

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122618\
 Data File : VD060713.D
 Acq On : 26 Dec 2018 12:39
 Operator : VA/AP
 Sample : J6520-01
 Misc : 6.08g/5ml/MSVOA_D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 ROLLOFF-165

Quant Time: Dec 27 01:49:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122018S.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 21 17:37:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.39	168	36531	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	7.41	114	49788	50.00	ug/l	-0.03
63) Chlorobenzene-d5	11.26	117	39769	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	13.36	152	14969	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.76	65	21758	86.19	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	172.38%	
35) Dibromofluoromethane	6.30	113	19712	54.09	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	108.18%	
50) Toluene-d8	9.43	98	40702	37.43	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	74.86%	
62) 4-Bromofluorobenzene	12.41	95	12726	33.42	ug/l	0.00
Spiked Amount 50.000			Recovery	=	66.84%	

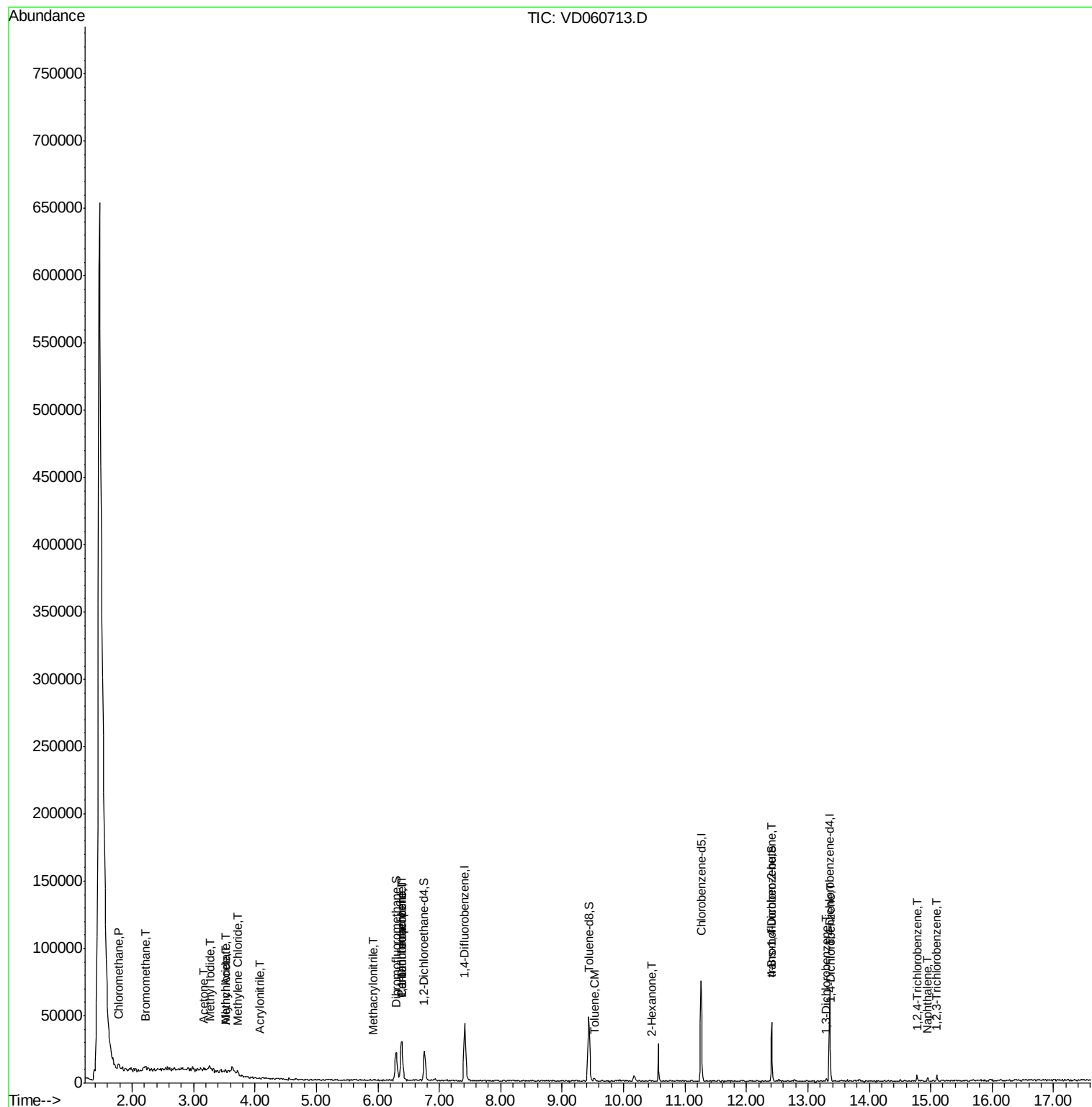
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.78	50	3511	8.173	ug/l	92
5) Bromomethane	2.22	94	4571	59.831	ug/l #	58
10) Methyl Iodide	3.27	142	2480	9.590	ug/l #	73
14) Allyl chloride	3.52	41	1382	3.725	ug/l #	74
15) Acrylonitrile	4.08	53	424	6.922	ug/l #	16
16) Acetone	3.15	43	1462	33.161	ug/l #	53
18) Methyl Acetate	3.52	43	2066	18.908	ug/l #	63
20) Methylene Chloride	3.72	84	1784	3.896	ug/l #	81
36) 1,1-Dichloropropene	6.38	75	2015	3.930	ug/l #	40
38) Carbon Tetrachloride	6.39	117	2049	4.530	ug/l #	12
41) Methacrylonitrile	5.93	41	187	1.577	ug/l #	36
52) Toluene	9.51	92	969	1.167	ug/l #	69
59) 2-Hexanone	10.48	43	196	1.661	ug/l #	30
81) trans-1,4-Dichloro-2-buten	12.41	75	5255	111.592	ug/l #	13
87) 1,3-Dichlorobenzene	13.30	146	766	1.483	ug/l	78
88) 1,4-Dichlorobenzene	13.38	146	1025	2.014	ug/l	83
93) 1,2,4-Trichlorobenzene	14.78	180	1724	5.229	ug/l	93
95) Naphthalene	14.95	128	2035	5.193	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.10	180	1660	6.441	ug/l	66

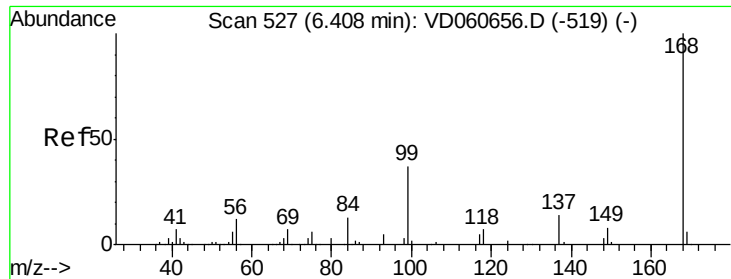
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 21 17:37:47 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.39 min Scan# 525

Delta R.T. -0.02 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

Instrument :

MSVOA_D

ClientSampleId :

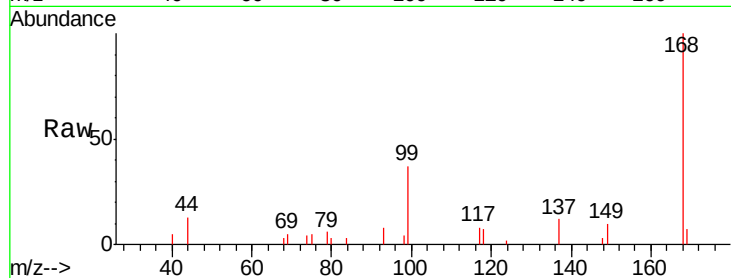
ROLLOFF-165

Tgt Ion:168 Resp: 36531

Ion Ratio Lower Upper

168 100

99 36.7 38.7 58.1#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

6.39

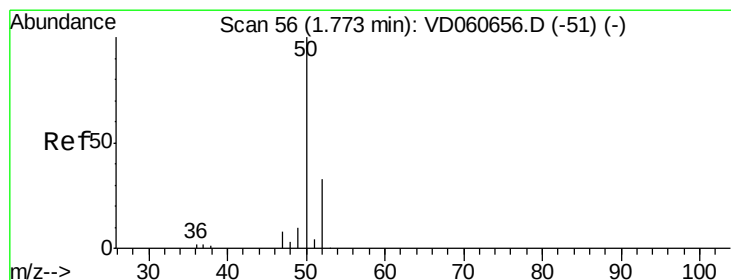
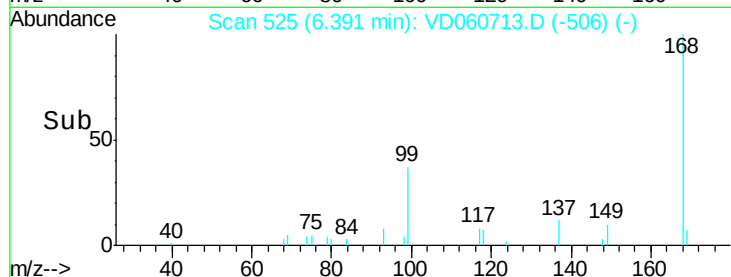
15000

