

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062418\
 Data File : VD058381.D
 Acq On : 24 Jun 2018 19:39
 Operator : VA/AP
 Sample : J3671-23
 Misc : 6.22g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jun 25 04:05:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	653784	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	858785	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.70	117	738223	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	395360	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.02	65	381523	57.77	ug/l	0.00
Spiked Amount			Recovery	=	115.54%	
35) Dibromofluoromethane	5.56	113	391360	55.99	ug/l	0.00
Spiked Amount			Recovery	=	111.98%	
50) Toluene-d8	8.72	98	905392	53.54	ug/l	0.00
Spiked Amount			Recovery	=	107.08%	
62) 4-Bromofluorobenzene	11.94	95	400391	57.96	ug/l	0.00
Spiked Amount			Recovery	=	115.92%	

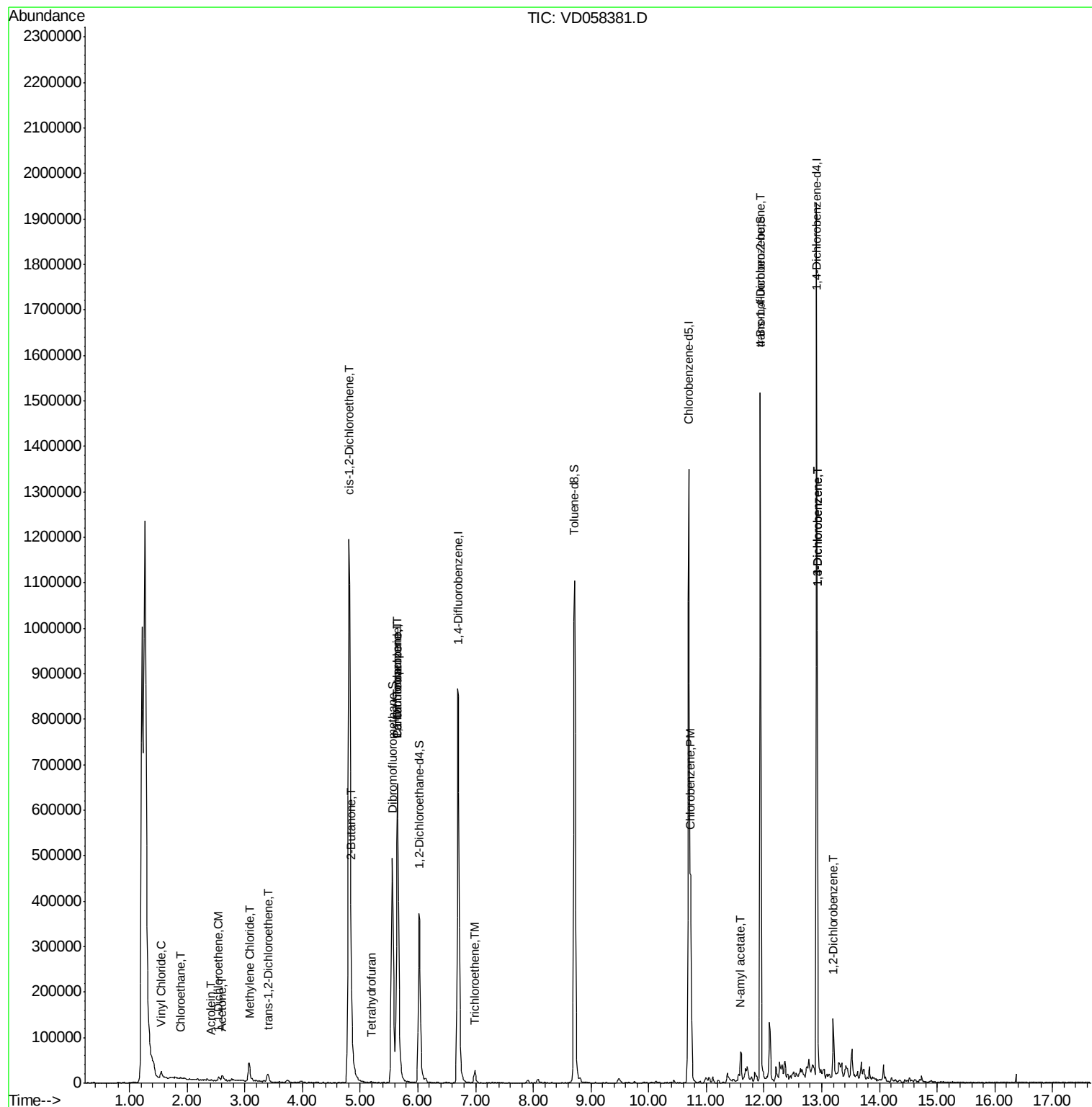
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.49	50	201	Below Cal	#	43
4) Vinyl Chloride	1.55	62	13838	4.040	ug/l	99
6) Chloroethane	1.89	64	210	1.548	ug/l #	41
12) 1,1-Dichloroethene	2.55	96	2969	1.322	ug/l #	50
13) Acrolein	2.41	56	198	1.592	ug/l #	11
16) Acetone	2.60	43	22672	25.104	ug/l	94
20) Methylene Chloride	3.08	84	19868	4.047	ug/l	95
21) trans-1,2-Dichloroethene	3.41	96	8548	3.482	ug/l #	54
25) 2-Butanone	4.85	43	2211	1.123	ug/l #	1
27) cis-1,2-Dichloroethene	4.81	96	747293	121.821	ug/l	83
29) Tetrahydrofuran	5.20	42	1736	1.657	ug/l #	37
31) Cyclohexane	5.64	56	14024	Below Cal	#	1
36) 1,1-Dichloropropene	5.65	75	48113	5.663	ug/l #	52
38) Carbon Tetrachloride	5.65	117	53895	6.385	ug/l #	14
44) Trichloroethene	6.99	130	11690	1.924	ug/l	94
65) Chlorobenzene	10.73	112	204505	14.810	ug/l	96
74) N-amyl acetate	11.59	43	12063	1.319	ug/l #	59
81) trans-1,4-Dichloro-2-buten	11.94	75	184341	130.939	ug/l #	1
82) 4-Chlorotoluene	12.33	91	577	Below Cal	#	45
87) 1,3-Dichlorobenzene	12.93	146	27340	2.221	ug/l	87
88) 1,4-Dichlorobenzene	12.93	146	27340	2.275	ug/l	86
91) 1,2-Dichlorobenzene	13.20	146	27763	2.651	ug/l	91

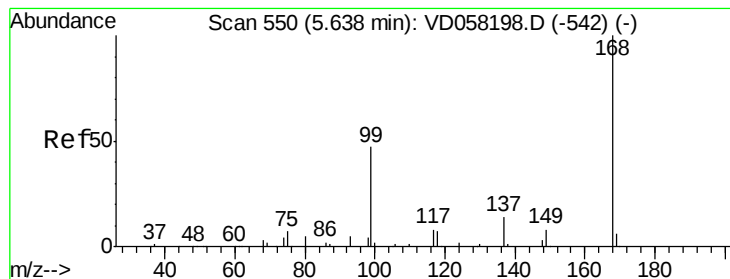
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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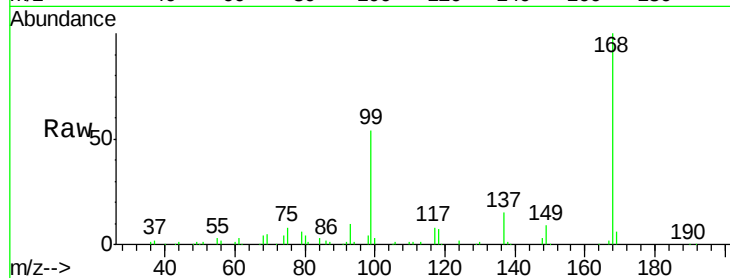


#1

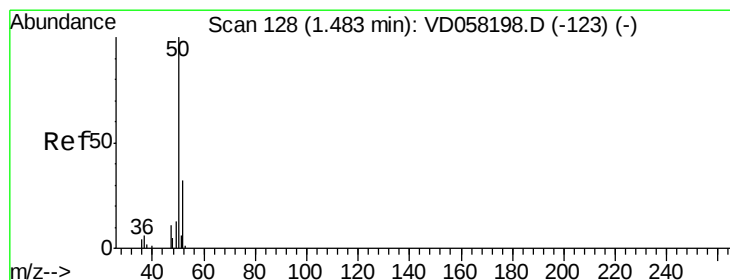
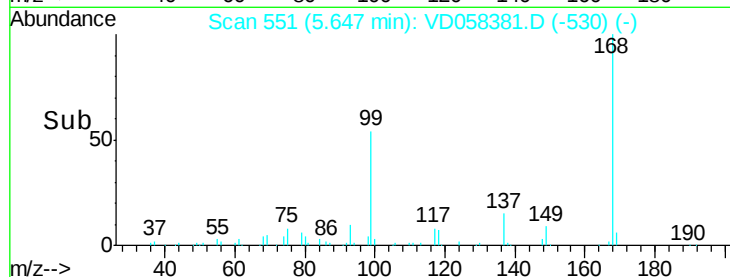
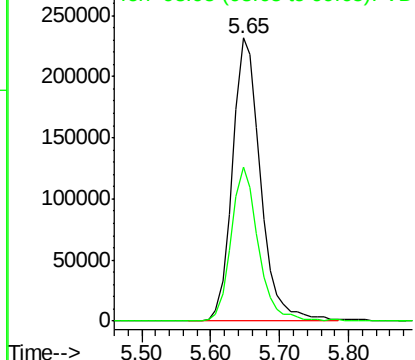
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 5.65 min Scan# 551
 Delta R.T. 0.01 min
 Lab File: VD058381.D
 Acq: 24 Jun 2018 19:39

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:168 Resp: 653784
 Ion Ratio Lower Upper
 168 100
 99 54.4 41.1 61.7



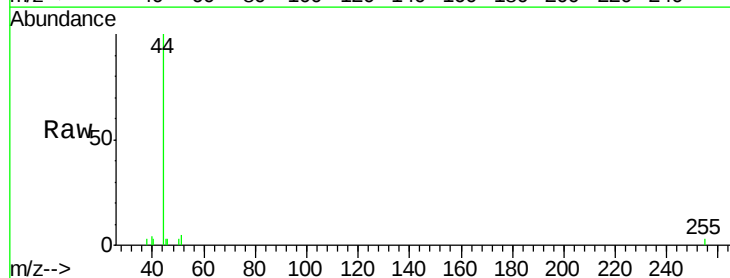
Abundance Ion 167.90 (167.60 to 168.60): V
 Ion 98.95 (98.65 to 99.65): VDC



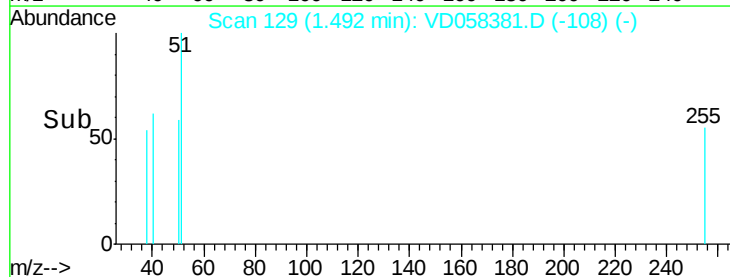
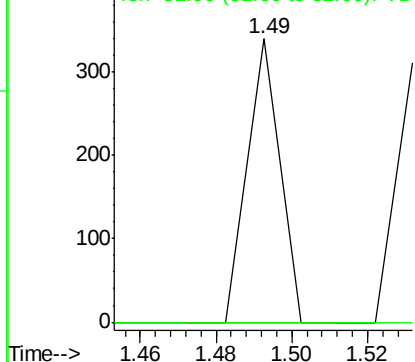
#3

