

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062118\
 Data File : VD058255.D
 Acq On : 21 Jun 2018 16:31
 Operator : VA/AP
 Sample : J3603-05RE
 Misc : 6.04g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 26KV-TP-3RE

Quant Time: Jun 22 06:15:56 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	10499	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.70	114	16814	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.70	117	15021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	7009	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	9679	91.27	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	182.54%	
35) Dibromofluoromethane	5.56	113	5643	41.24	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	82.48%	
50) Toluene-d8	8.73	98	17428	52.64	ug/l	0.02
Spiked Amount				50.000		
			Recovery	=	105.28%	
62) 4-Bromofluorobenzene	11.94	95	6080	44.95	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	89.90%	

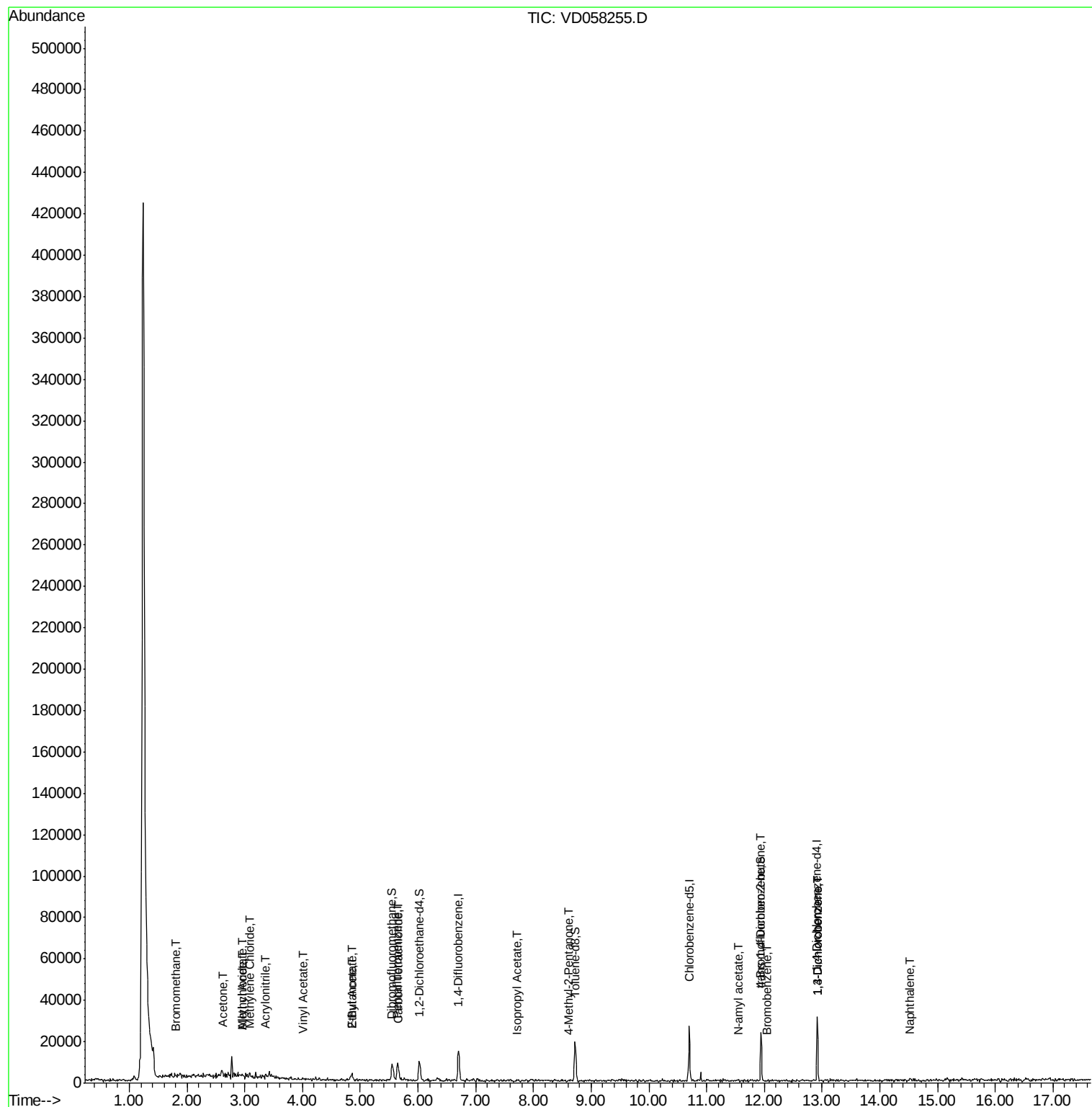
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.82	94	386	18.503	ug/l #	3
14) Allyl chloride	2.95	41	199	2.370	ug/l #	40
15) Acrylonitrile	3.36	53	210	22.644	ug/l #	14
16) Acetone	2.63	43	4592	316.627	ug/l #	62
18) Methyl Acetate	2.96	43	259	8.374	ug/l #	65
20) Methylene Chloride	3.07	84	426	7.170	ug/l #	62
23) Vinyl Acetate	4.01	43	202	1.130	ug/l #	82
25) 2-Butanone	4.85	43	631	19.962	ug/l #	60
37) Ethyl Acetate	4.85	43	631	6.658	ug/l #	72
38) Carbon Tetrachloride	5.67	117	206	1.246	ug/l #	11
43) Isopropyl Acetate	7.71	43	188	1.488	ug/l #	48
51) 4-Methyl-2-Pentanone	8.62	43	181	2.196	ug/l #	41
74) N-amyl acetate	11.54	43	196	1.209	ug/l #	53
77) Bromobenzene	12.05	156	183	1.458	ug/l #	1
81) trans-1,4-Dichloro-2-buten	11.94	75	3209	128.574	ug/l #	1
87) 1,3-Dichlorobenzene	12.93	146	341	1.563	ug/l #	25
88) 1,4-Dichlorobenzene	12.93	146	341	1.600	ug/l #	25
95) Naphthalene	14.53	128	744	3.180	ug/l #	70