10000

5000

0

Time-->



#3

Chloromethane

Concen: 8.173 ug/l

RT: 1.78 min Scan# 56

Delta R.T. 0.00 min

Lab File: VD060713.D

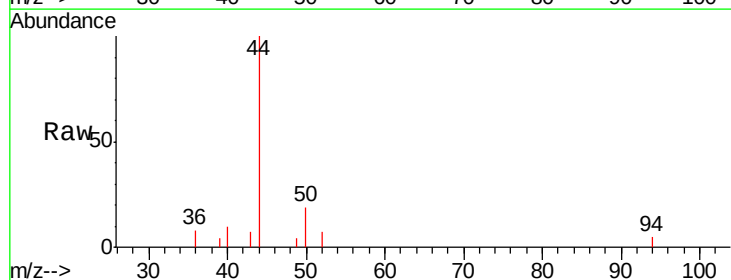
Acq: 26 Dec 2018 12:39

Tgt Ion: 50 Resp: 3511

Ion Ratio Lower Upper

50 100

52 37.5 26.6 39.8



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

1.78

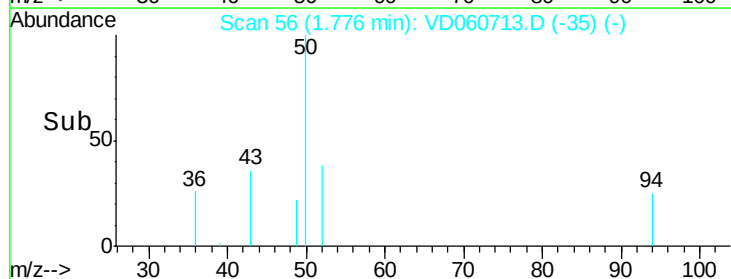
1500

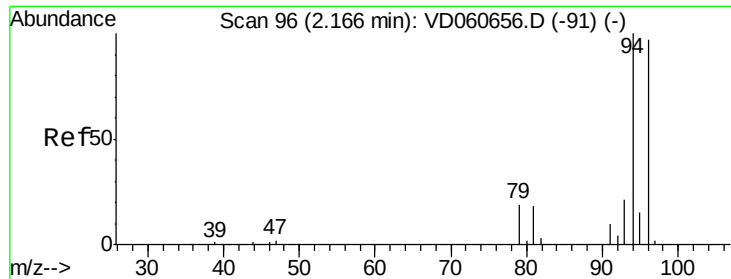
1000

500

0

Time-->





#5

Bromomethane

Concen: 59.831 ug/l

RT: 2.22 min Scan# 101

Delta R.T. 0.05 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

Instrument :

MSVOA_D

ClientSampleId :

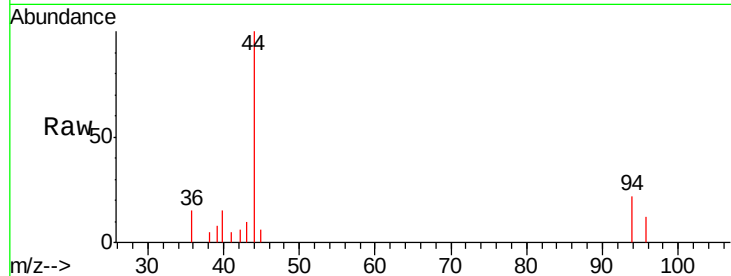
ROLLOFF-165

Tgt Ion: 94 Resp: 4571

Ion Ratio Lower Upper

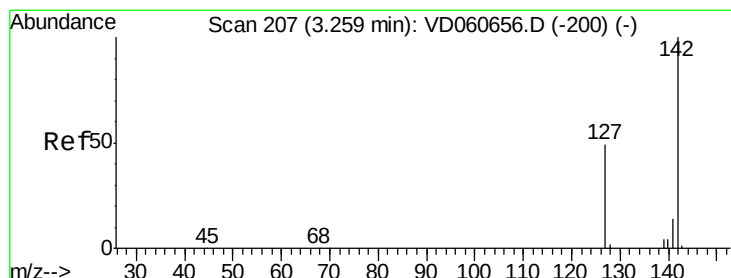
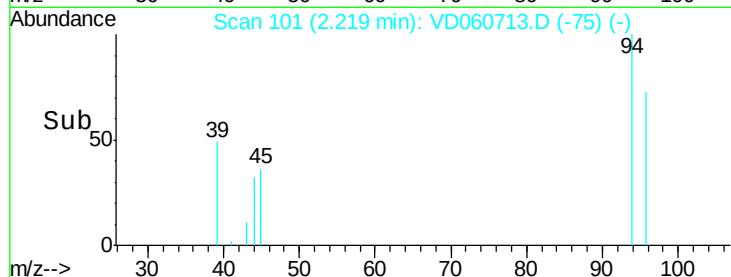
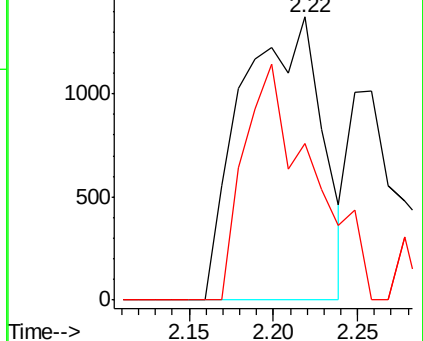
94 100

96 55.4 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 9.590 ug/l

RT: 3.27 min Scan# 208

Delta R.T. 0.01 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

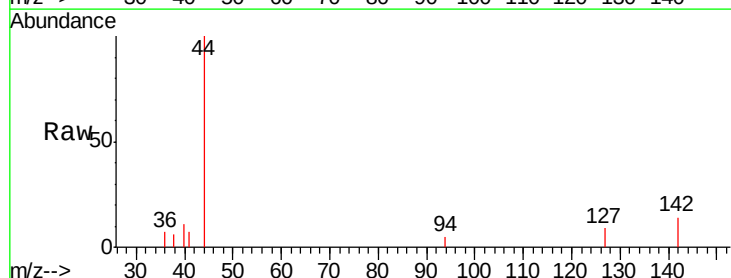
Tgt Ion: 142 Resp: 2480

Ion Ratio Lower Upper

142 100

127 66.1 39.5 59.3#

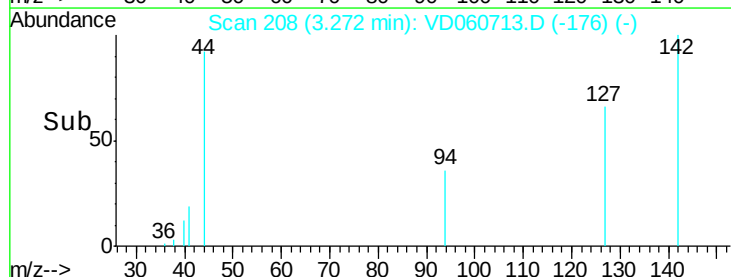
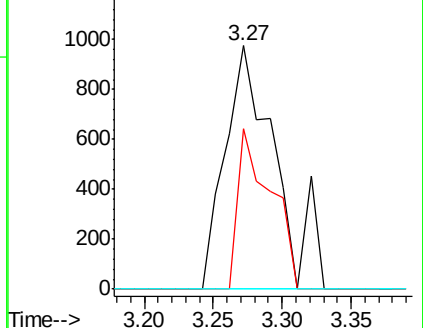
141 0.0 11.3 16.9#

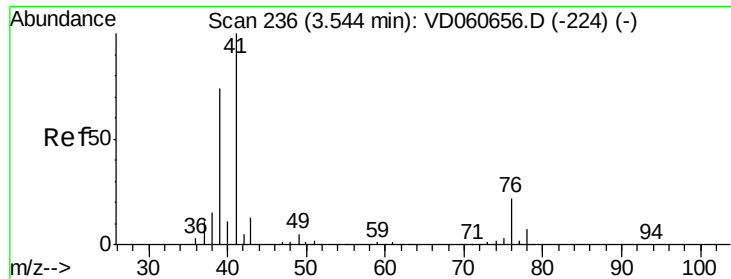


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

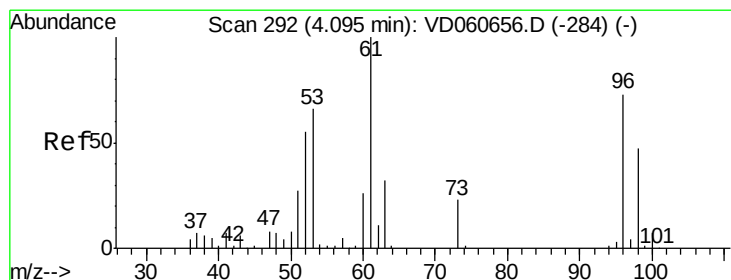
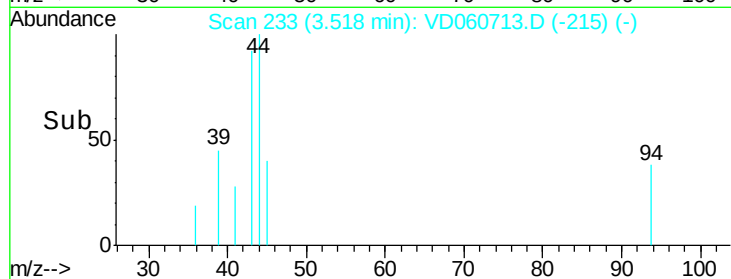
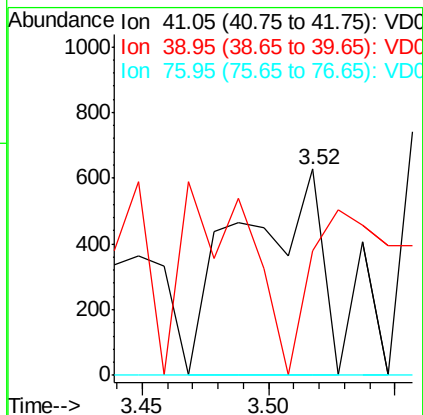
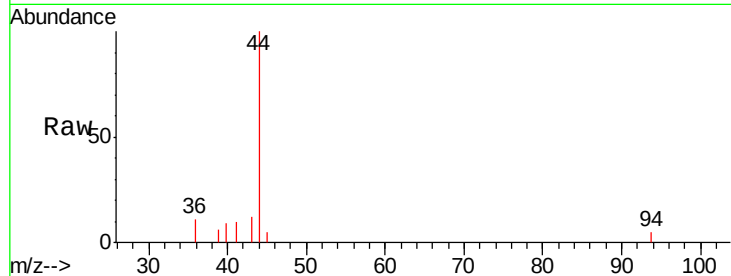




#14
 Allyl chloride
 Concen: 3.725 ug/l
 RT: 3.52 min Scan# 233
 Delta R.T. -0.03 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