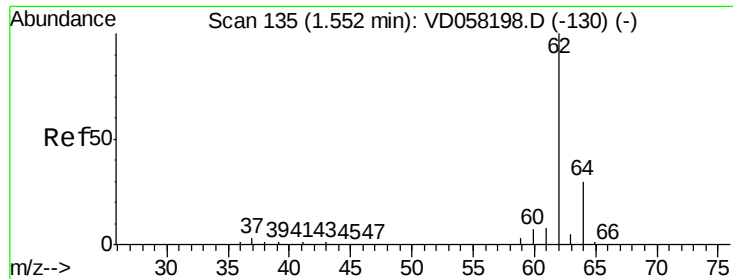
Chloromethane
 Concen: Below Cal
 RT: 1.49 min Scan# 129
 Delta R.T. 0.01 min
 Lab File: VD058381.D
 Acq: 24 Jun 2018 19:39

Tgt Ion: 50 Resp: 201
 Ion Ratio Lower Upper
 50 100
 52 0.0 25.0 37.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC
 Ion 51.90 (51.60 to 52.60): VDC





#4

Vinyl Chloride

Concen: 4.040 ug/l

RT: 1.55 min Scan# 135

Delta R.T. -0.00 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Instrument :

MSVOA_D

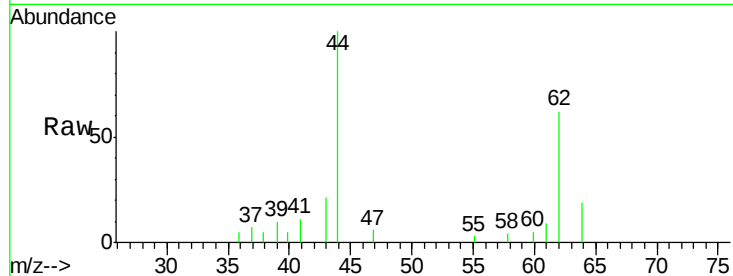
ClientSampled :

Tot Ion: 62 Resp: 13838

Ion Ratio Lower Upper

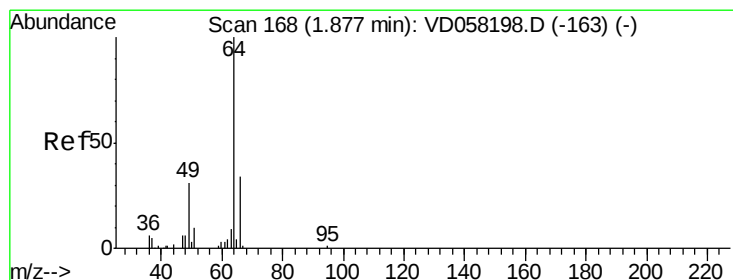
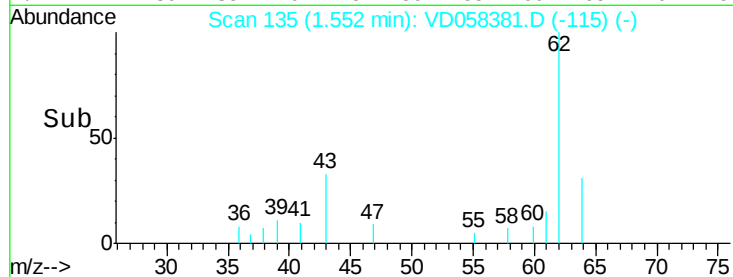
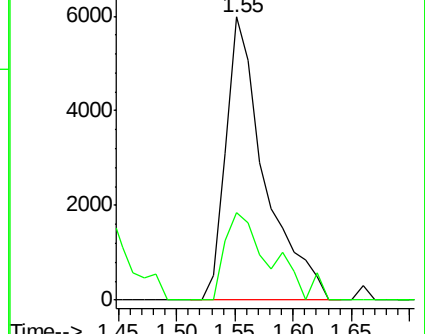
62 100

64 31.0 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC



#6

Chloroethane

Concen: 1.548 ug/l

RT: 1.89 min Scan# 169

Delta R.T. 0.01 min

Lab File: VD058381.D

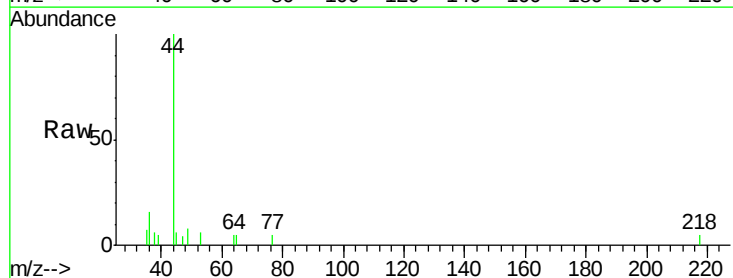
Acq: 24 Jun 2018 19:39

Tgt Ion: 64 Resp: 210

Ion Ratio Lower Upper

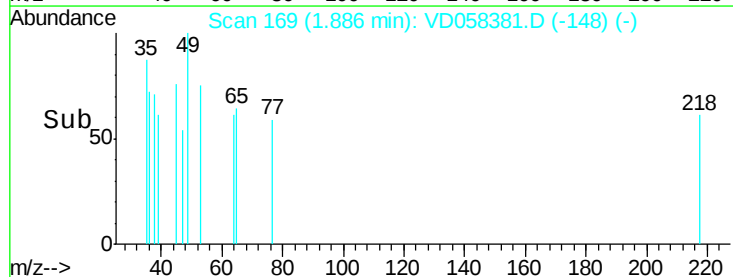
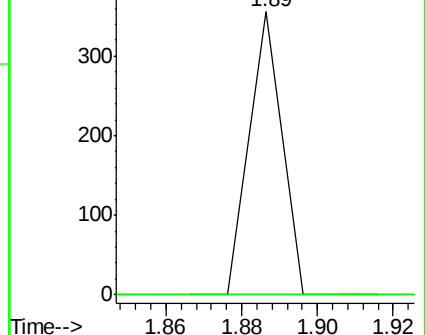
64 100

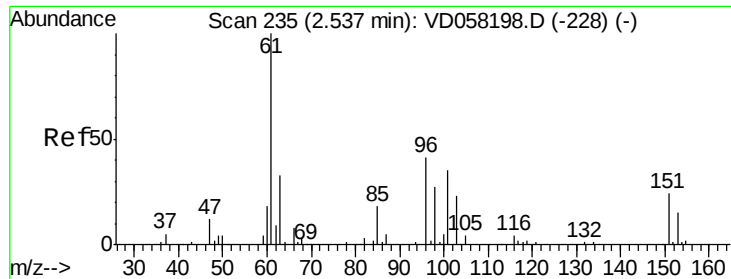
66 0.0 27.3 40.9#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#12

1,1-Dichloroethene

Concen: 1.322 ug/l

RT: 2.55 min Scan# 236

Delta R.T. 0.01 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Instrument :

MSVOA_D

ClientSampleId :

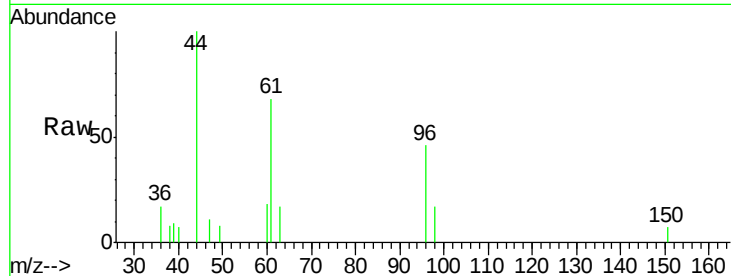
Tot Ion: 96 Resp: 2969

Ion Ratio Lower Upper

96 100

61 149.9 193.9 290.9#

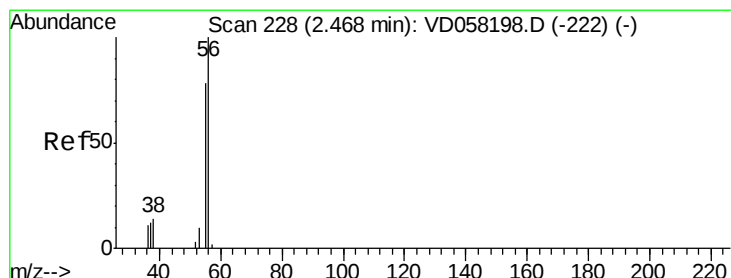
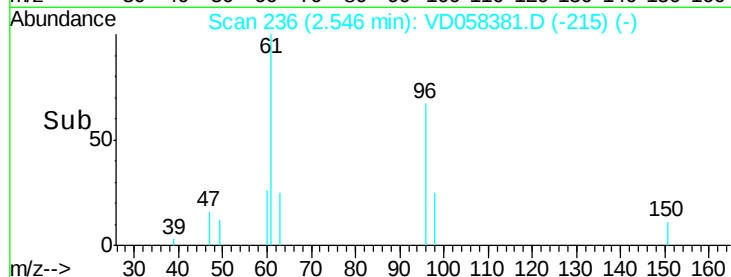
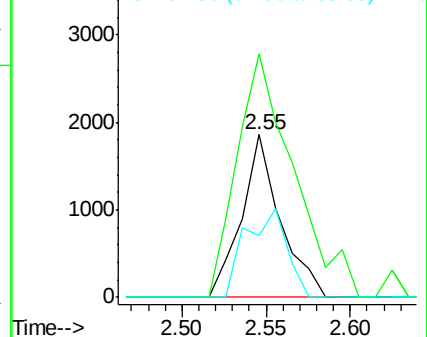
98 37.8 51.7 77.5#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#13

Acrolein

Concen: 1.592 ug/l

RT: 2.41 min Scan# 222

Delta R.T. -0.06 min

Lab File: VD058381.D

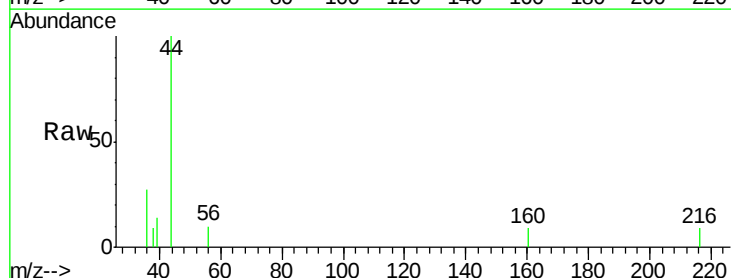
Acq: 24 Jun 2018 19:39

Tgt Ion: 56 Resp: 198

Ion Ratio Lower Upper

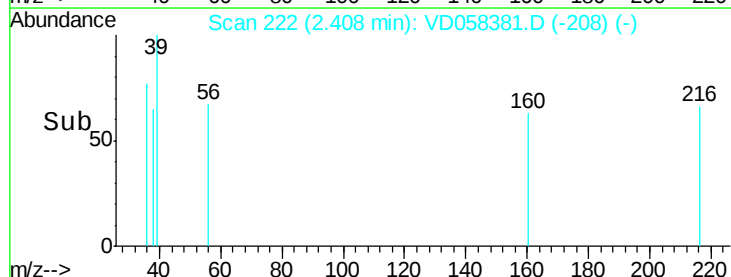
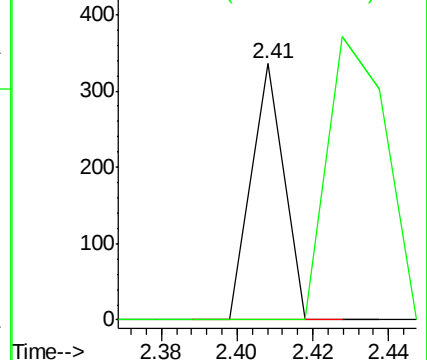
56 100