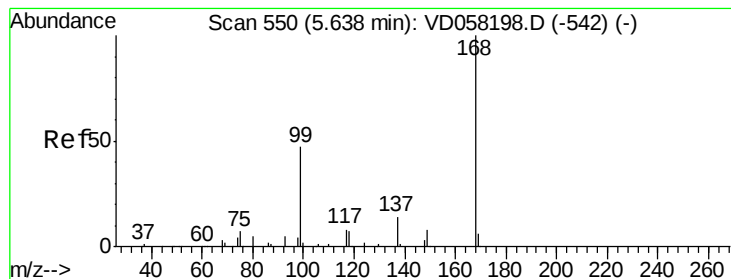
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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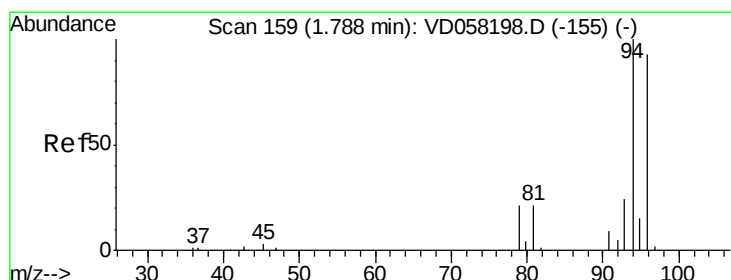
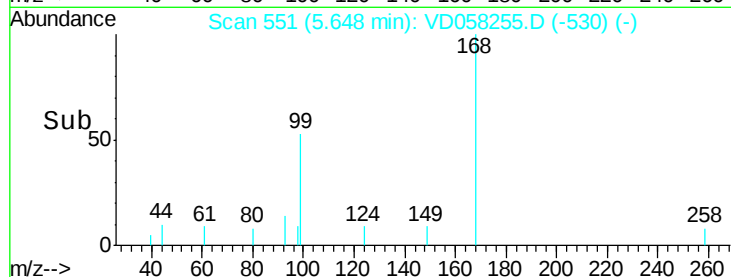
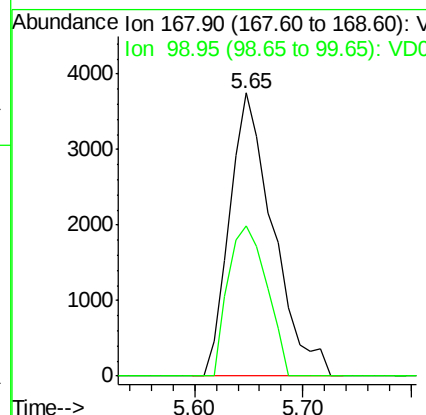
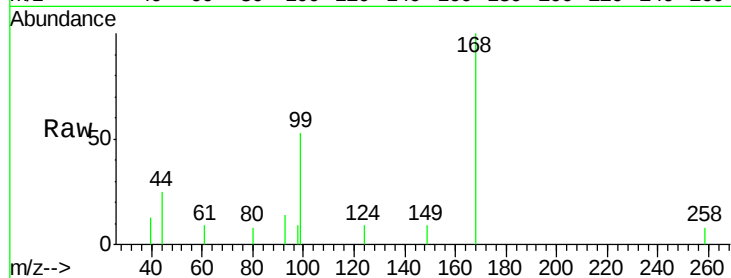




