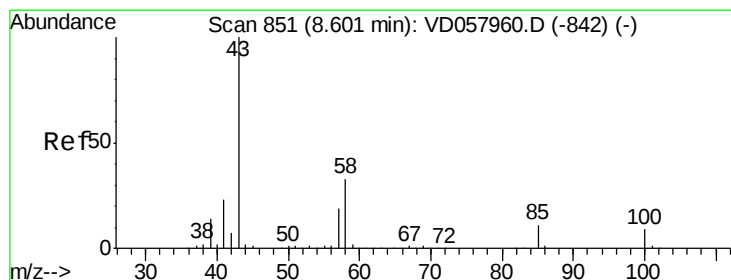
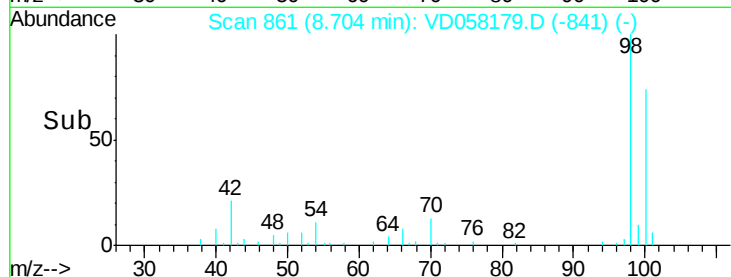
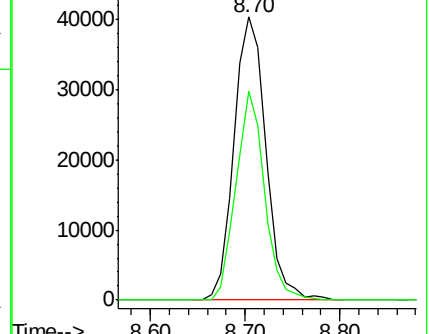
98 100

100 74.0 53.4 80.0



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: 2.626 ug/l

RT: 8.60 min Scan# 850

Delta R.T. -0.01 min

Lab File: VD058179.D

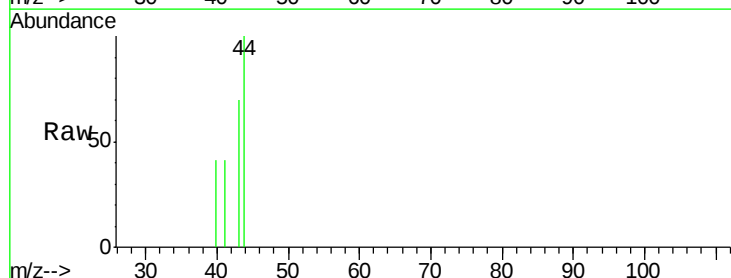
Acq: 18 Jun 2018 14:17

Tgt Ion: 43 Resp: 1190

Ion Ratio Lower Upper

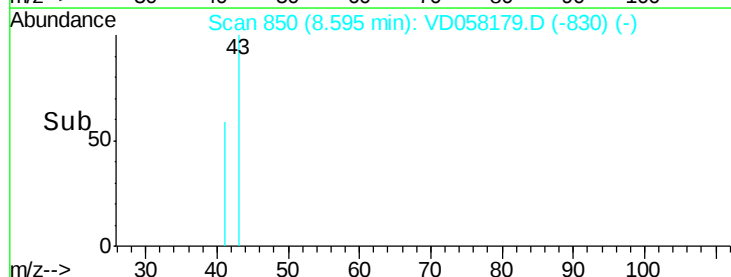
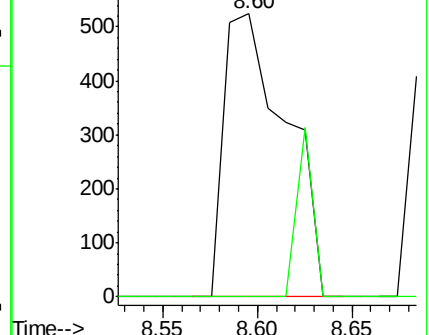
43 100