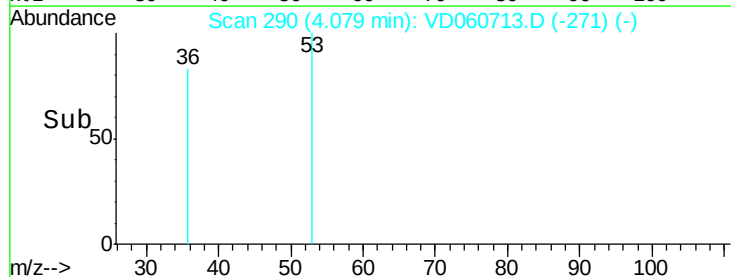
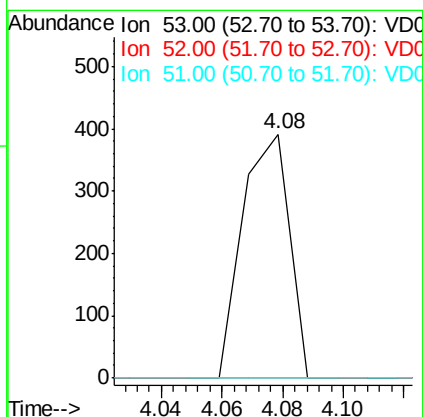
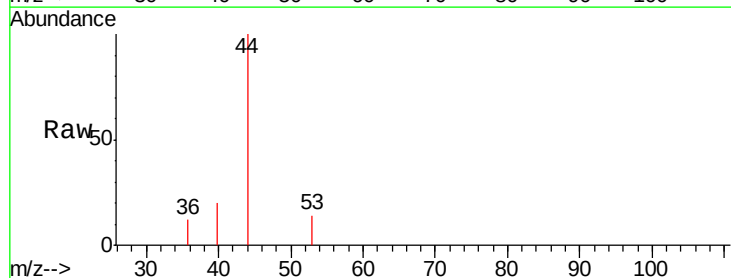
Instrument :
 MSVOA_D
 ClientSampleId :
 ROLLOFF-165

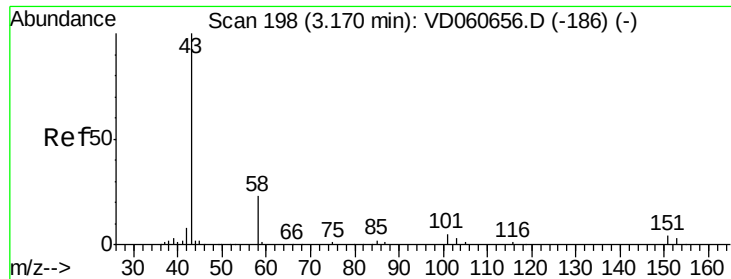
Tgt Ion: 41 Resp: 1382
 Ion Ratio Lower Upper
 41 100
 39 60.8 59.6 89.4
 76 0.0 21.8 32.6#



#15
 Acrylonitrile
 Concen: 6.922 ug/l
 RT: 4.08 min Scan# 290
 Delta R.T. -0.02 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

Tgt Ion: 53 Resp: 424
 Ion Ratio Lower Upper
 53 100
 52 0.0 66.7 100.1#
 51 0.0 32.7 49.1#





#16

Acetone

Concen: 33.161 ug/l

RT: 3.15 min Scan# 196

Delta R.T. -0.02 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

Instrument :

MSVOA_D

ClientSampleId :

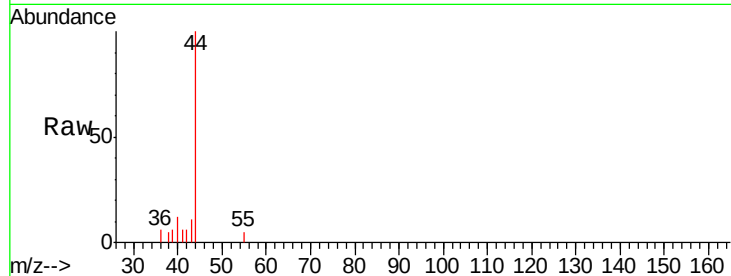
ROLLOFF-165

Tgt Ion: 43 Resp: 1462

Ion Ratio Lower Upper

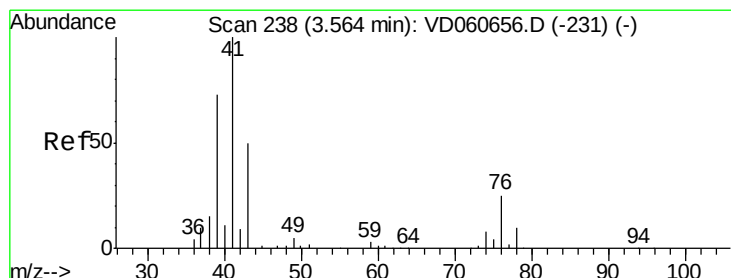
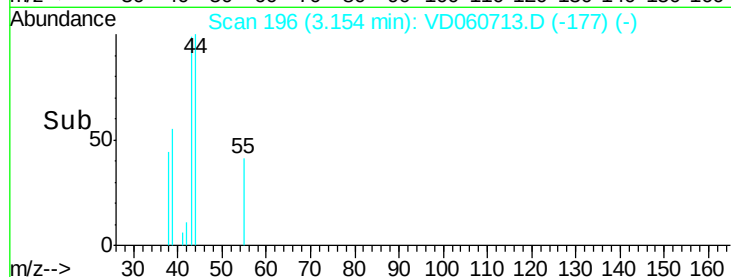
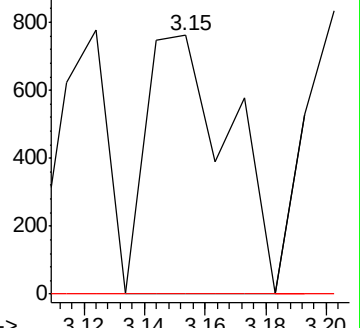
43 100

58 0.0 18.2 27.2#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#18

Methyl Acetate

Concen: 18.908 ug/l

RT: 3.52 min Scan# 233

Delta R.T. -0.05 min

Lab File: VD060713.D

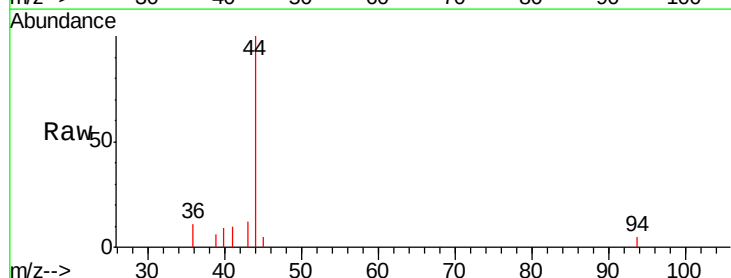
Acq: 26 Dec 2018 12:39

Tgt Ion: 43 Resp: 2066

Ion Ratio Lower Upper

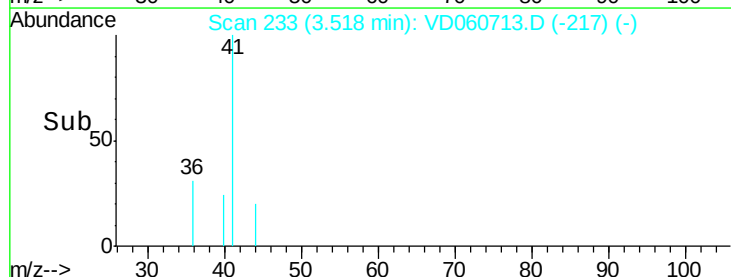
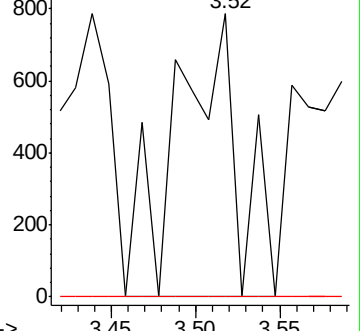
43 100

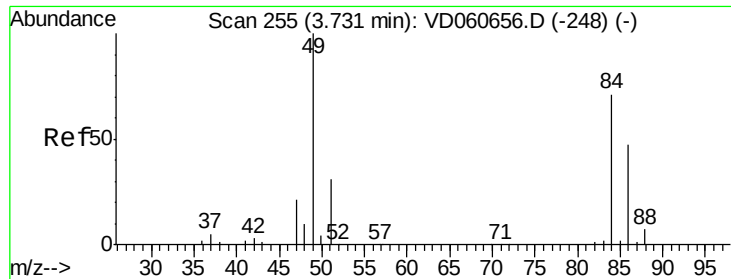
74 0.0 12.4 18.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

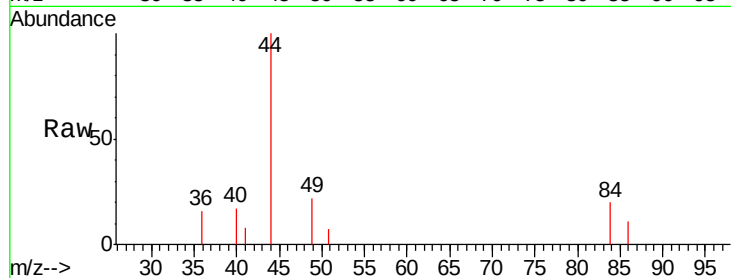




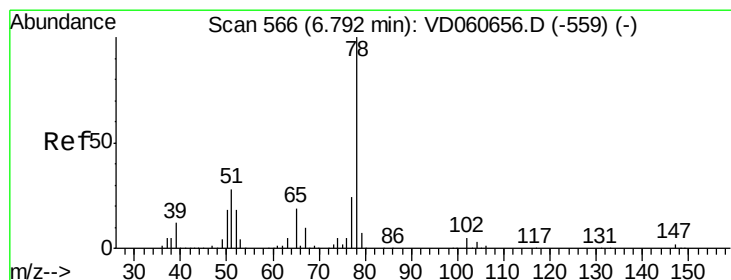
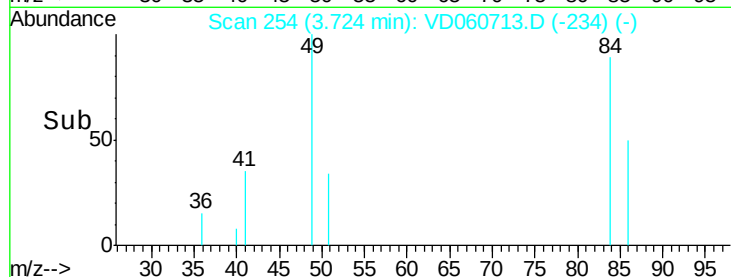
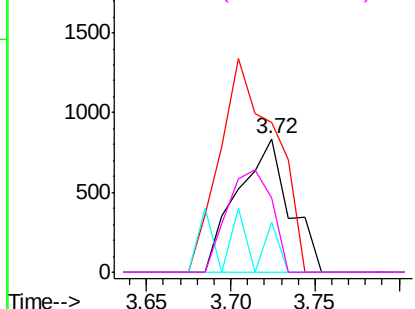
#20
Methylene Chloride
Concen: 3.896 ug/l
RT: 3.72 min Scan# 254
Delta R.T. -0.01 min
Lab File: VD060713.D
Acq: 26 Dec 2018 12:39