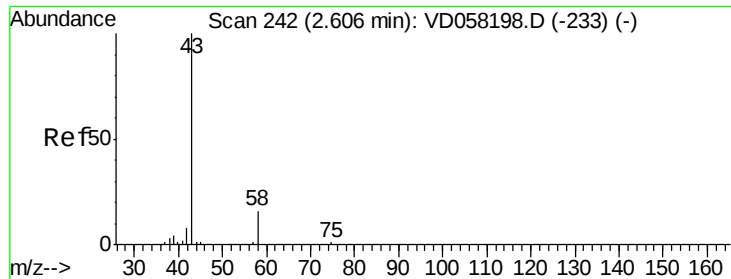
55 0.0 62.1 93.1#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC





#16

Acetone

Concen: 25.104 ug/l

RT: 2.60 min Scan# 242

Delta R.T. -0.00 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Instrument :

MSVOA_D

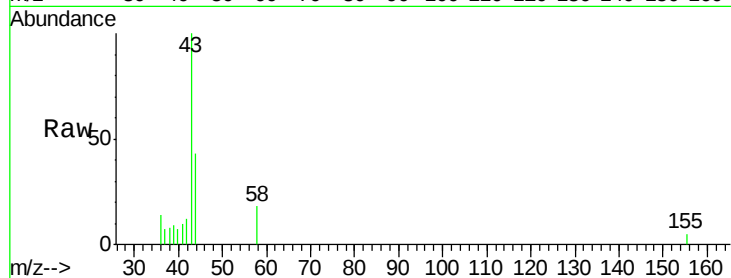
ClientSampleId :

Tot Ion: 43 Resp: 22672

Ion Ratio Lower Upper

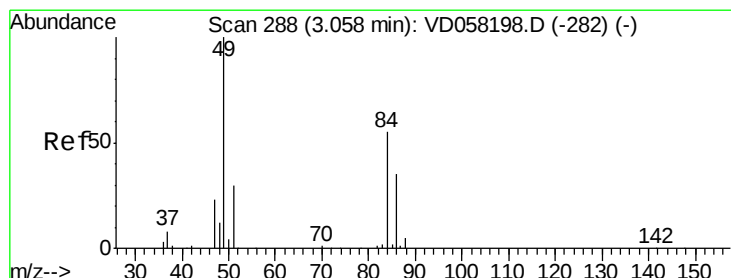
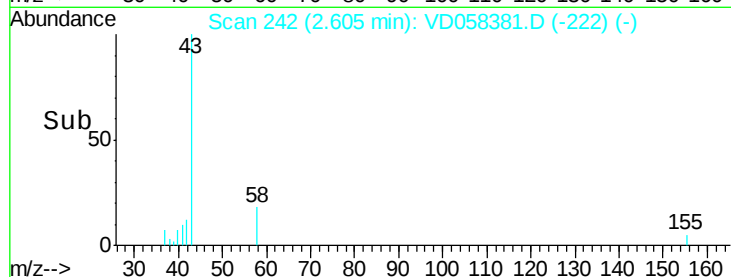
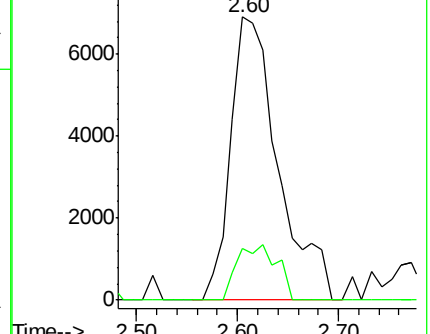
43 100

58 18.4 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 4.047 ug/l

RT: 3.08 min Scan# 290

Delta R.T. 0.02 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Tgt Ion: 84 Resp: 19868

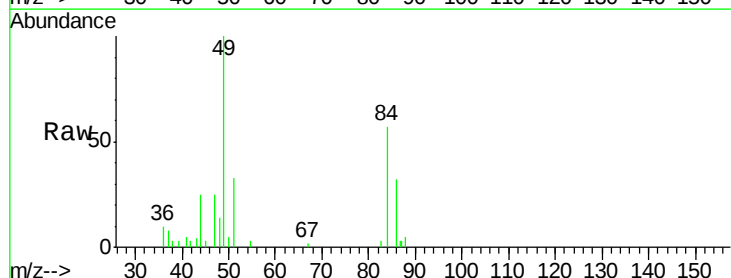
Ion Ratio Lower Upper

84 100

49 175.2 145.0 217.6

51 57.1 42.9 64.3

86 56.8 50.1 75.1

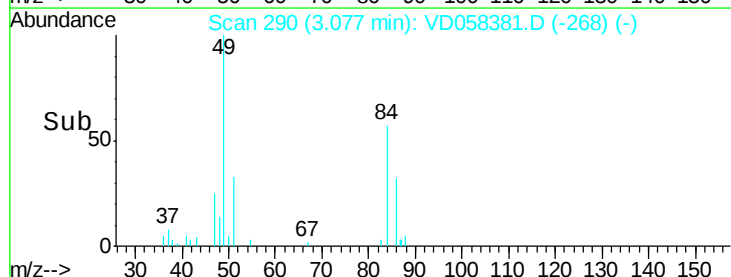
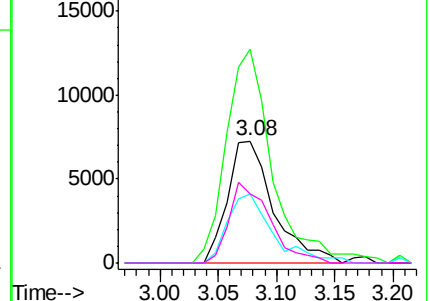


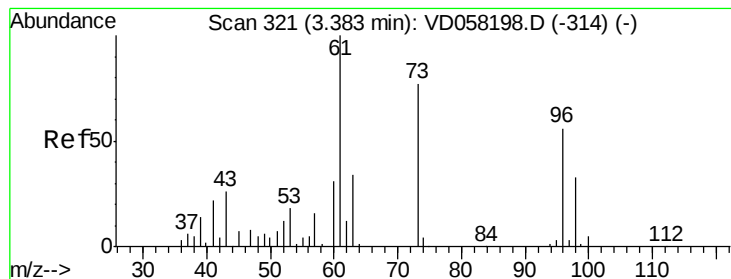
Abundance Ion 83.95 (83.65 to 84.65): VDC

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





#21

trans-1,2-Dichloroethene

Concen: 3.482 ug/l

RT: 3.41 min Scan# 324

Delta R.T. 0.03 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Instrument :

MSVOA_D

ClientSampled :

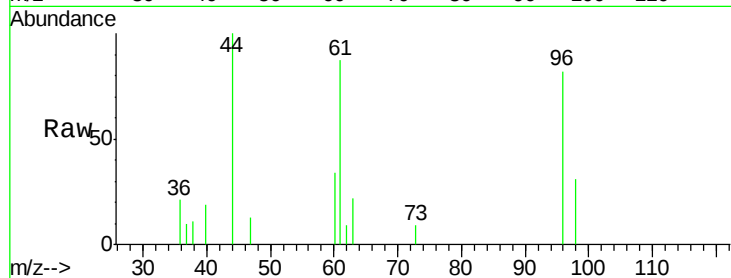
Tot Ion: 96 Resp: 8548

Ion Ratio Lower Upper

96 100

61 106.4 143.8 215.6#

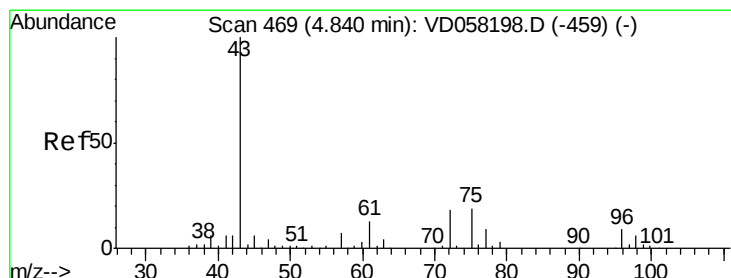
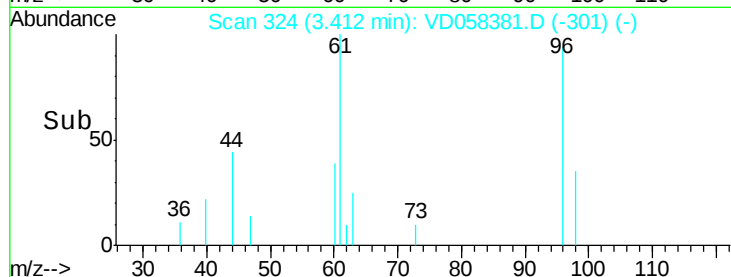
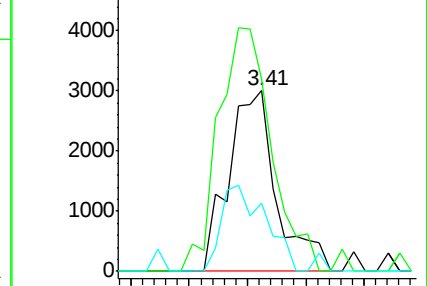
98 37.6 48.0 72.0#



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#25

2-Butanone

Concen: 1.123 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD058381.D

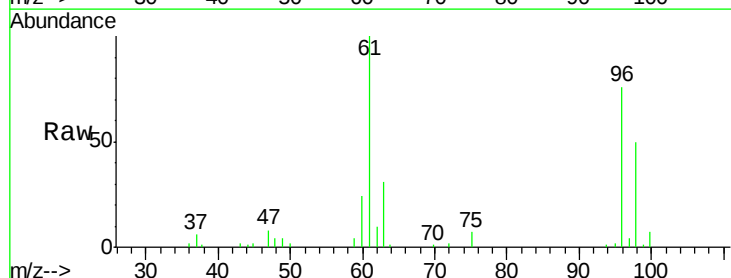
Acq: 24 Jun 2018 19:39

Tgt Ion: 43 Resp: 2211

Ion Ratio Lower Upper

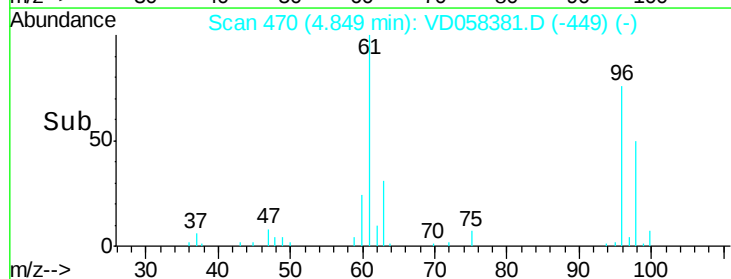
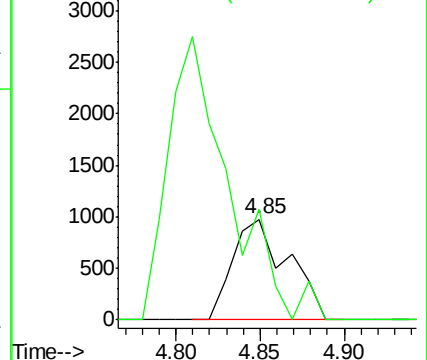
43 100