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 551
Delta R.T. 0.01 min
Lab File: VD058255.D
Acq: 21 Jun 2018 16:31

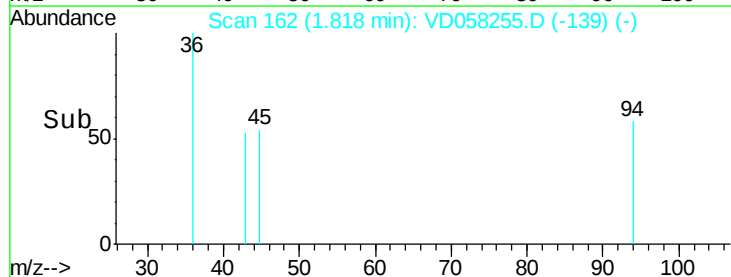
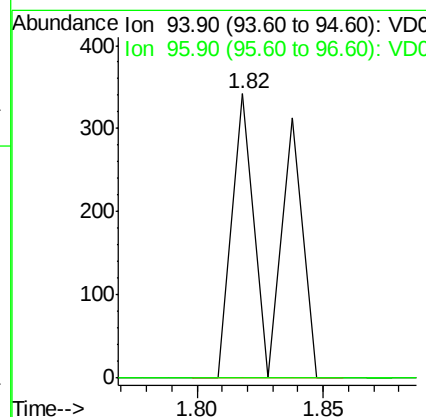
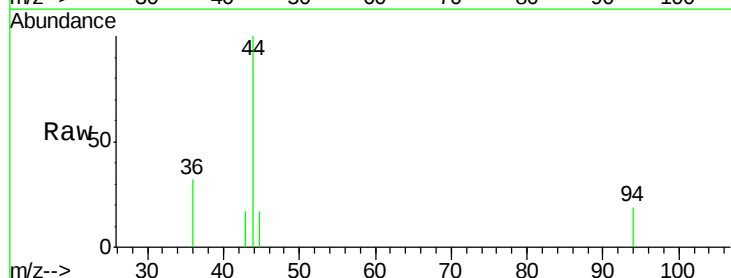
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-3RE

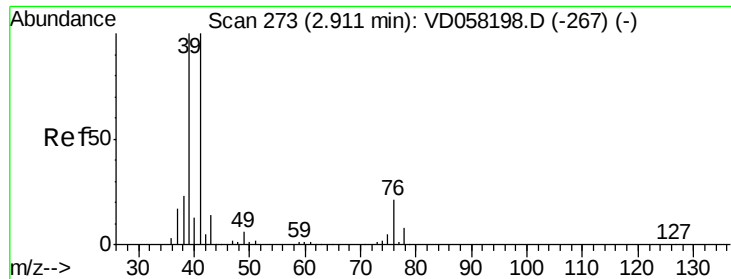
Tot Ion:168 Resp: 10499
Ion Ratio Lower Upper
168 100
99 52.9 41.1 61.7



#5
Bromomethane
Concen: 18.503 ug/l
RT: 1.82 min Scan# 162
Delta R.T. 0.03 min
Lab File: VD058255.D
Acq: 21 Jun 2018 16:31