Instrument :
MSVOA_D
ClientSampleId :
ROLLOFF-165

Tgt Ion: 84 Resp: 1784
Ion Ratio Lower Upper
84 100
49 112.0 113.6 170.4#
51 37.6 34.7 52.1
86 55.4 52.8 79.2

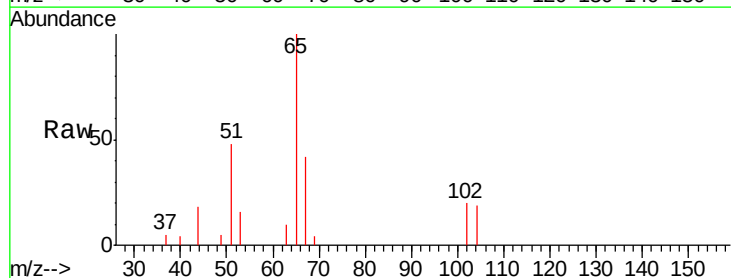


Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

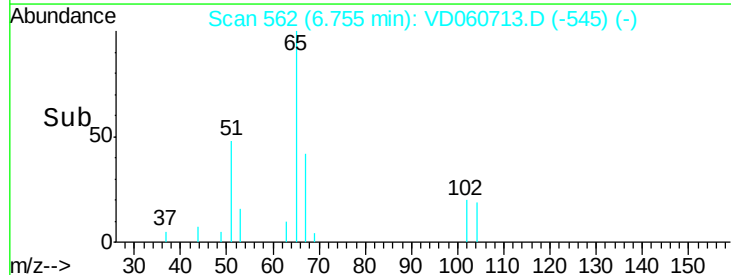
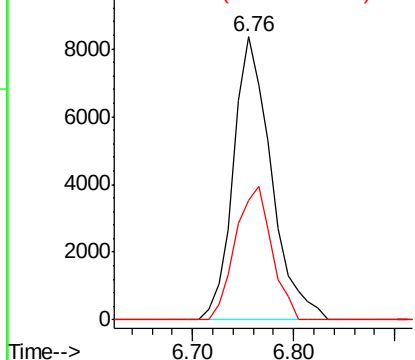


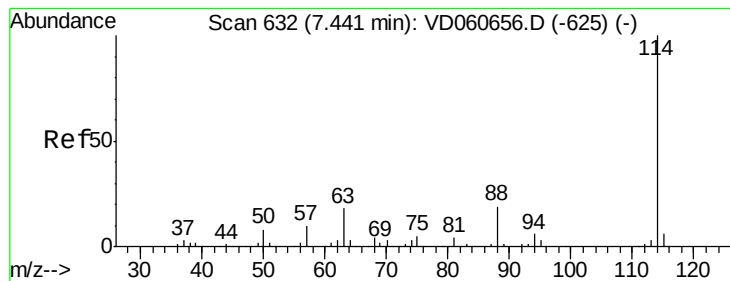
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 6.76 min Scan# 562
Delta R.T. -0.04 min
Lab File: VD060713.D
Acq: 26 Dec 2018 12:39

Tgt Ion: 65 Resp: 21758
Ion Ratio Lower Upper
65 100
67 42.3 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: 7.41 min Scan# 629

Delta R.T. -0.03 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

Instrument :

MSVOA_D

ClientSampleId :

ROLLOFF-165

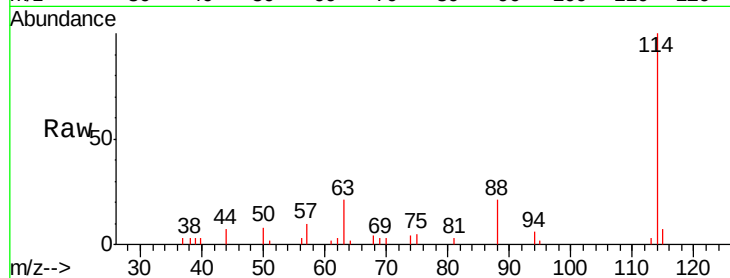
Tgt Ion:114 Resp: 49788

Ion Ratio Lower Upper

114 100

63 20.9 0.0 36.2

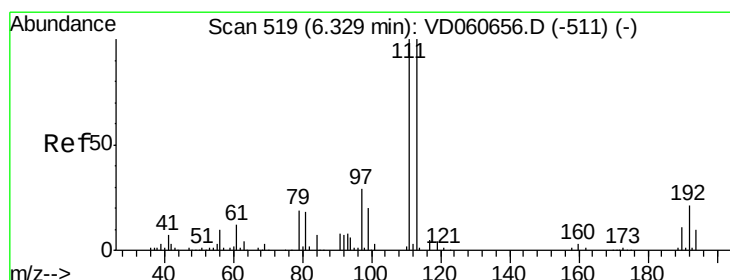
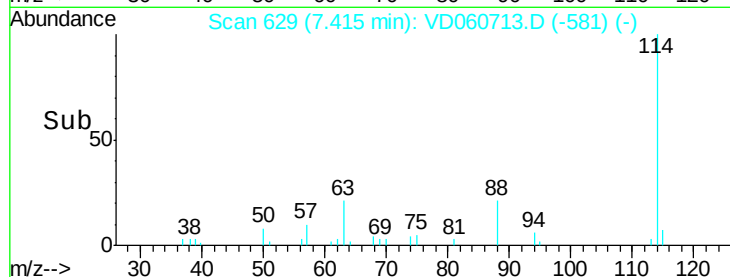
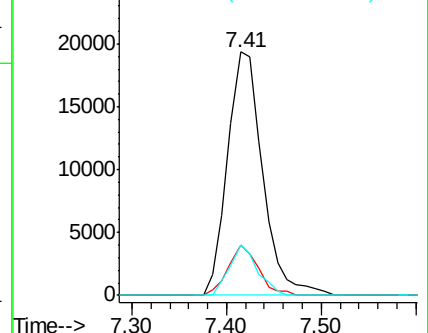
88 20.9 0.0 37.0



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



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.30 min Scan# 516

Delta R.T. -0.03 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

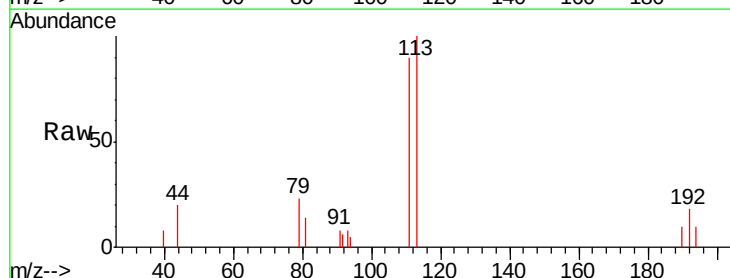
Tgt Ion:113 Resp: 19712

Ion Ratio Lower Upper

113 100

111 89.5 80.0 120.0

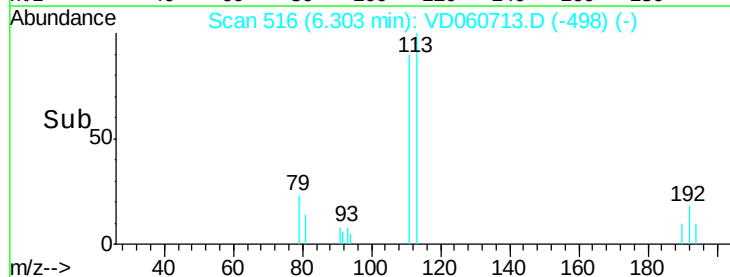
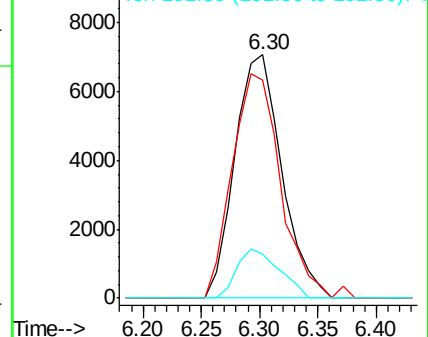
192 18.2 16.6 25.0