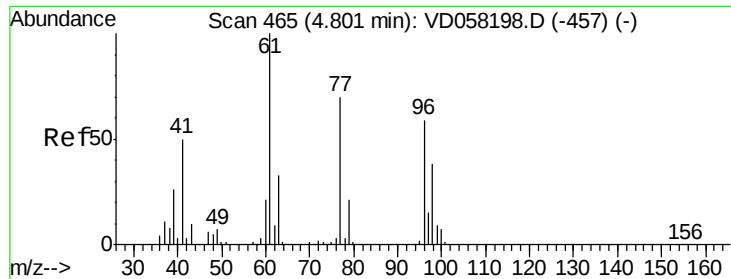
72 110.2 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



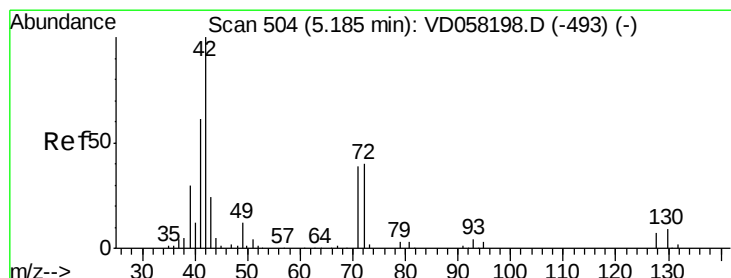
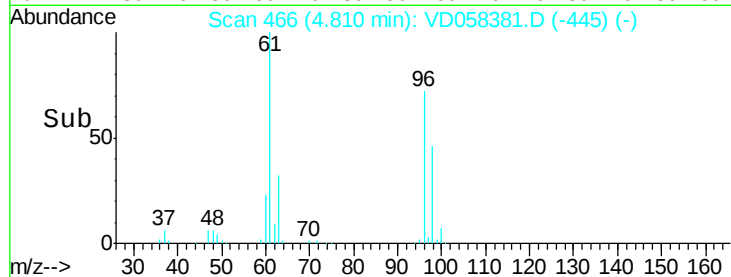
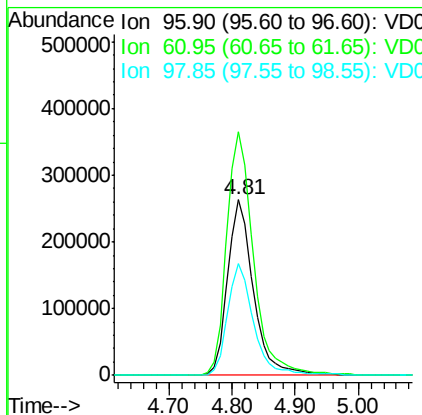
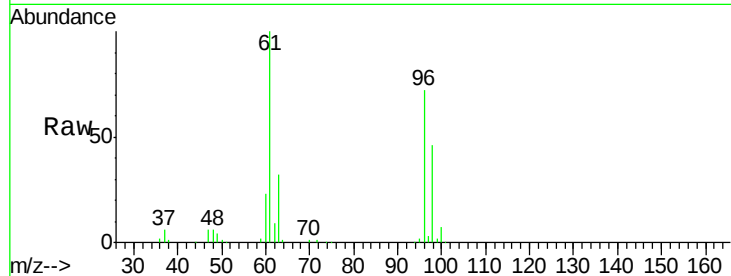


#27

cis-1,2-Dichloroethene
 Concen: 121.821 ug/l
 RT: 4.81 min Scan# 466
 Delta R.T. 0.01 min
 Lab File: VD058381.D
 Acq: 24 Jun 2018 19:39

Instrument :
 MSVOA_D
 ClientSampleId :

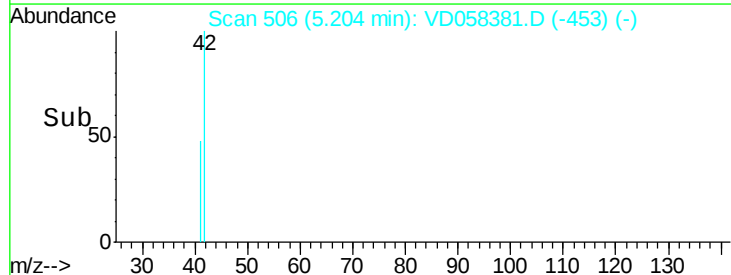
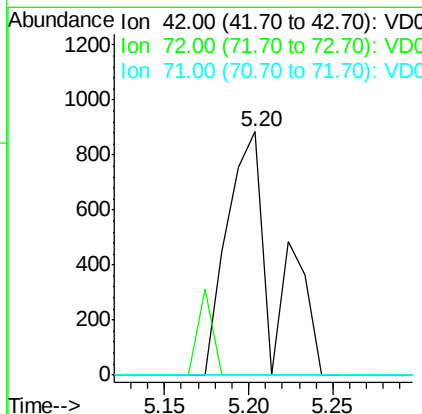
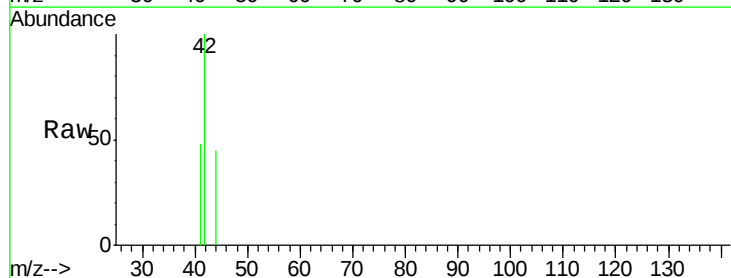
Tot Ion	96	Resp	747293
Ion	Ratio	Lower	Upper
96	100		
61	138.6	0.0	338.6
98	63.7	0.0	130.2

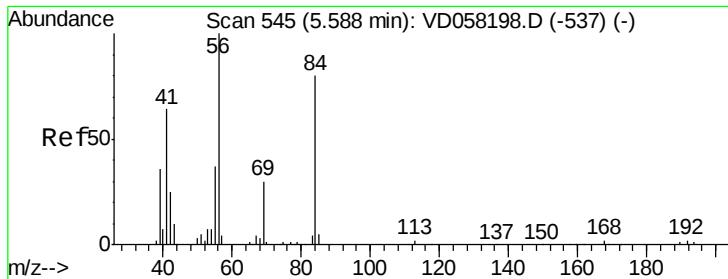


#29

Tetrahydrofuran
 Concen: 1.657 ug/l
 RT: 5.20 min Scan# 506
 Delta R.T. 0.02 min
 Lab File: VD058381.D
 Acq: 24 Jun 2018 19:39

Tgt Ion	42	Resp	1736
Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.2	45.2#
71	0.0	30.1	45.1#





#31

Cyclohexane

Concen: Below Cal

RT: 5.64 min Scan# 550

Delta R.T. 0.05 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Instrument :

MSVOA_D

ClientSampled :

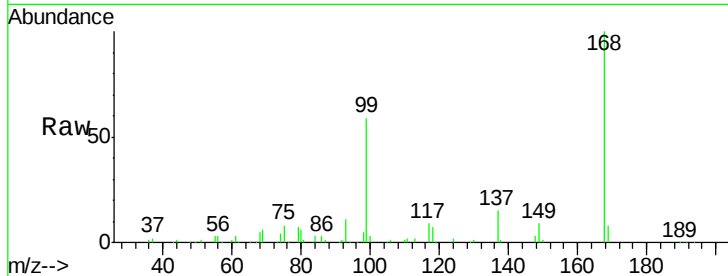
Tot Ion: 56 Resp: 14024

Ion Ratio Lower Upper

56 100

69 222.1 23.6 35.4#

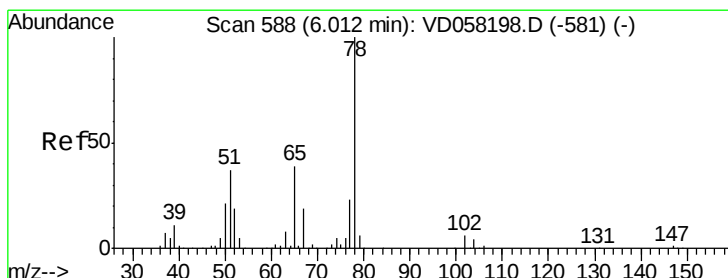
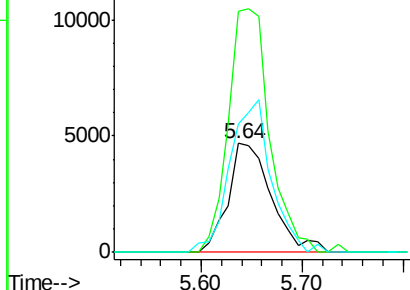
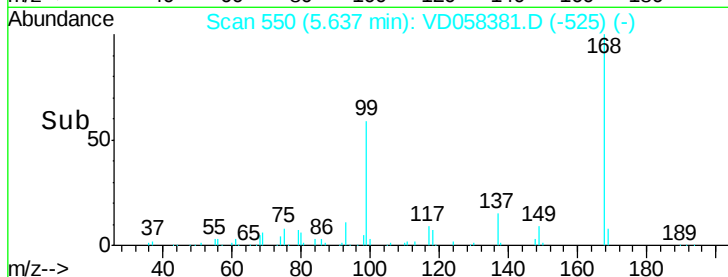
84 118.0 65.2 97.8#



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: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058381.D

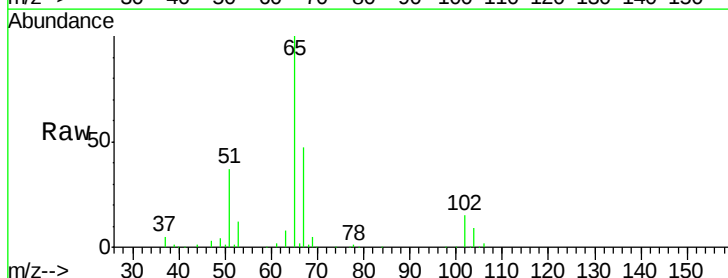
Acq: 24 Jun 2018 19:39

Tgt Ion: 65 Resp: 381523

Ion Ratio Lower Upper

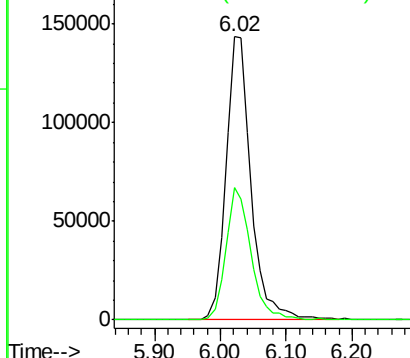
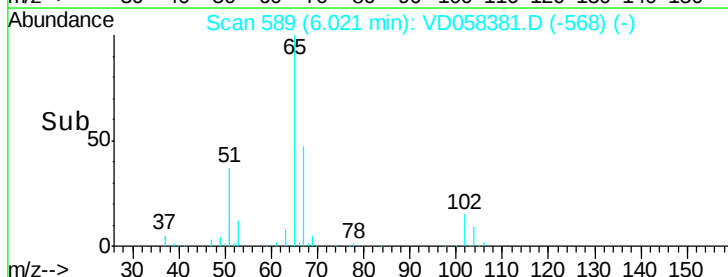
65 100