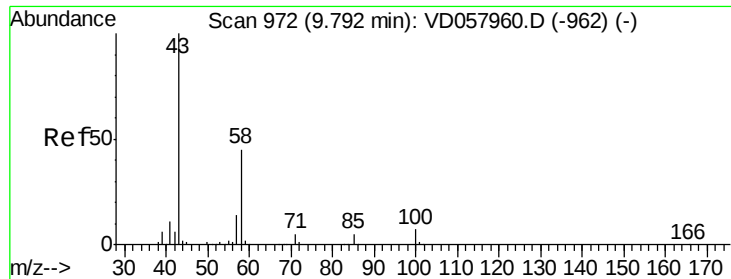
58 0.0 26.2 39.4#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

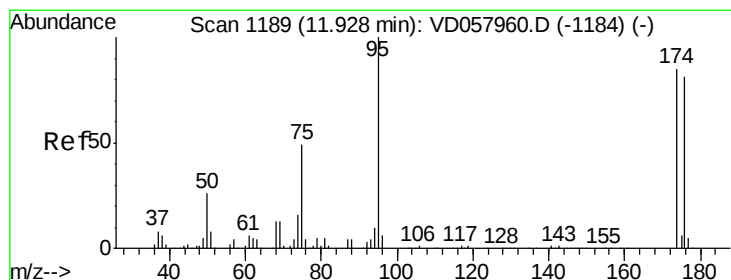
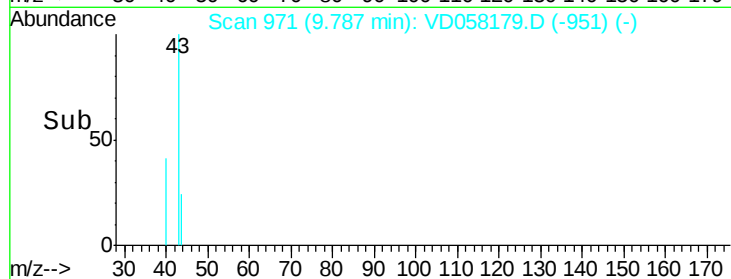
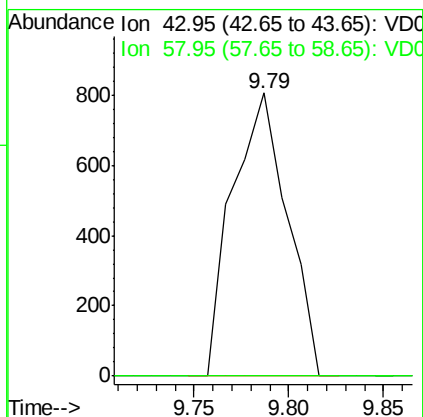
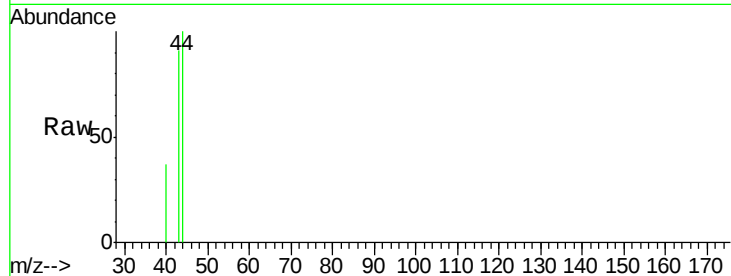




#59
2-Hexanone
Concen: 4.865 ug/l
RT: 9.79 min Scan# 971
Delta R.T. -0.01 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