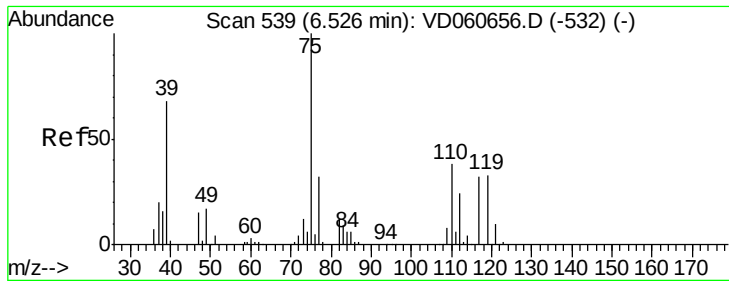


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

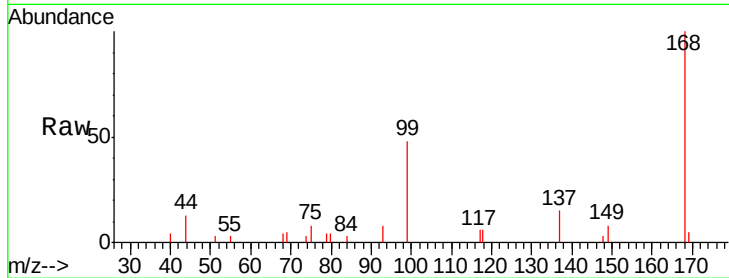




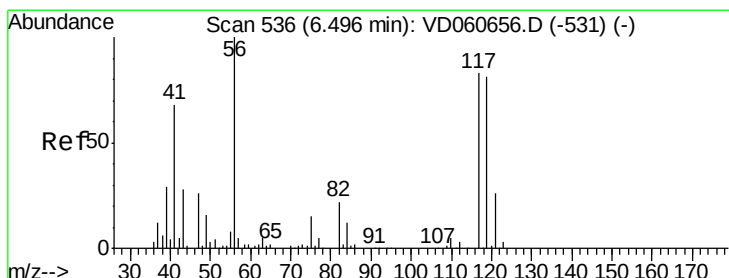
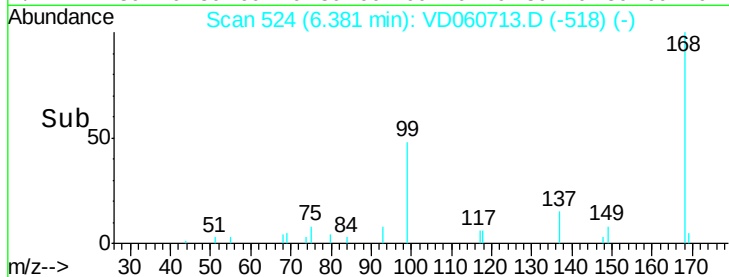
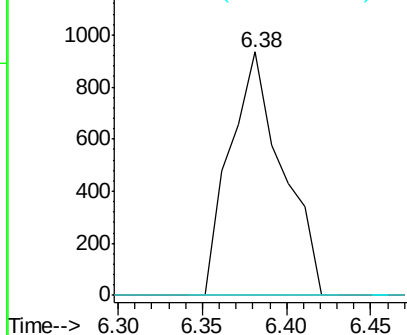
#36
 1,1-Dichloropropene
 Concen: 3.930 ug/l
 RT: 6.38 min Scan# 524
 Delta R.T. -0.14 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

Instrument :
 MSVOA_D
 ClientSampleId :
 ROLLOFF-165

Tgt Ion: 75 Resp: 2015
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.9 56.7#
 77 0.0 25.4 38.0#

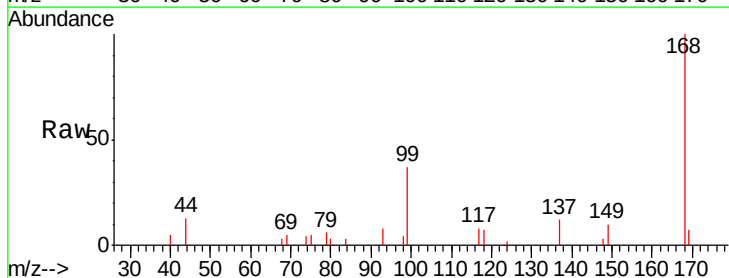


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 109.90 (109.60 to 110.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC

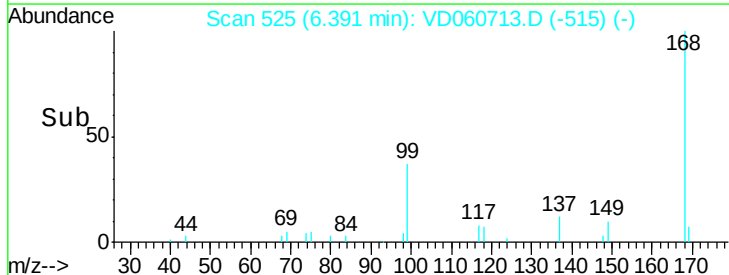
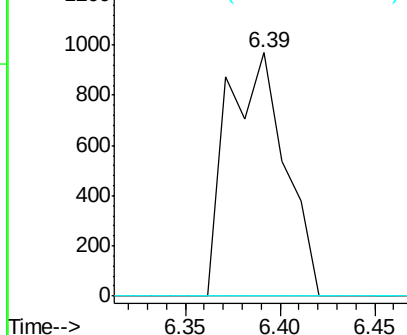


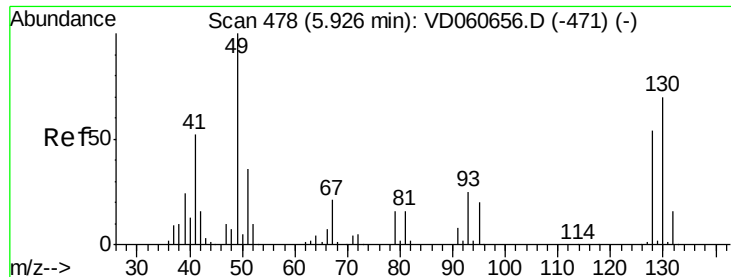
#38
 Carbon Tetrachloride
 Concen: 4.530 ug/l
 RT: 6.39 min Scan# 525
 Delta R.T. -0.11 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

Tgt Ion: 117 Resp: 2049
 Ion Ratio Lower Upper
 117 100
 119 0.0 77.0 115.4#
 121 0.0 24.7 37.1#



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

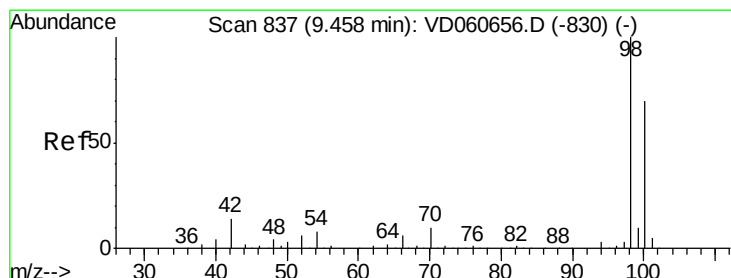
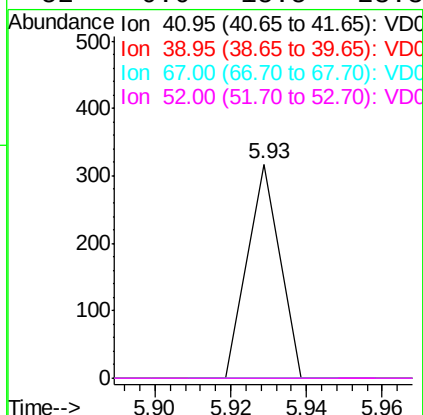
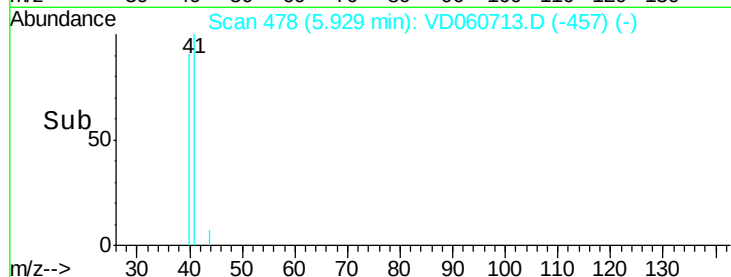
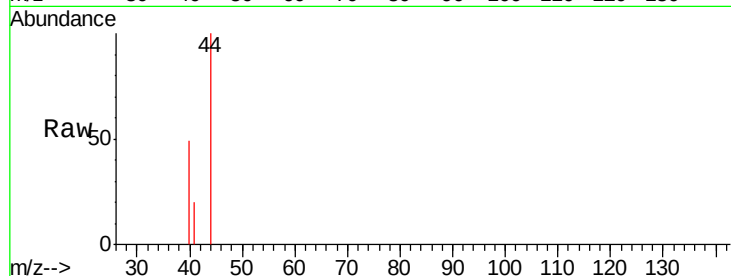




#41
Methacrylonitrile
Concen: 1.577 ug/l
RT: 5.93 min Scan# 478
Delta R.T. 0.00 min
Lab File: VD060713.D
Acq: 26 Dec 2018 12:39

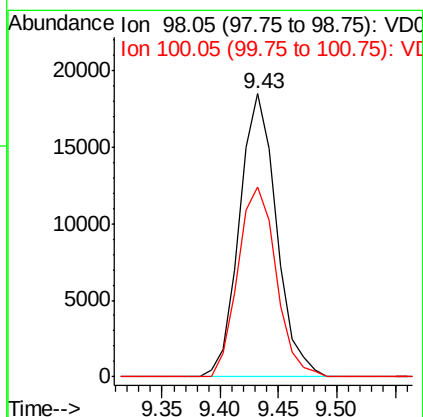
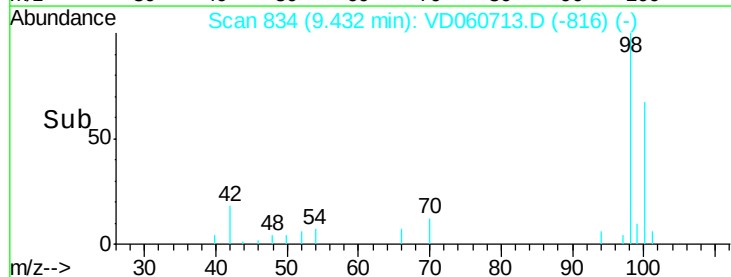
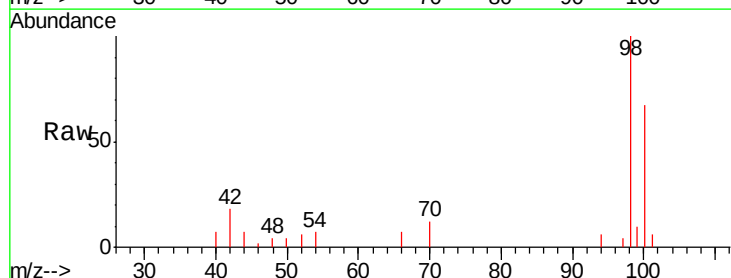
Instrument :
MSVOA_D
ClientSampleId :
ROLLOFF-165