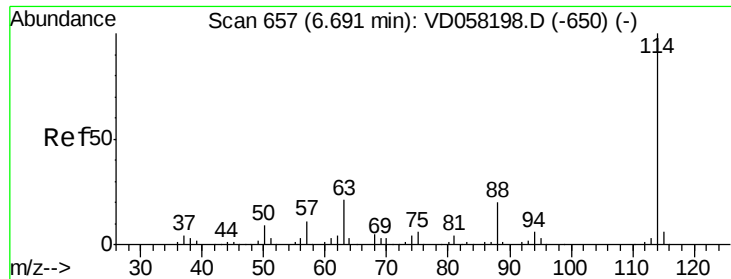
67 46.7 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

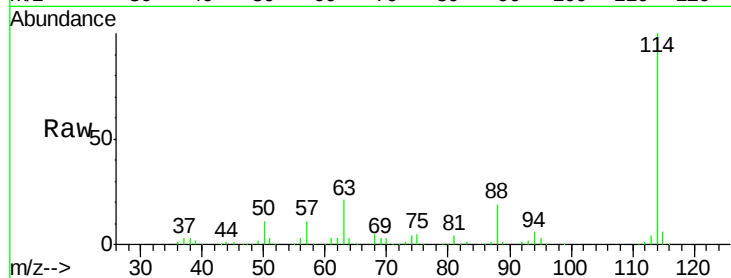




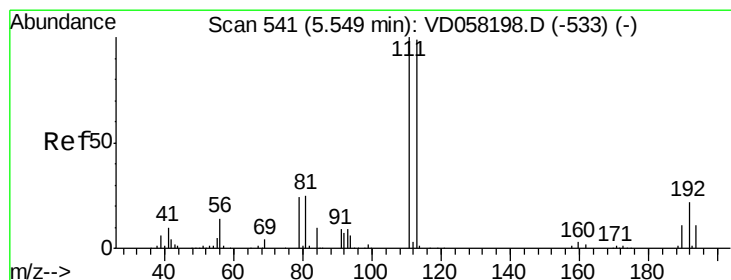
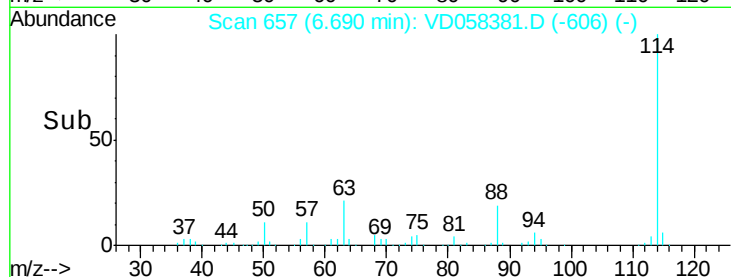
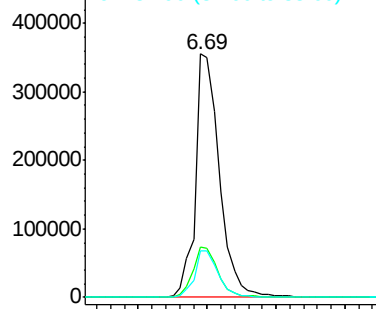
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.69 min Scan# 657
Delta R.T. -0.00 min
Lab File: VD058381.D
Acq: 24 Jun 2018 19:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:114 Resp: 858785
Ion Ratio Lower Upper
114 100
63 20.8 0.0 42.6
88 19.1 0.0 40.6

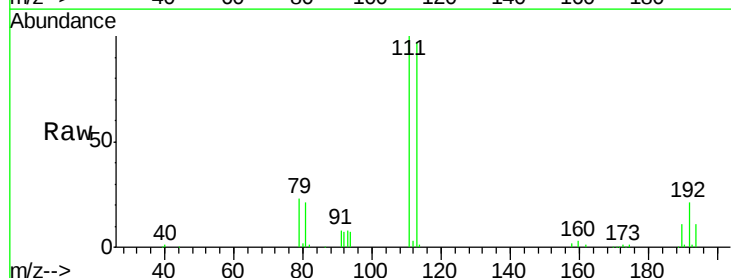


Abundance Ion 114.00 (113.70 to 114.70): V
Ion 62.95 (62.65 to 63.65): VDC
Ion 87.90 (87.60 to 88.60): VDC

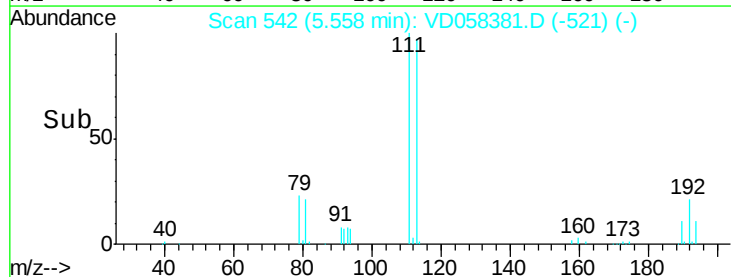
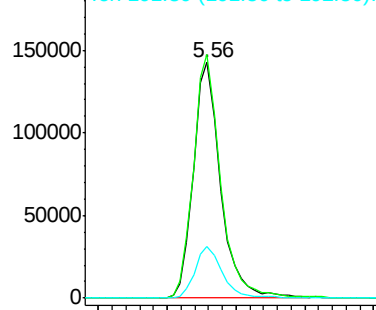


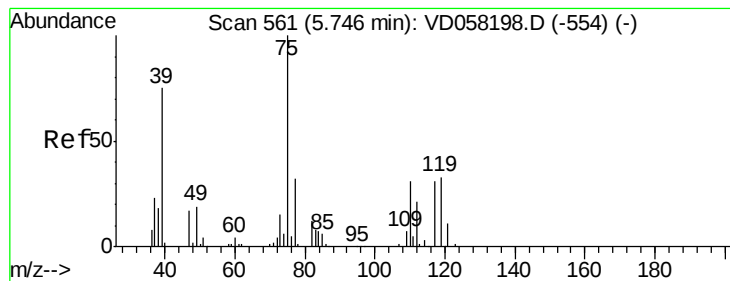
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 5.56 min Scan# 542
Delta R.T. 0.01 min
Lab File: VD058381.D
Acq: 24 Jun 2018 19:39

Tgt Ion:113 Resp: 391360
Ion Ratio Lower Upper
113 100
111 103.4 80.6 121.0
192 21.9 17.8 26.6



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: 5.663 ug/l

RT: 5.65 min Scan# 551

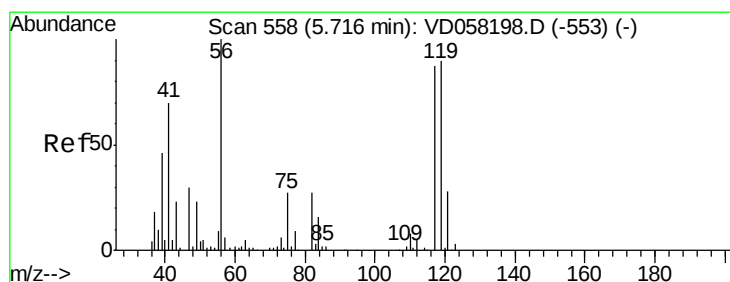
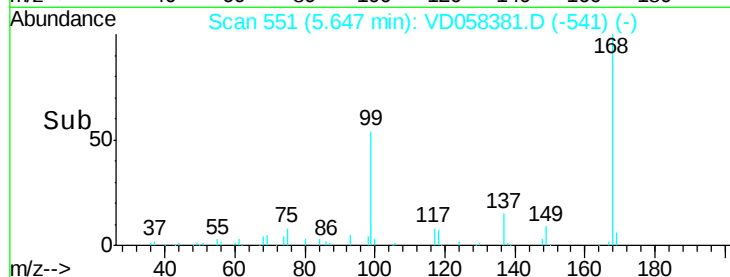
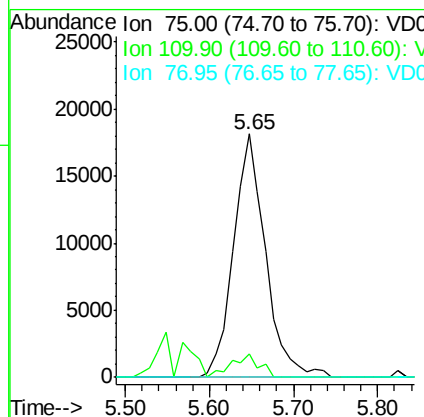
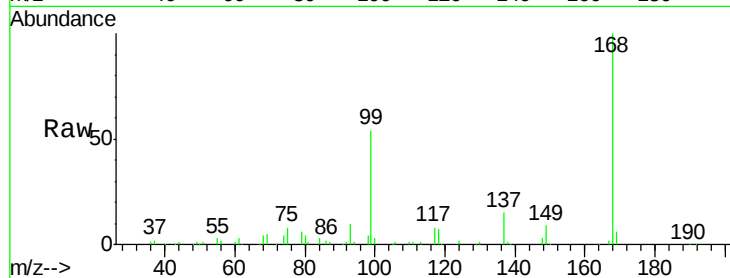
Delta R.T. -0.10 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 75 Resp: 48113
Ion Ratio Lower Upper
75 100
110 9.7 15.4 46.4#
77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 6.385 ug/l

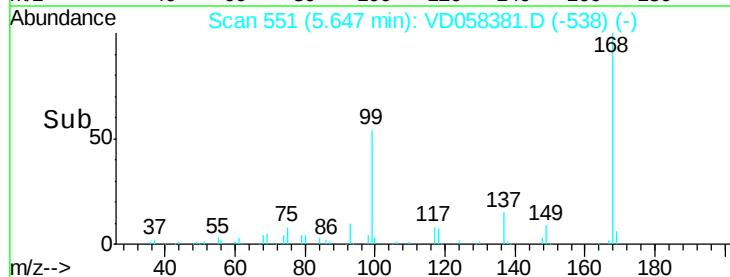
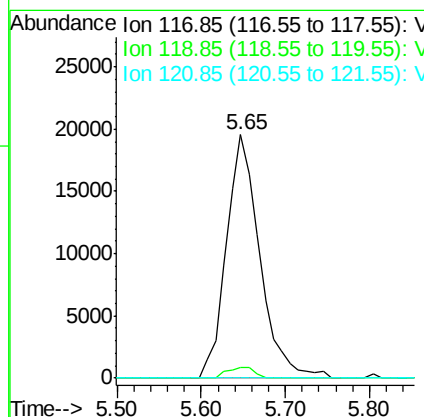
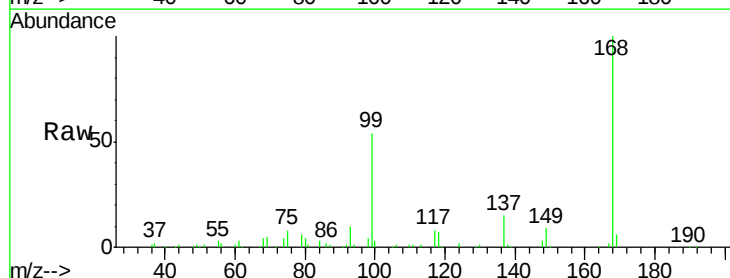
RT: 5.65 min Scan# 551