Tgt Ion: 94 Resp: 386
Ion Ratio Lower Upper
94 100
96 0.0 74.2 111.2#

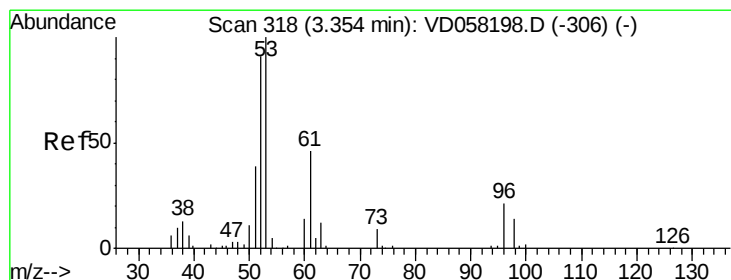
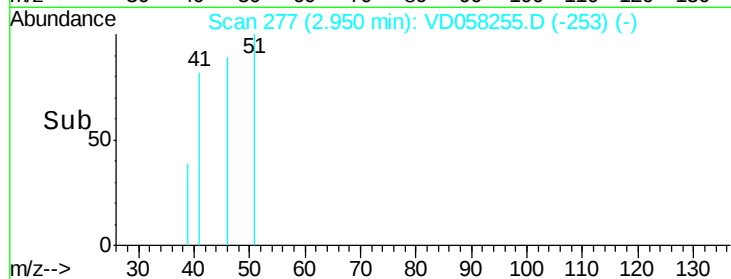
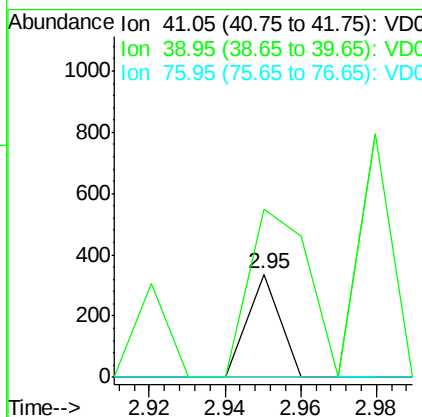
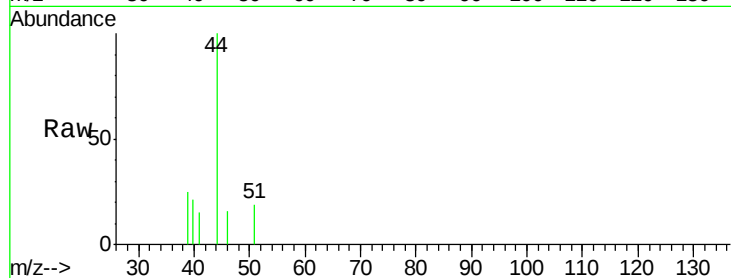




#14
Allvl chloride
Concen: 2.370 ug/l
RT: 2.95 min Scan# 277
Delta R.T. 0.04 min
Lab File: VD058255.D
Acq: 21 Jun 2018 16:31

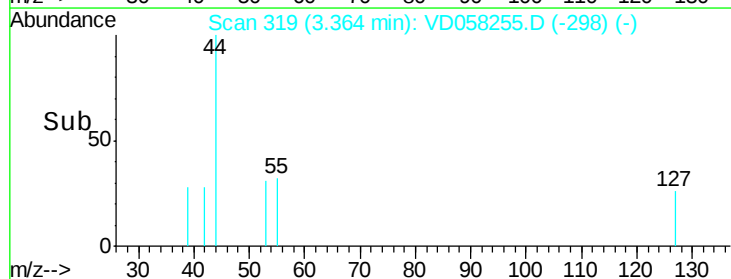
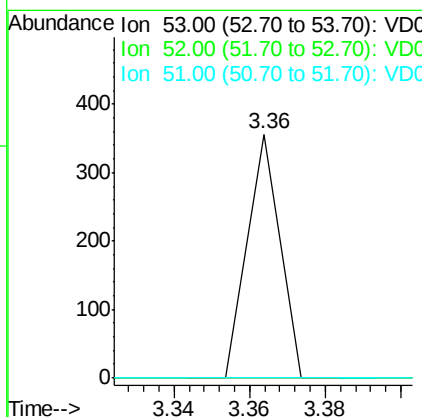
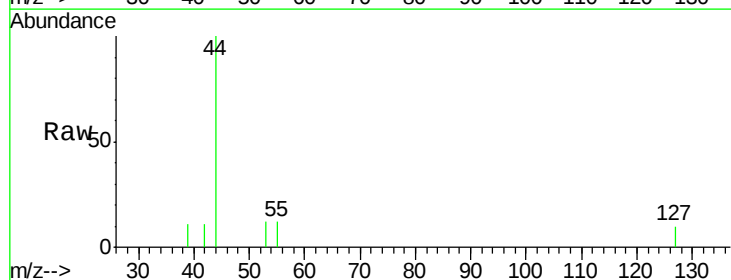
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-3RE

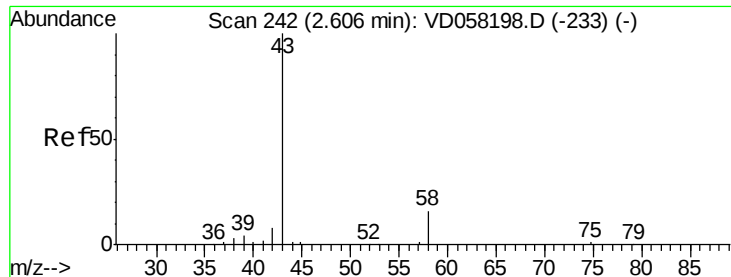
Tot Ion: 41 Resp: 199
Ion Ratio Lower Upper
41 100
39 163.2 80.1 120.1#
76 0.0 19.4 29.2#