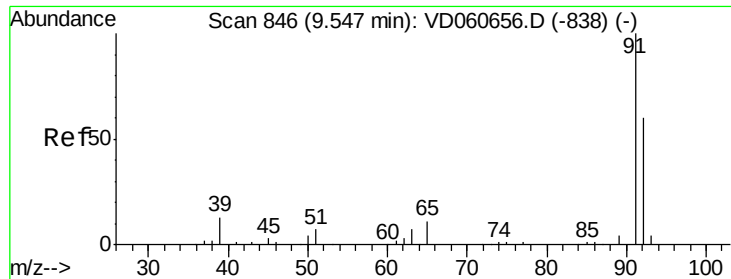
Tgt Ion: 41 Resp: 187
Ion Ratio Lower Upper
41 100
39 0.0 37.6 56.4#
67 0.0 33.0 49.6#
52 0.0 15.5 23.3#



#50
Toluene-d8
Concen: N.D. ug/l
RT: 9.43 min Scan# 834
Delta R.T. -0.03 min
Lab File: VD060713.D
Acq: 26 Dec 2018 12:39

Tgt Ion: 98 Resp: 40702
Ion Ratio Lower Upper
98 100
100 67.1 55.8 83.8





#52

Toluene

Concen: 1.167 ug/l

RT: 9.51 min Scan# 842

Delta R.T. -0.04 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

Instrument :

MSVOA_D

ClientSampleId :

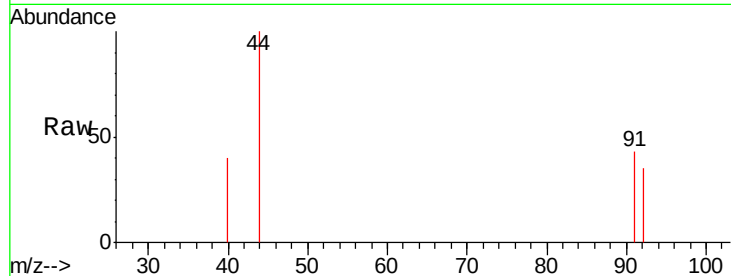
ROLLOFF-165

Tgt Ion: 92 Resp: 969

Ion Ratio Lower Upper

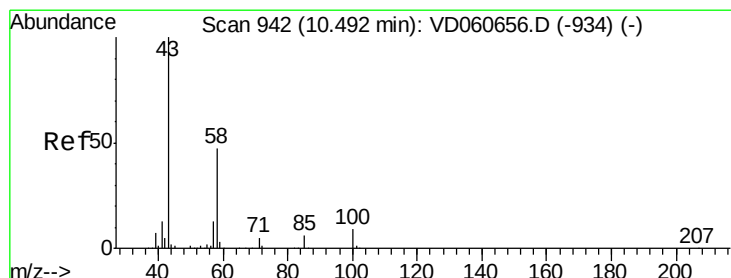
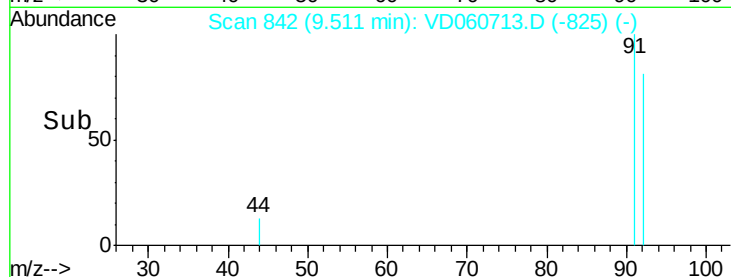
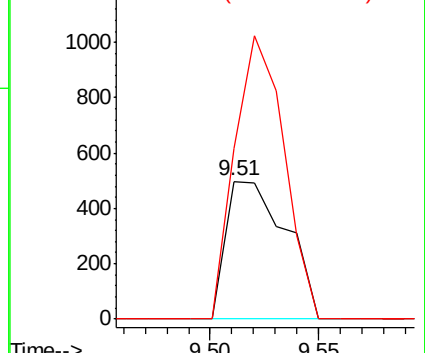
92 100

91 123.7 132.6 199.0#



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#59

2-Hexanone

Concen: 1.661 ug/l

RT: 10.48 min Scan# 940

Delta R.T. -0.02 min

Lab File: VD060713.D

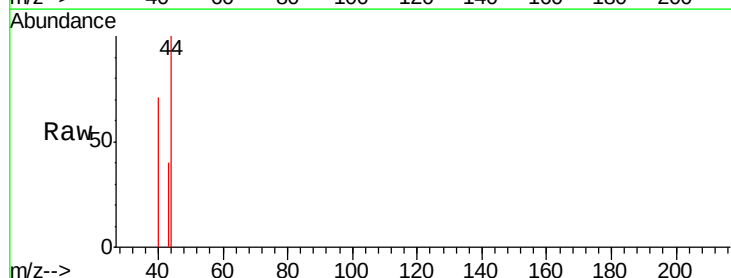
Acq: 26 Dec 2018 12:39

Tgt Ion: 43 Resp: 196

Ion Ratio Lower Upper

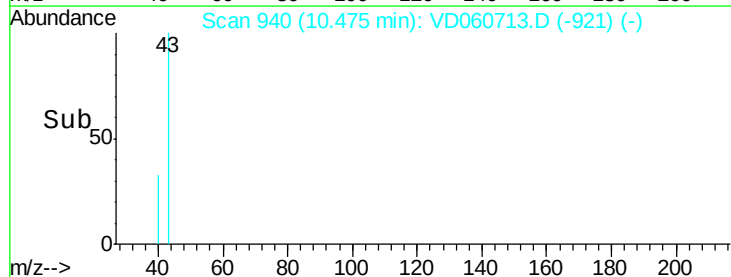
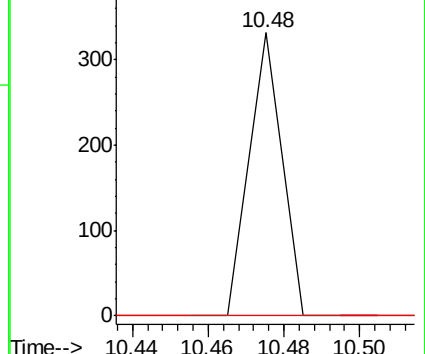
43 100

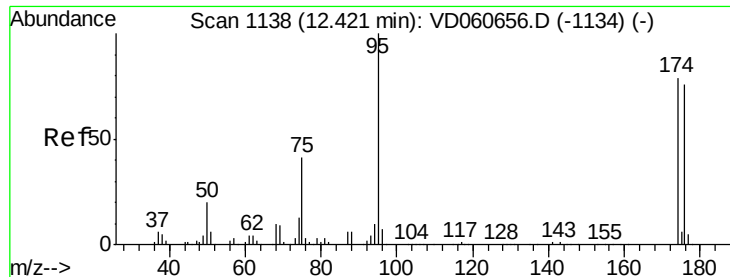
58 0.0 23.5 70.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.41 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

Instrument :

MSVOA_D

ClientSampleId :

ROLLOFF-165

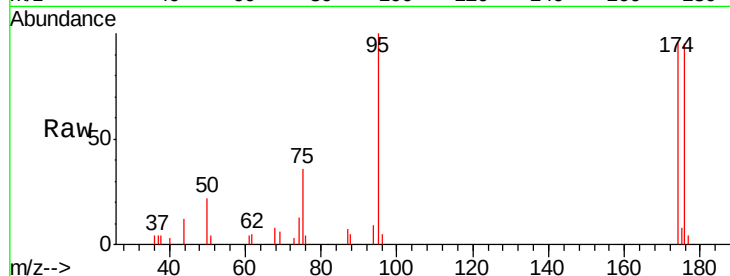
Tgt Ion: 95 Resp: 12726

Ion Ratio Lower Upper

95 100

174 96.4 0.0 158.2

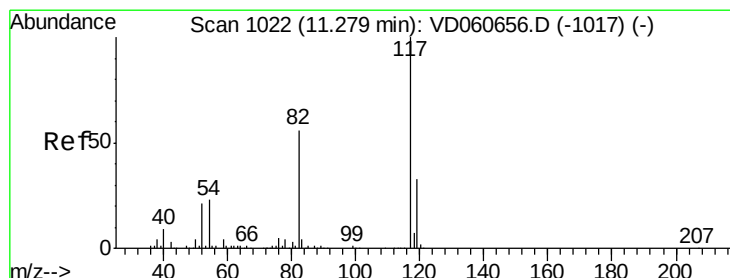
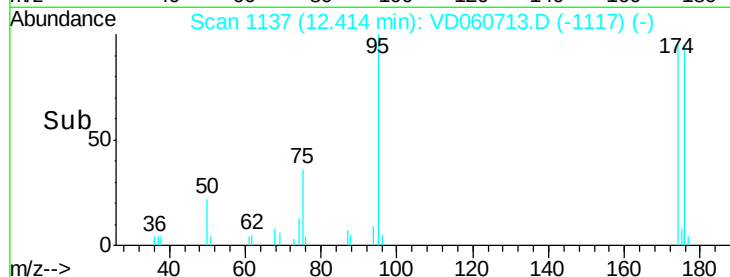
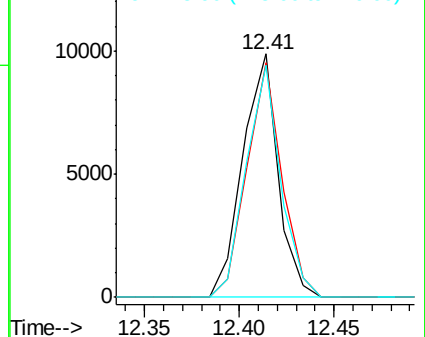
176 95.4 0.0 152.4