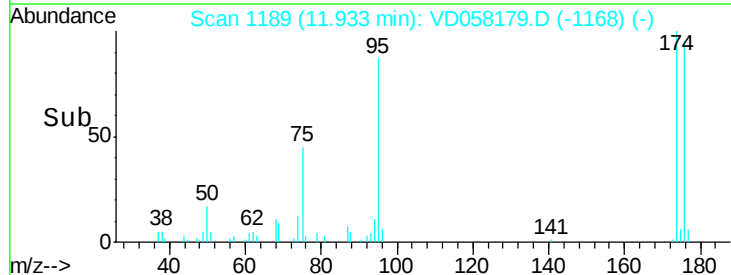
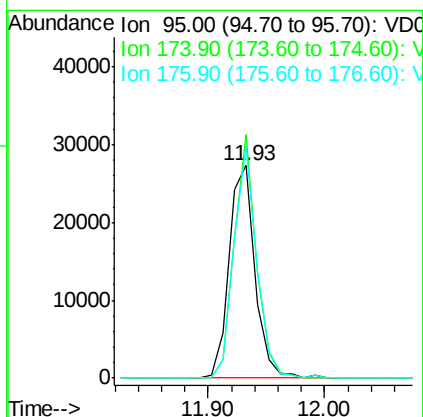
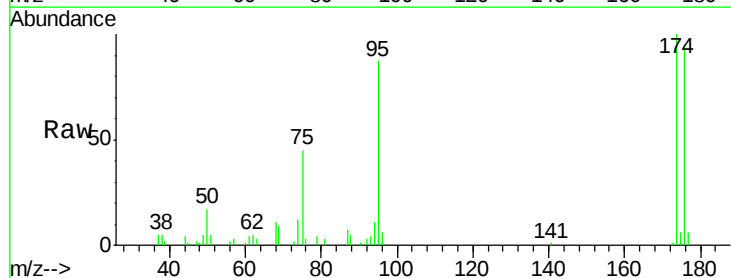
Instrument :
MSVOA_D
ClientSampleId :

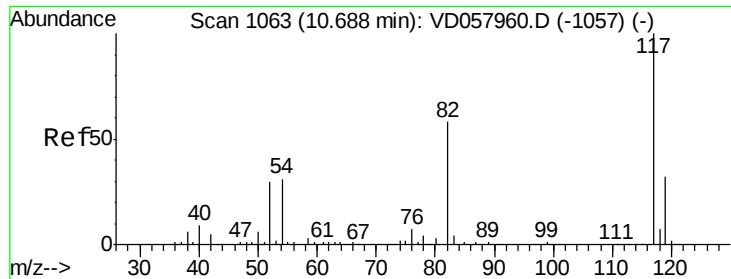
Tot Ion: 43 Resp: 1616
Ion Ratio Lower Upper
43 100
58 0.0 22.5 67.5#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 11.93 min Scan# 1189
Delta R.T. 0.00 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

Tgt Ion: 95 Resp: 41908
Ion Ratio Lower Upper
95 100
174 114.5 0.0 169.4
176 109.0 0.0 162.6