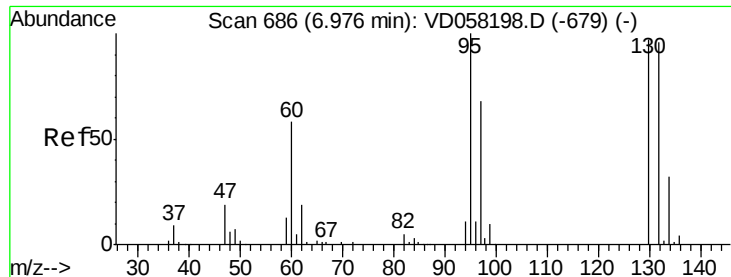
Delta R.T. -0.07 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Tgt Ion: 117 Resp: 53895
Ion Ratio Lower Upper
117 100
119 4.3 78.8 118.2#
121 0.0 25.0 37.6#

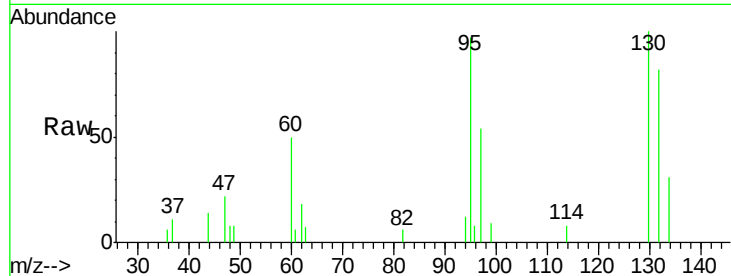




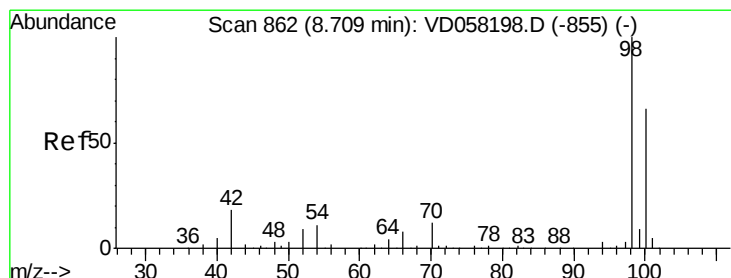
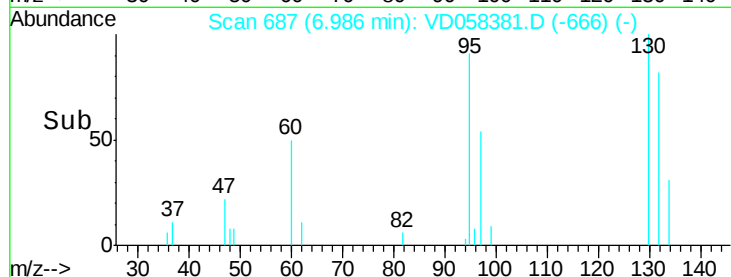
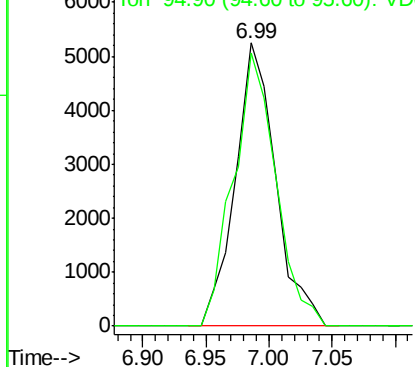
#44
 Trichloroethene
 Concen: 1.924 ug/l
 RT: 6.99 min Scan# 687
 Delta R.T. 0.01 min
 Lab File: VD058381.D
 Acq: 24 Jun 2018 19:39

Instrument :
 MSVOA_D
 ClientSampled :

Tot Ion:130 Resp: 11690
 Ion Ratio Lower Upper
 130 100
 95 96.6 0.0 205.6

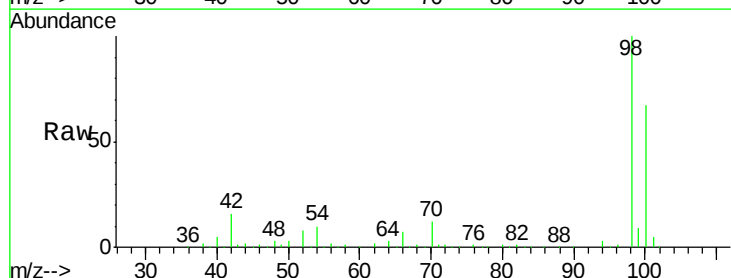


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VDC

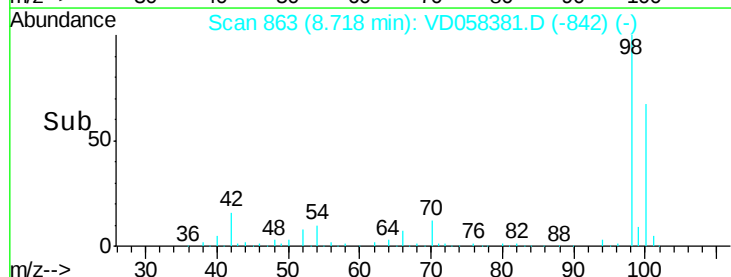
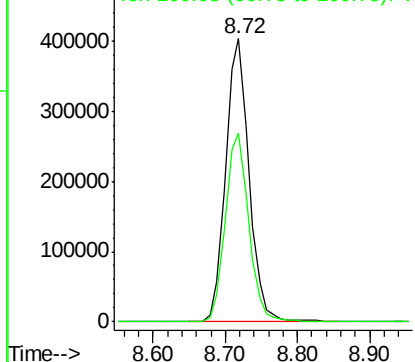


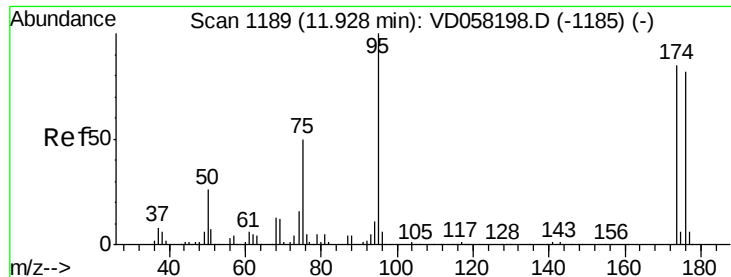
#50
 Toluene-d8
 Concen: N.D. ug/l
 RT: 8.72 min Scan# 863
 Delta R.T. 0.01 min
 Lab File: VD058381.D
 Acq: 24 Jun 2018 19:39

Tgt Ion: 98 Resp: 905392
 Ion Ratio Lower Upper
 98 100
 100 66.8 53.6 80.4



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Instrument :

MSVOA_D

ClientSampleId :

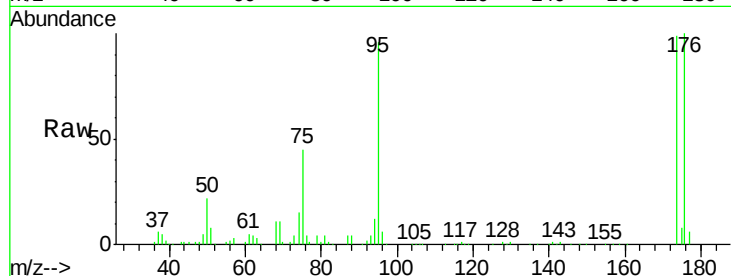
Tot Ion: 95 Resp: 400391

Ion Ratio Lower Upper

95 100

174 103.2 0.0 170.2

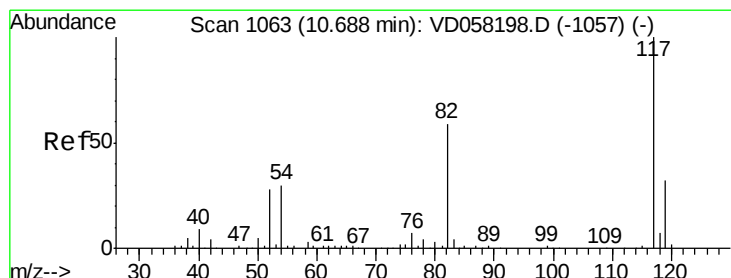
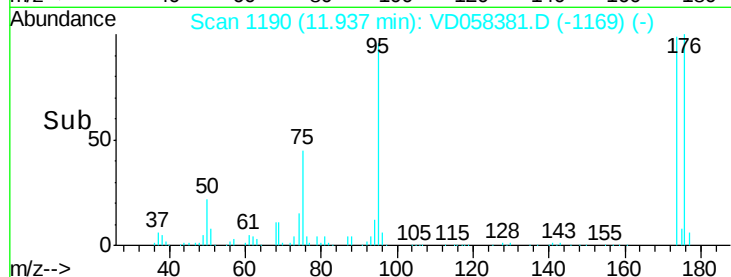
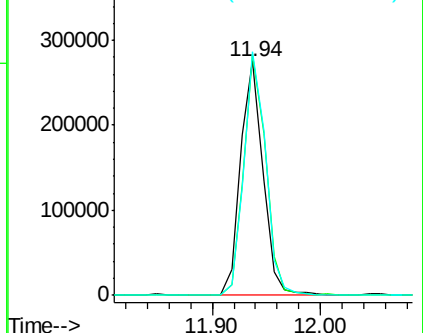
176 104.0 0.0 164.6



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: 10.70 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

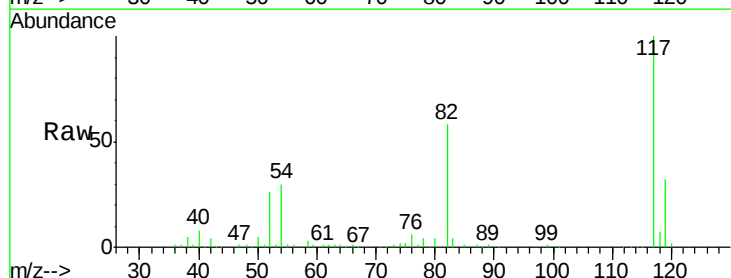
Tgt Ion: 117 Resp: 738223

Ion Ratio Lower Upper

117 100

82 57.6 47.0 70.6

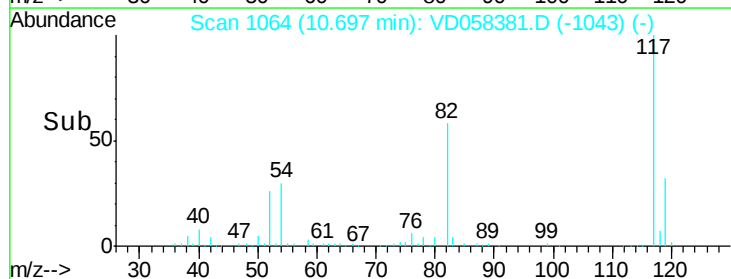
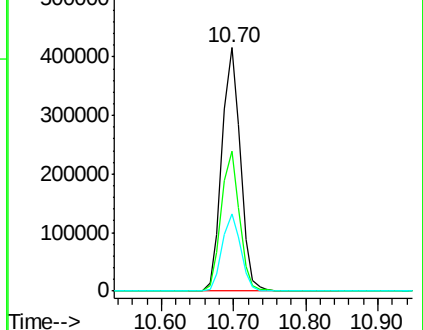
119 31.8 25.3 37.9