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: 11.26 min Scan# 1020

Delta R.T. -0.02 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

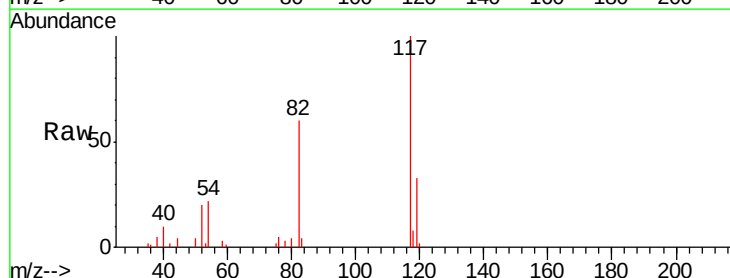
Tgt Ion: 117 Resp: 39769

Ion Ratio Lower Upper

117 100

82 59.7 44.5 66.7

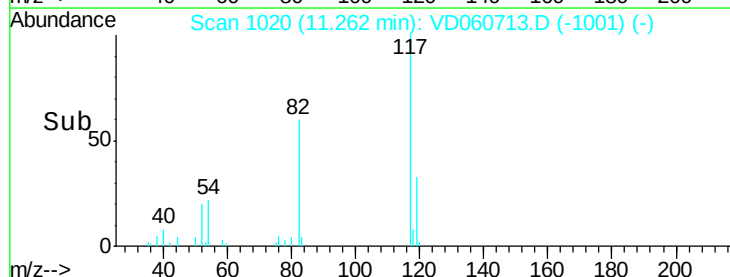
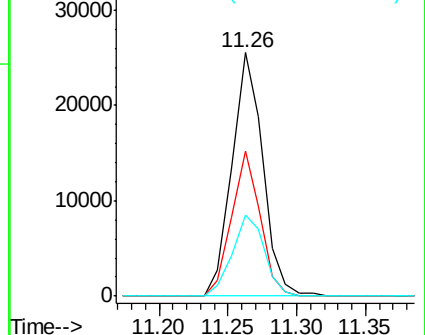
119 33.5 26.3 39.5

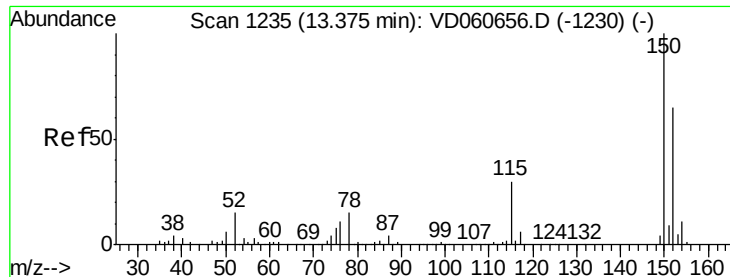


Abundance Ion 116.95 (116.65 to 117.65): V

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: 13.36 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

Instrument :

MSVOA_D

ClientSampleId :

ROLLOFF-165

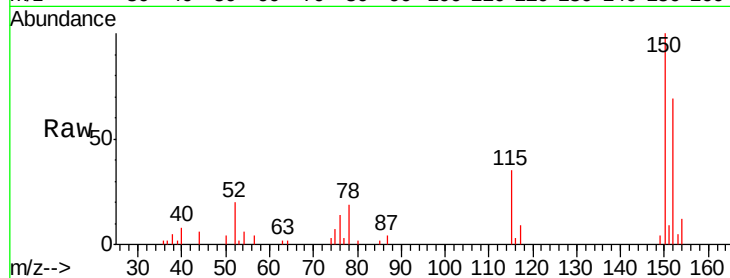
Tgt Ion:152 Resp: 14969

Ion Ratio Lower Upper

152 100

115 50.3 24.1 72.3

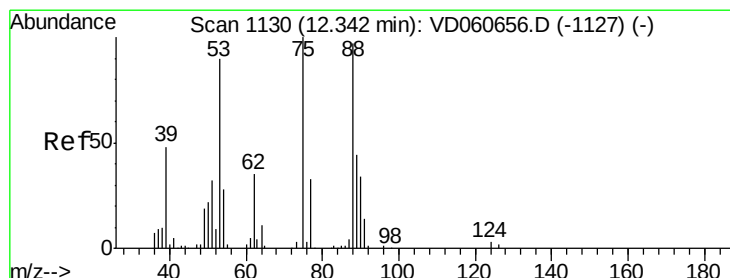
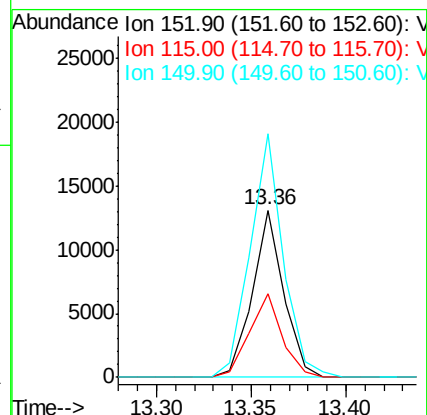
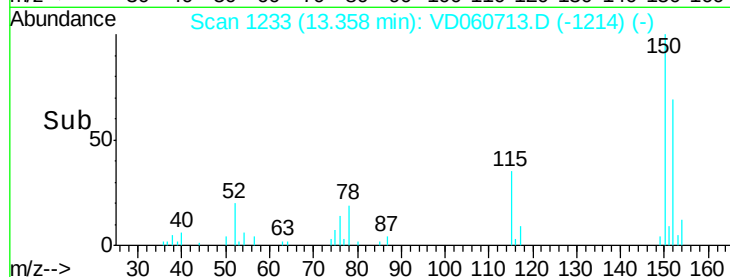
150 145.7 0.0 315.0



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: 111.592 ug/l

RT: 12.41 min Scan# 1137

Delta R.T. 0.07 min

Lab File: VD060713.D

Acq: 26 Dec 2018 12:39

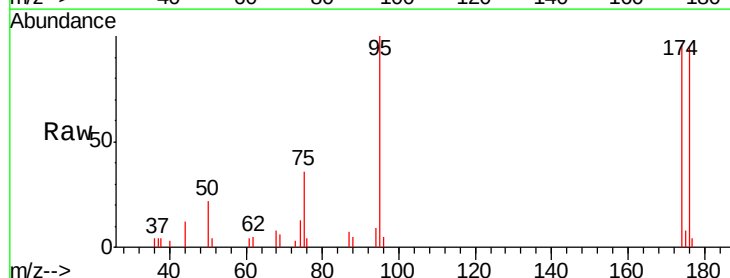
Tgt Ion: 75 Resp: 5255

Ion Ratio Lower Upper

75 100

53 0.0 72.1 108.1#

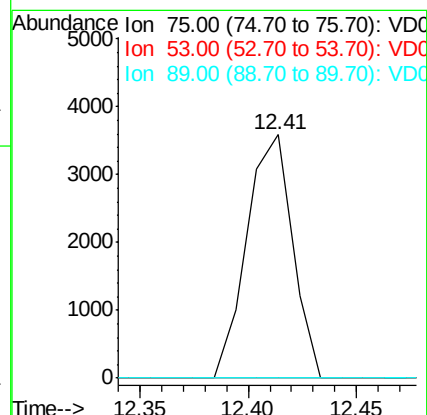
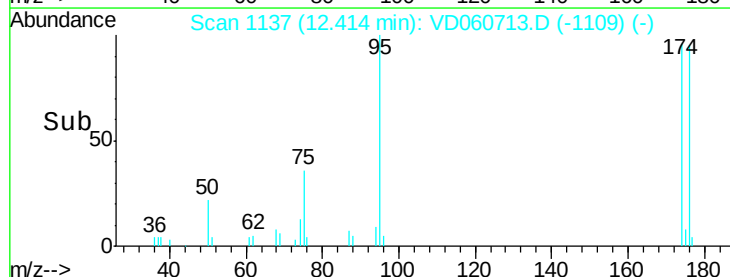
89 0.0 35.1 52.7#

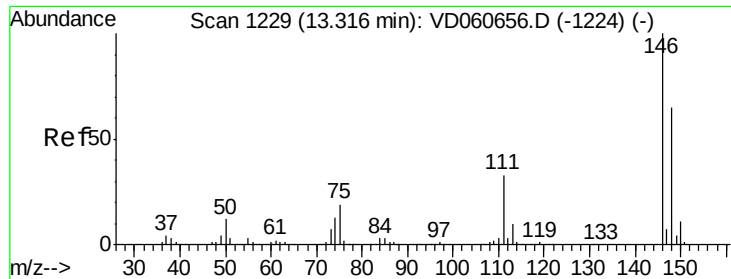


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

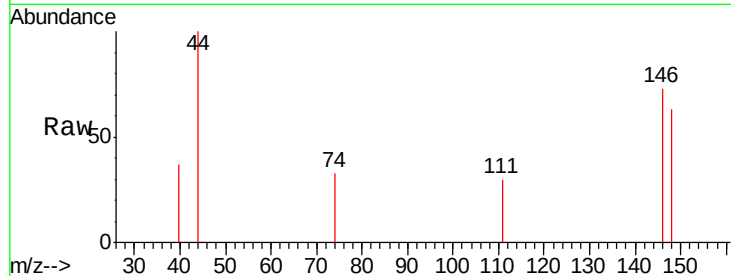




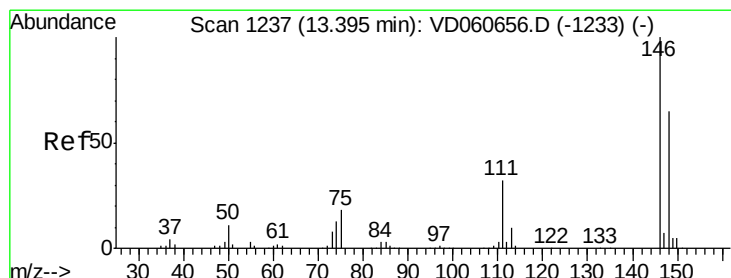
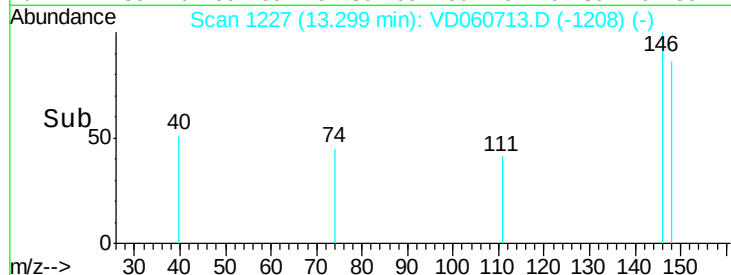
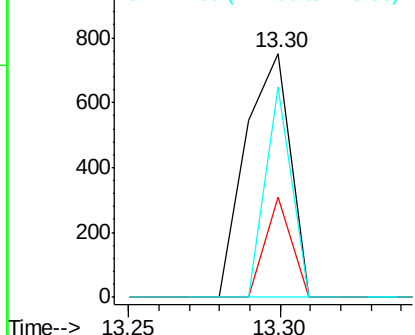
#87
 1,3-Dichlorobenzene
 Concen: 1.483 ug/l
 RT: 13.30 min Scan# 1227
 Delta R.T. -0.02 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