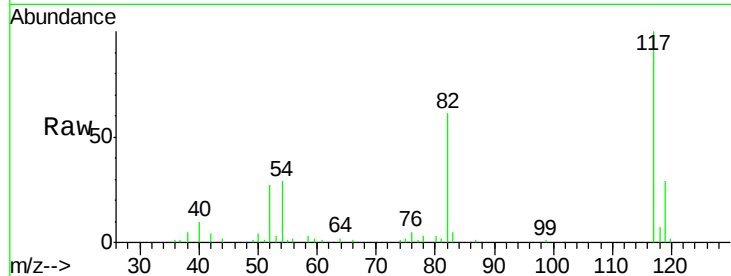




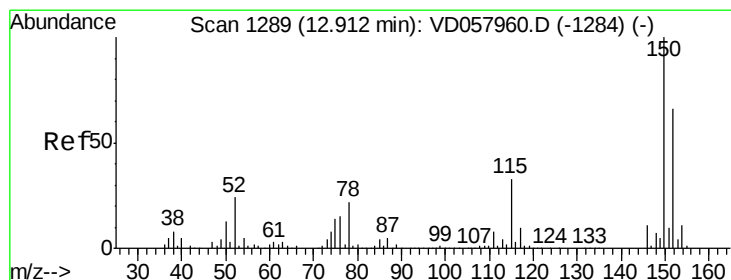
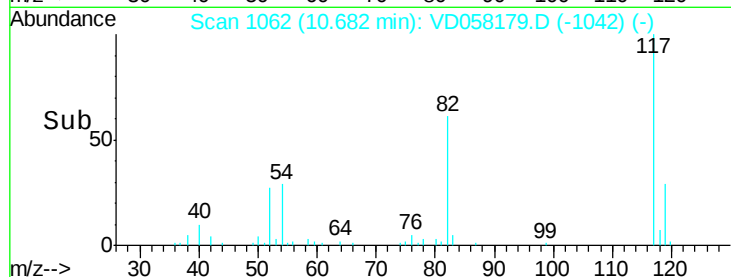
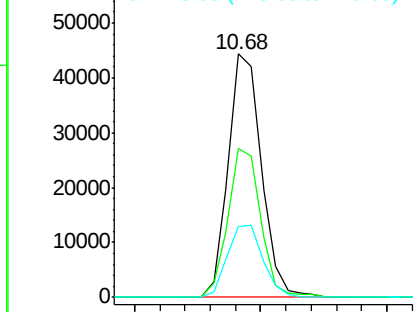
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.68 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 80531
Ion Ratio Lower Upper
117 100
82 60.9 46.8 70.2
119 29.0 25.8 38.6

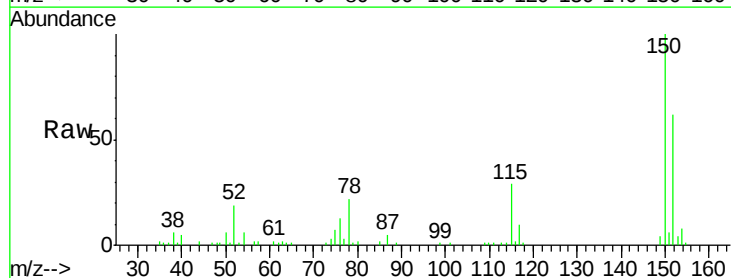


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

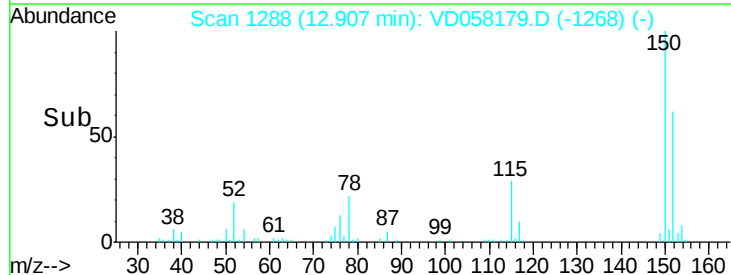
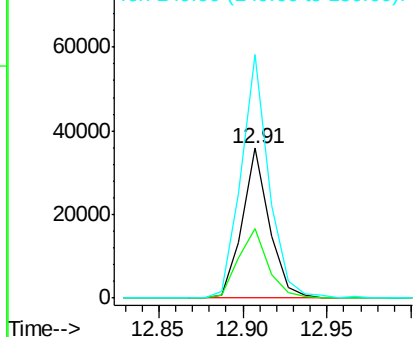


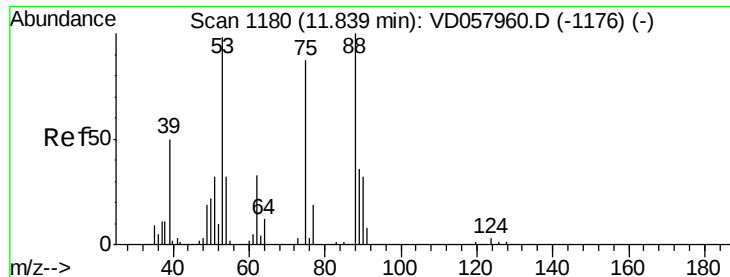
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

Tgt Ion:152 Resp: 39916
Ion Ratio Lower Upper
152 100
115 46.4 25.6 76.6
150 162.3 0.0 306.8



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





#81

trans-1,4-Dichloro-2-butene

Concen: 141.458 ug/l

RT: 11.93 min Scan# 1189

Delta R.T. 0.09 min

Lab File: VD058179.D

Acq: 18 Jun 2018 14:17

Instrument :

MSVOA_D

ClientSampleId :