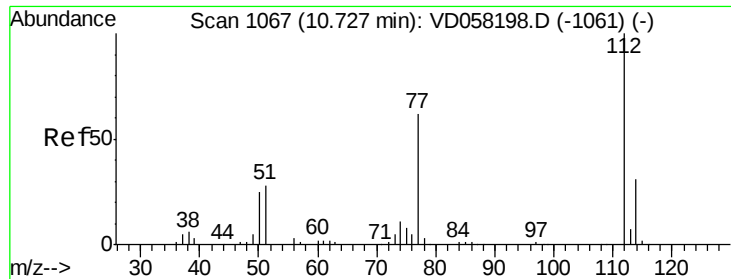


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

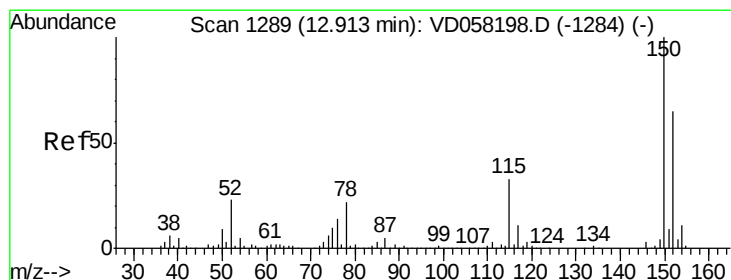
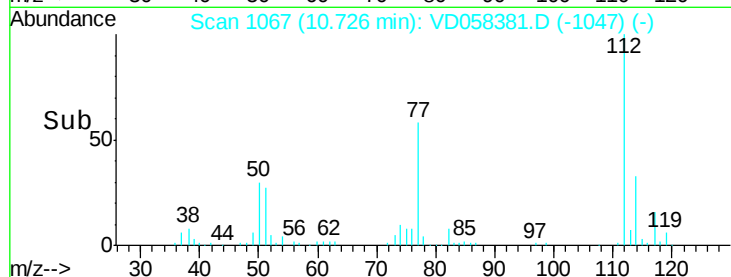
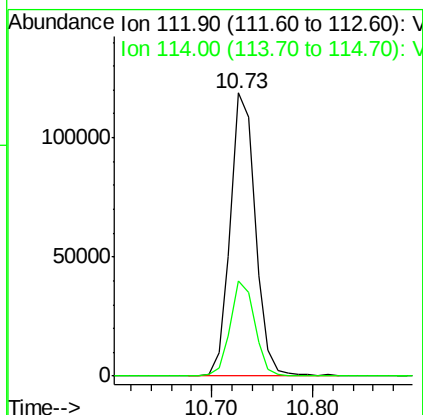
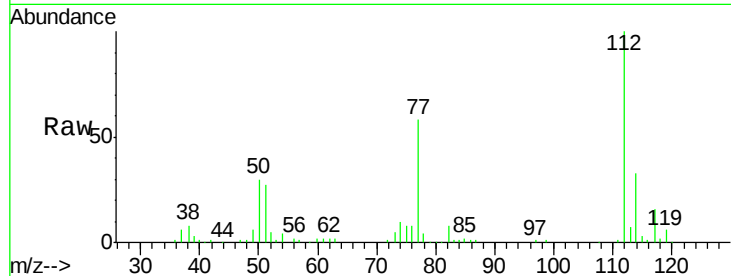




#65
Chlorobenzene
Concen: 14.810 ug/l
RT: 10.73 min Scan# 1067
Delta R.T. -0.00 min
Lab File: VD058381.D
Acq: 24 Jun 2018 19:39

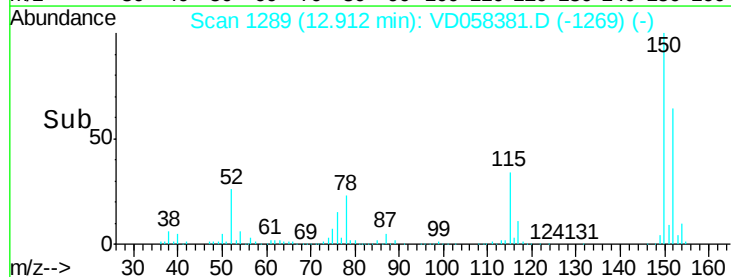
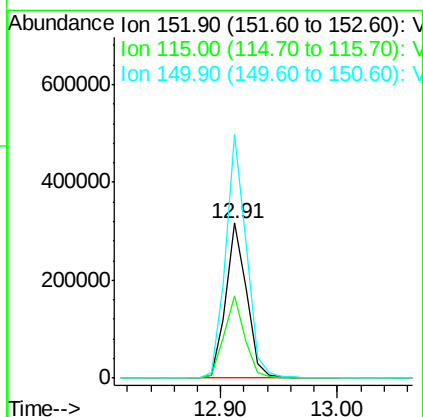
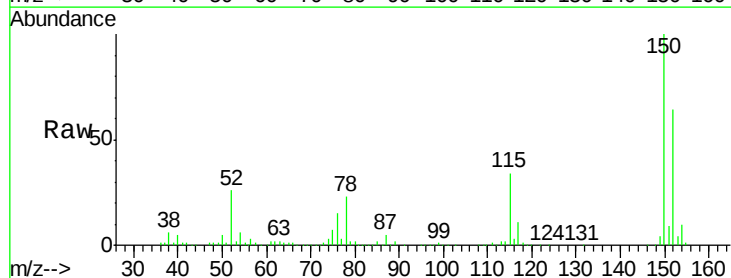
Instrument :
MSVOA_D
ClientSampleId :

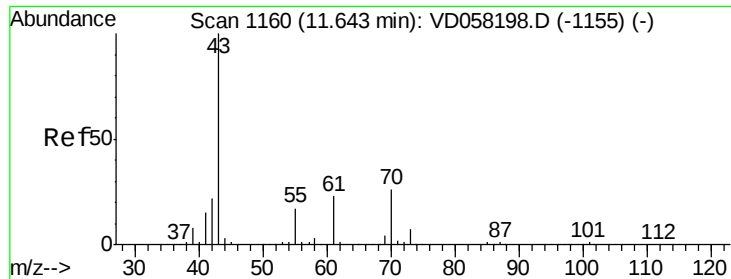
Tot Ion:112 Resp: 204505
Ion Ratio Lower Upper
112 100
114 33.4 25.0 37.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. -0.00 min
Lab File: VD058381.D
Acq: 24 Jun 2018 19:39

Tgt Ion:152 Resp: 395360
Ion Ratio Lower Upper
152 100
115 53.1 25.1 75.3
150 156.9 0.0 308.8





#74

N-amvl acetate

Concen: 1.319 ug/l

RT: 11.59 min Scan# 1155

Delta R.T. -0.05 min

Lab File: VD058381.D

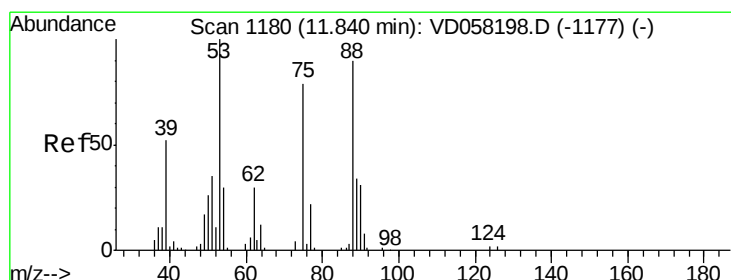
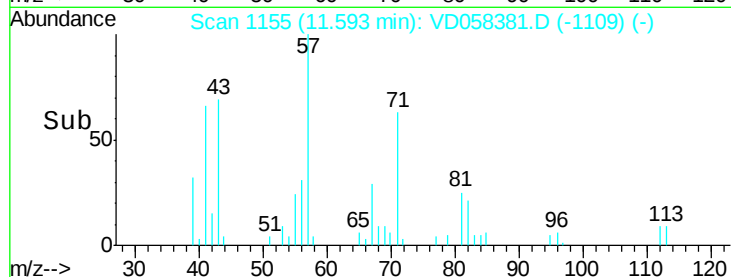
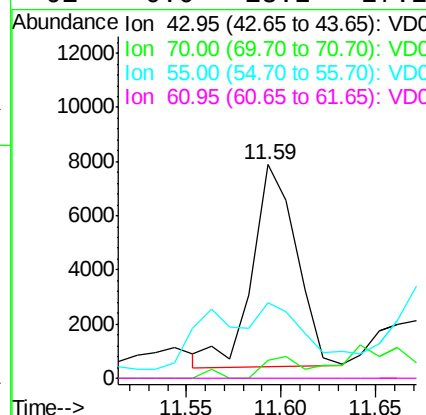
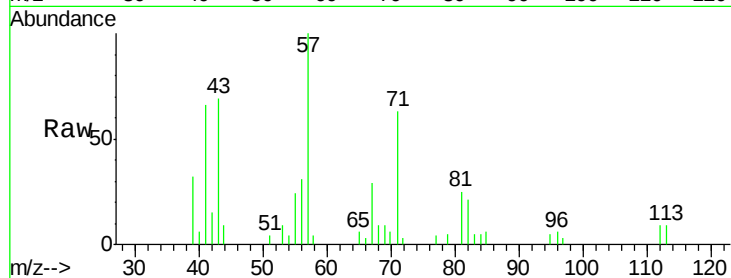
Acq: 24 Jun 2018 19:39

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion:	43	Resp:	12063
Ion	Ratio	Lower	Upper
43	100		
70	8.6	20.9	31.3#
55	35.4	13.5	20.3#
61	0.0	18.2	27.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 130.939 ug/l

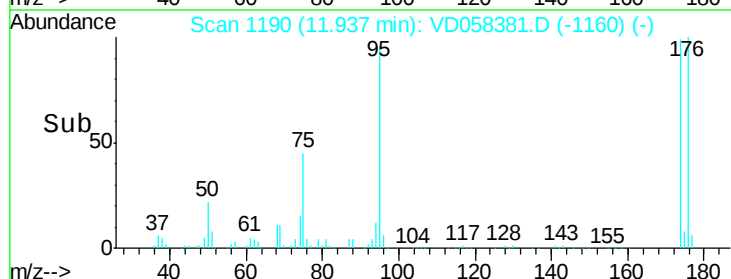
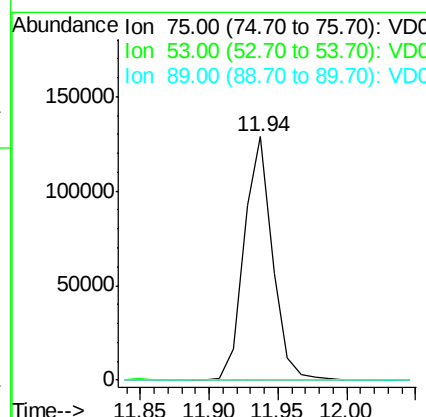
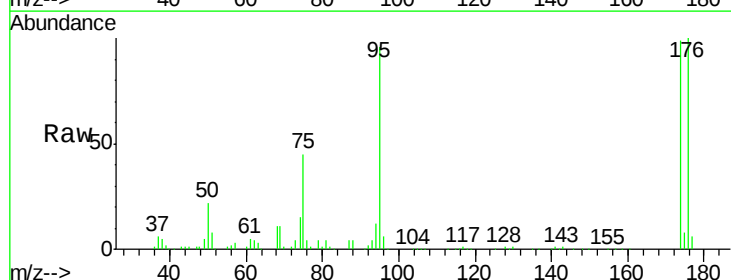
RT: 11.94 min Scan# 1190