Instrument :
 MSVOA_D
 ClientSampleId :
 ROLLOFF-165

Tgt Ion:146 Resp: 766
 Ion Ratio Lower Upper
 146 100
 111 41.3 16.6 49.8
 148 86.3 32.6 97.8

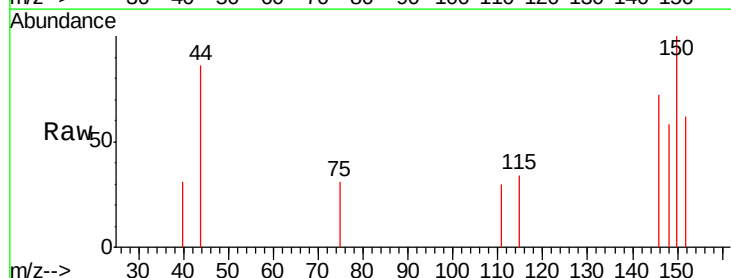


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

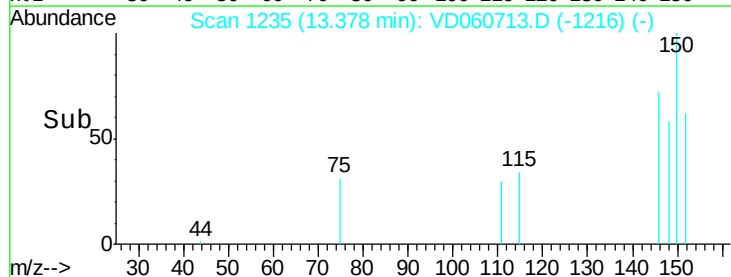
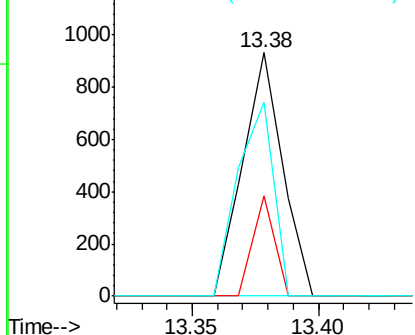


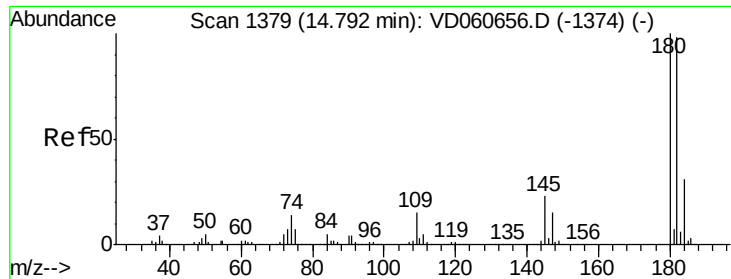
#88
 1,4-Dichlorobenzene
 Concen: 2.014 ug/l
 RT: 13.38 min Scan# 1235
 Delta R.T. -0.02 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

Tgt Ion:146 Resp: 1025
 Ion Ratio Lower Upper
 146 100
 111 41.4 16.2 48.5
 148 79.5 32.7 98.1



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

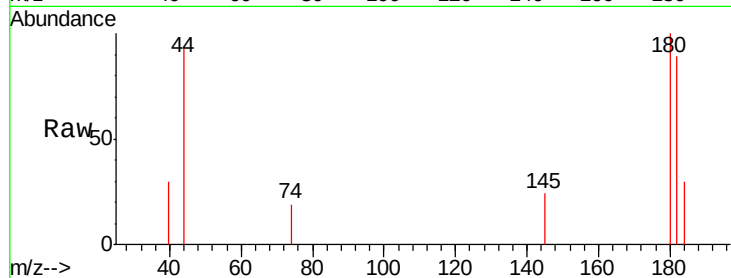




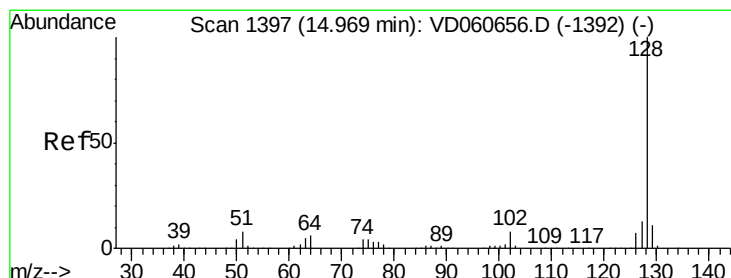
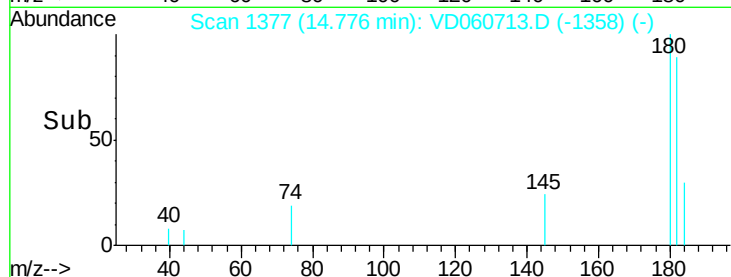
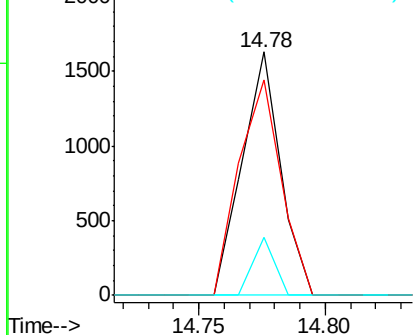
#93
 1,2,4-Trichlorobenzene
 Concen: 5.229 ug/l
 RT: 14.78 min Scan# 1377
 Delta R.T. -0.02 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

Instrument :
 MSVOA_D
 ClientSampleId :
 ROLLOFF-165

Tgt Ion:180 Resp: 1724
 Ion Ratio Lower Upper
 180 100
 182 88.6 48.8 146.4
 145 23.7 11.8 35.3

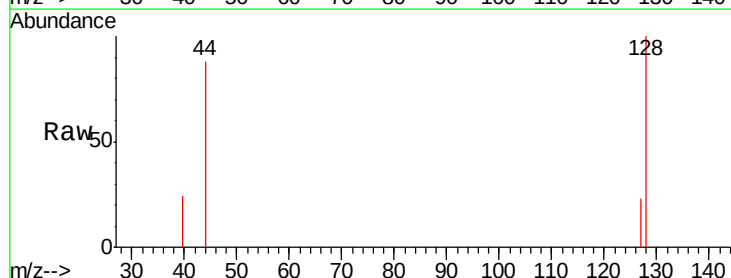


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

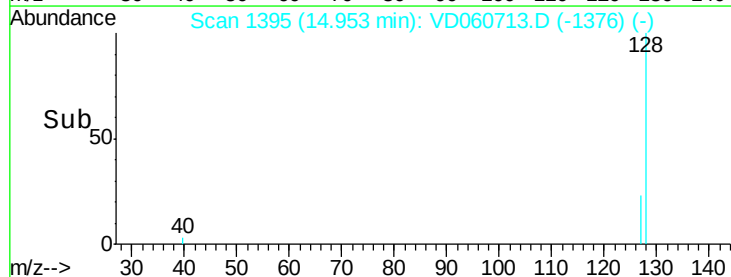
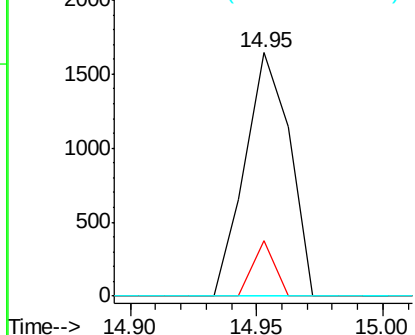


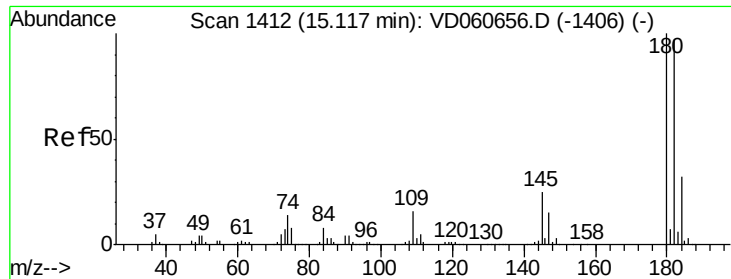
#95
 Naphthalene
 Concen: 5.193 ug/l
 RT: 14.95 min Scan# 1395
 Delta R.T. -0.02 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

Tgt Ion:128 Resp: 2035
 Ion Ratio Lower Upper
 128 100
 127 22.6 10.1 15.1#
 129 0.0 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

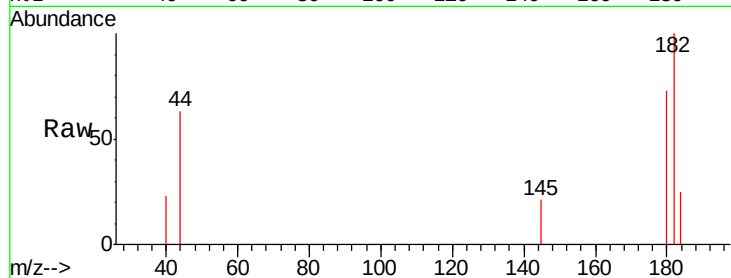




#96
 1,2,3-Trichlorobenzene
 Concen: 6.441 ug/l
 RT: 15.10 min Scan# 1410
 Delta R.T. -0.02 min
 Lab File: VD060713.D
 Acq: 26 Dec 2018 12:39

Instrument :
 MSVOA_D
 ClientSampleId :
 ROLLOFF-165

Tgt Ion:180 Resp: 1660
 Ion Ratio Lower Upper
 180 100
 182 137.5 48.6 145.9
 145 29.3 12.6 37.8



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