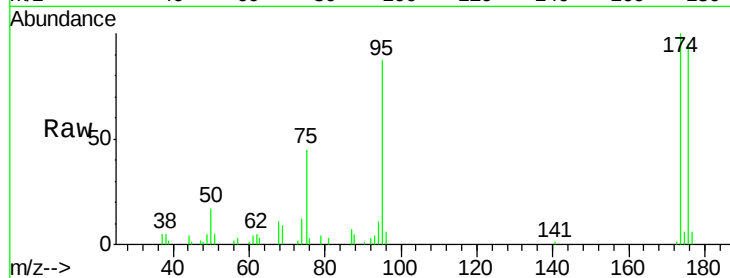
Tot Ion: 75 Resp: 21008

Ion Ratio Lower Upper

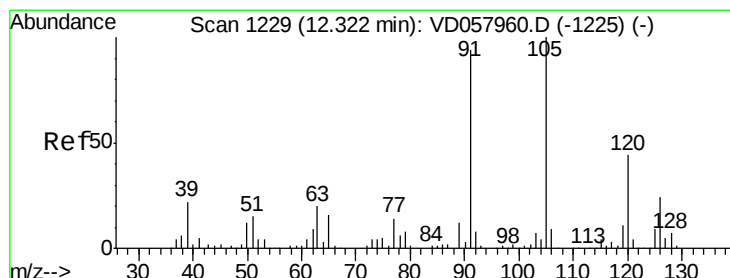
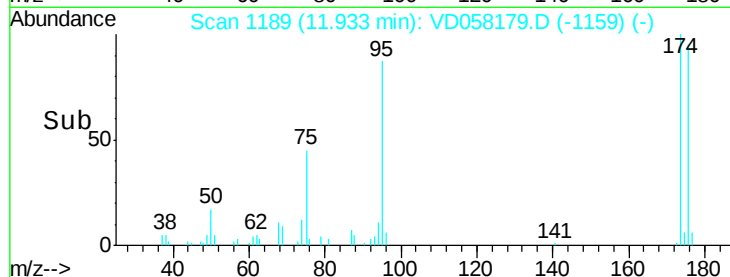
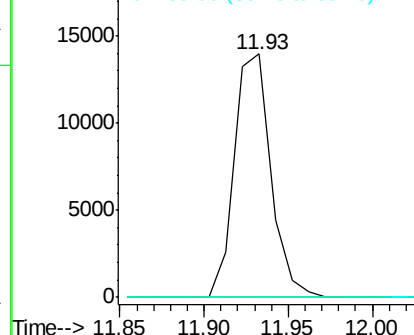
75 100