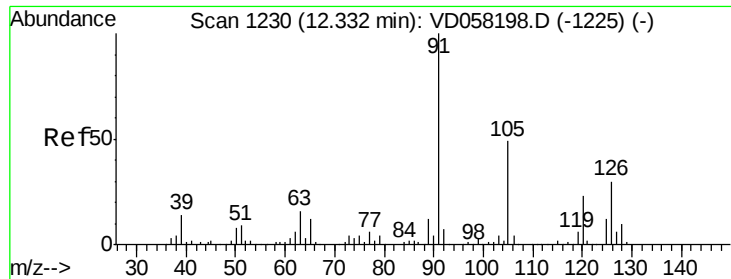
Delta R.T. 0.10 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Tgt Ion:	75	Resp:	184341
Ion	Ratio	Lower	Upper
75	100		
53	0.0	100.8	151.2#
89	0.0	34.6	52.0#

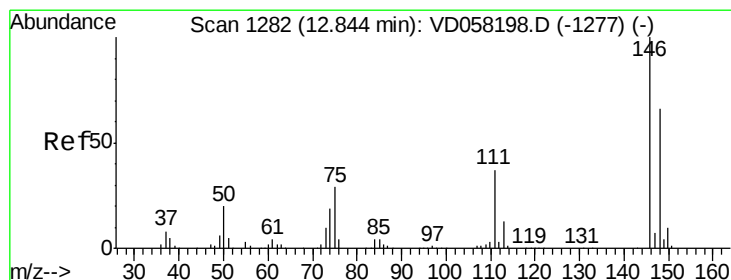
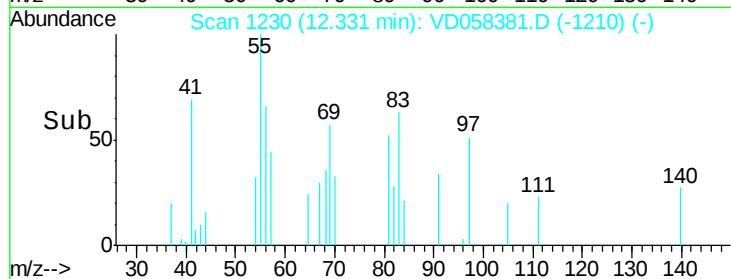
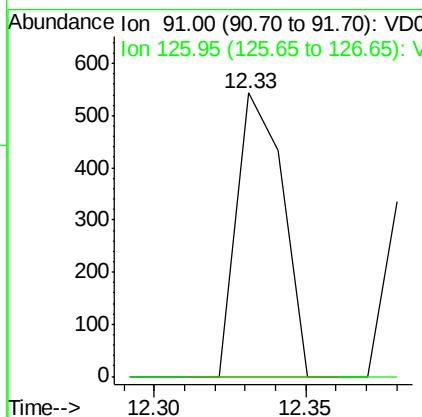
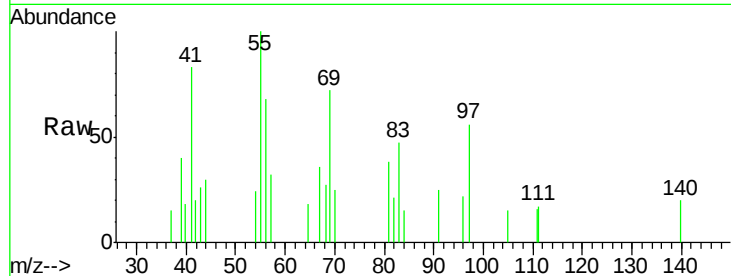




#82
 4-Chlorotoluene
 Concen: Below Cal
 RT: 12.33 min Scan# 1230
 Delta R.T. 0.00 min
 Lab File: VD058381.D
 Acq: 24 Jun 2018 19:39

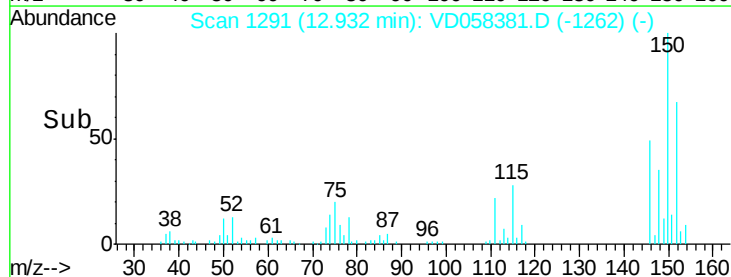
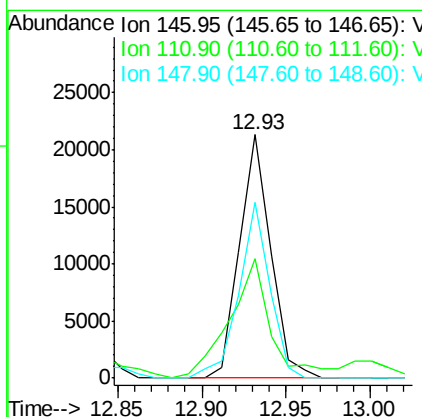
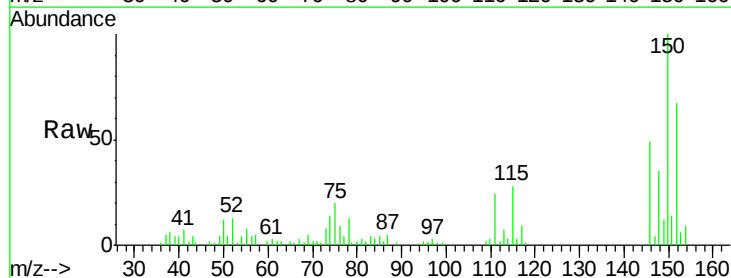
Instrument :
 MSVOA_D
 ClientSampleId :

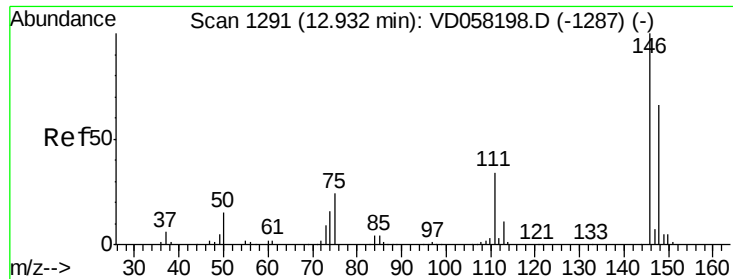
Tot Ion: 91 Resp: 577
 Ion Ratio Lower Upper
 91 100
 126 0.0 14.9 44.9#



#87
 1,3-Dichlorobenzene
 Concen: 2.221 ug/l
 RT: 12.93 min Scan# 1291
 Delta R.T. 0.09 min
 Lab File: VD058381.D
 Acq: 24 Jun 2018 19:39

Tgt Ion: 146 Resp: 27340
 Ion Ratio Lower Upper
 146 100
 111 49.2 18.4 55.0
 148 72.2 32.8 98.4





#88

1,4-Dichlorobenzene

Concen: 2.275 ug/l

RT: 12.93 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

Instrument :

MSVOA_D

ClientSampled :

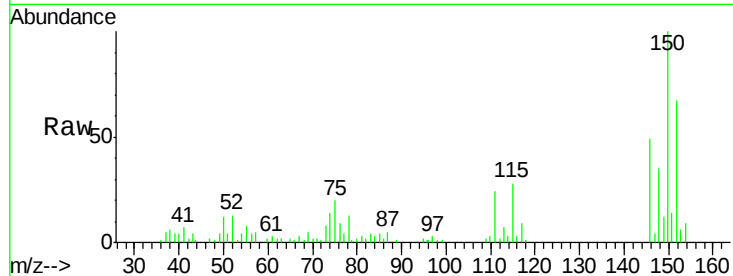
Tot Ion:146 Resp: 27340

Ion Ratio Lower Upper

146 100

111 49.2 17.2 51.5

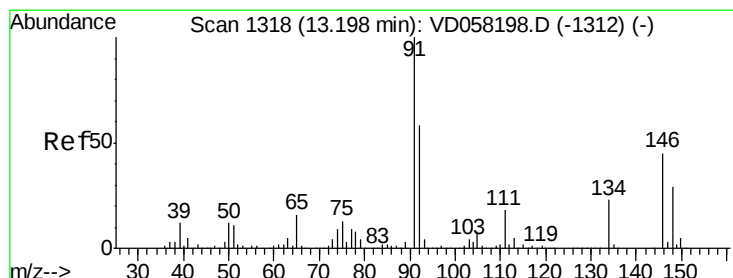
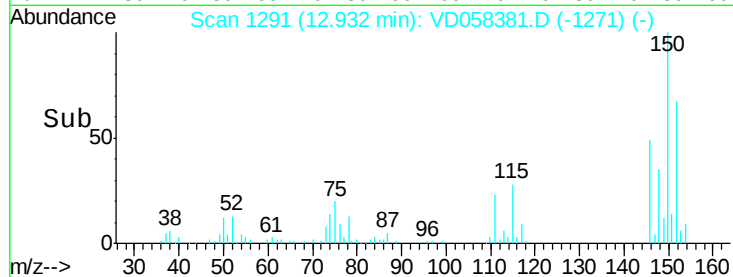
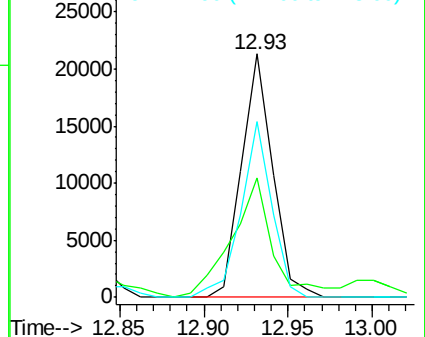
148 72.2 33.1 99.3



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



#91

1,2-Dichlorobenzene

Concen: 2.651 ug/l

RT: 13.20 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VD058381.D

Acq: 24 Jun 2018 19:39

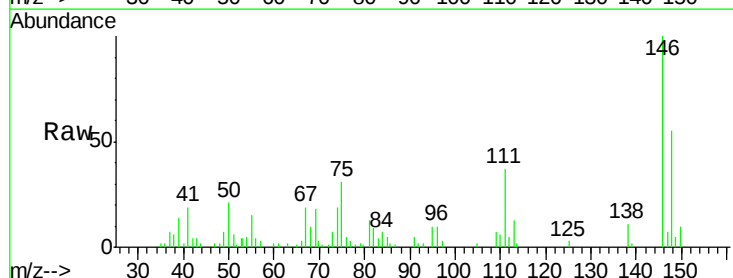
Tgt Ion:146 Resp: 27763

Ion Ratio Lower Upper

146 100

111 36.6 19.6 58.7

148 54.6 32.0 96.2



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