53 0.0 89.3 133.9#

89 0.0 33.3 49.9#



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



#82

4-Chlorotoluene

Concen: Below Cal

RT: 12.33 min Scan# 1229

Delta R.T. 0.01 min

Lab File: VD058179.D

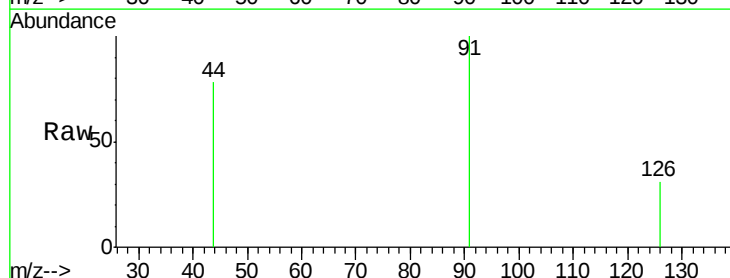
Acq: 18 Jun 2018 14:17

Tgt Ion: 91 Resp: 854

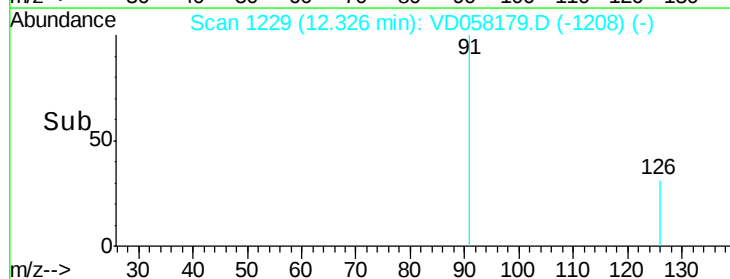
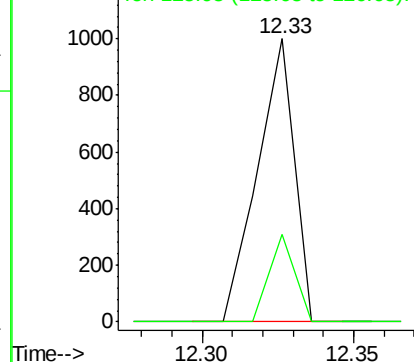
Ion Ratio Lower Upper

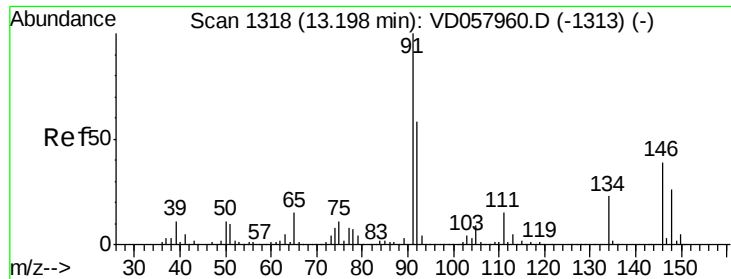
91 100

126 31.0 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V

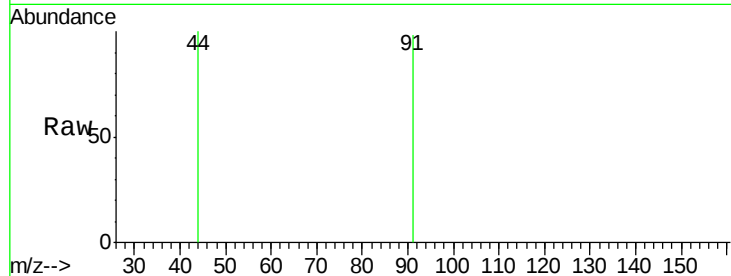




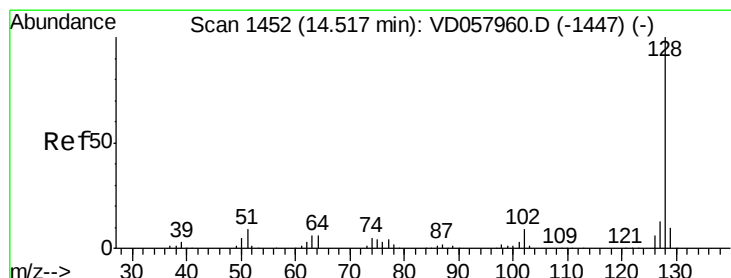
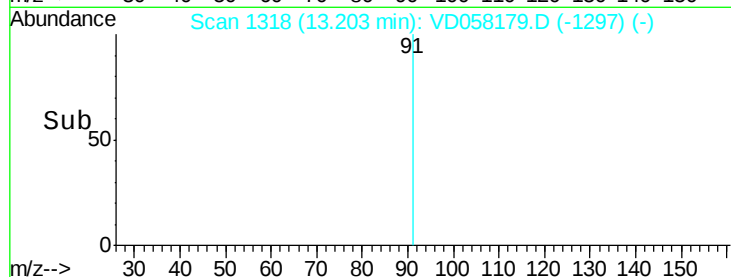
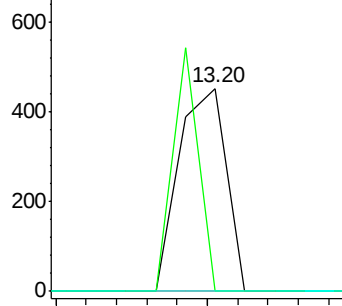
#89
n-Butylbenzene
Concen: Below Cal
RT: 13.20 min Scan# 1318
Delta R.T. 0.01 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 91 Resp: 496
Ion Ratio Lower Upper
91 100
92 0.0 29.2 87.6#
134 0.0 11.3 33.9#

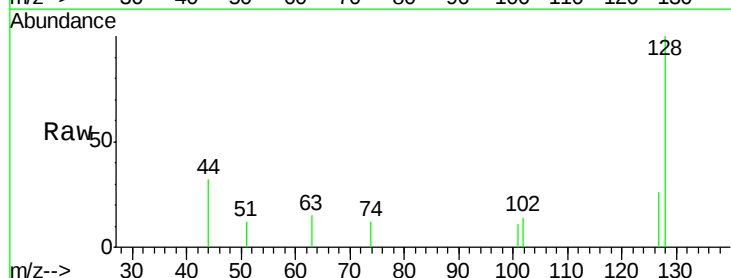


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 92.00 (91.70 to 92.70): VDC
Ion 134.10 (133.80 to 134.80): V

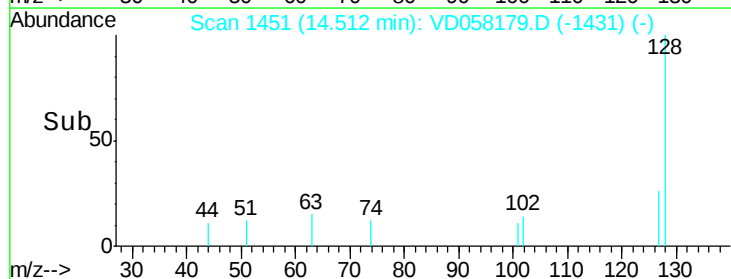
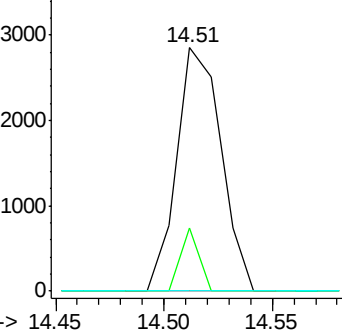


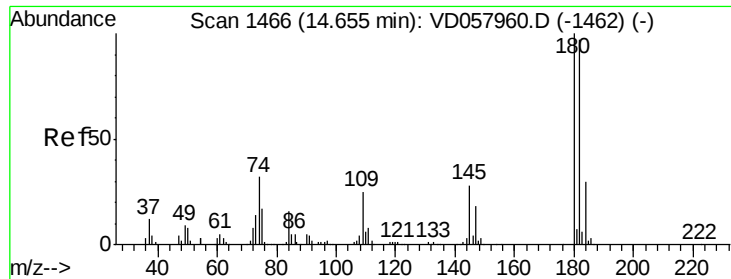
#95
Naphthalene
Concen: 3.157 ug/l
RT: 14.51 min Scan# 1451
Delta R.T. -0.01 min
Lab File: VD058179.D
Acq: 18 Jun 2018 14:17

Tgt Ion: 128 Resp: 4068
Ion Ratio Lower Upper
128 100
127 26.0 10.2 15.2#
129 0.0 8.2 12.2#



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

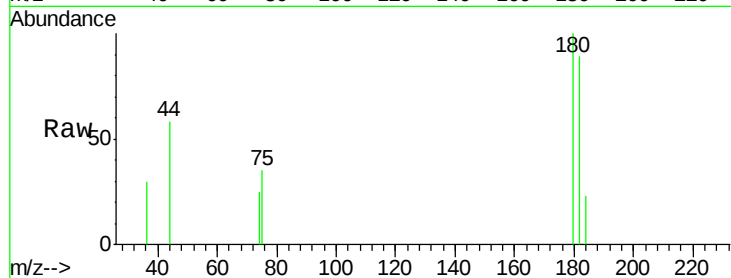




#96
 1,2,3-Trichlorobenzene
 Concen: 2.174 ug/l
 RT: 14.66 min Scan# 1466
 Delta R.T. 0.00 min
 Lab File: VD058179.D
 Acq: 18 Jun 2018 14:17

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 1852
 Ion Ratio Lower Upper
 180 100
 182 89.5 48.5 145.5
 145 0.0 14.2 42.8#



Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