#15
Acrylonitrile
Concen: 22.644 ug/l
RT: 3.36 min Scan# 319
Delta R.T. 0.01 min
Lab File: VD058255.D
Acq: 21 Jun 2018 16:31

Tgt Ion: 53 Resp: 210
Ion Ratio Lower Upper
53 100
52 0.0 72.6 108.8#
51 0.0 32.2 48.4#





#16

Acetone

Concen: 316.627 ug/l

RT: 2.63 min Scan# 244

Delta R.T. 0.02 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

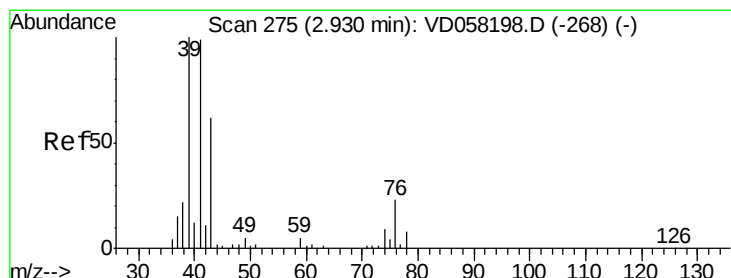
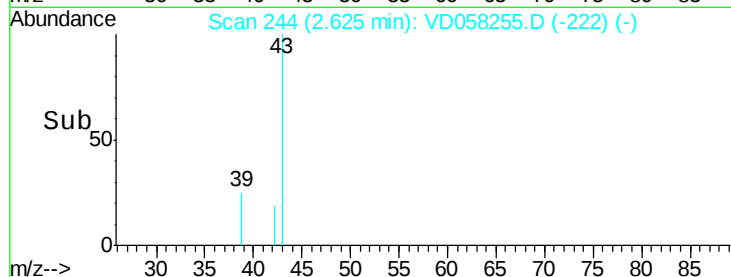
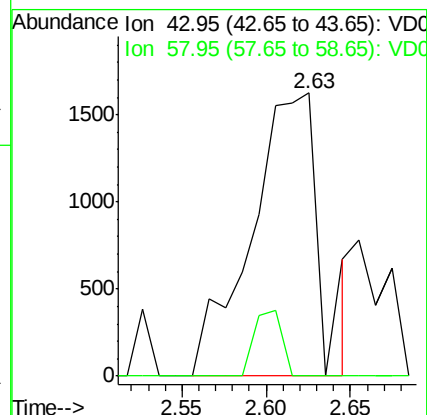
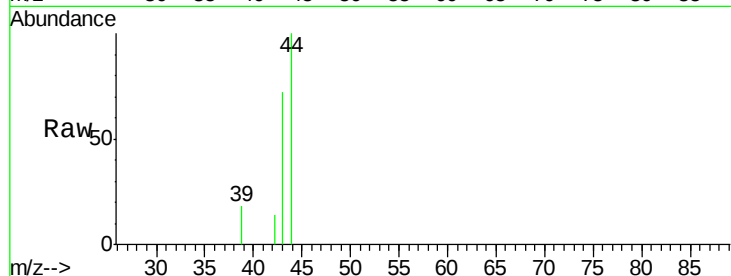
26KV-TP-3RE

Tot Ion: 43 Resp: 4592

Ion Ratio Lower Upper

43 100

58 0.0 12.7 19.1#



#18

Methyl Acetate

Concen: 8.374 ug/l

RT: 2.96 min Scan# 278

Delta R.T. 0.03 min

Lab File: VD058255.D

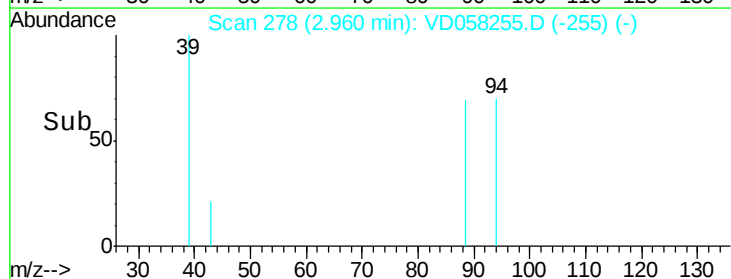
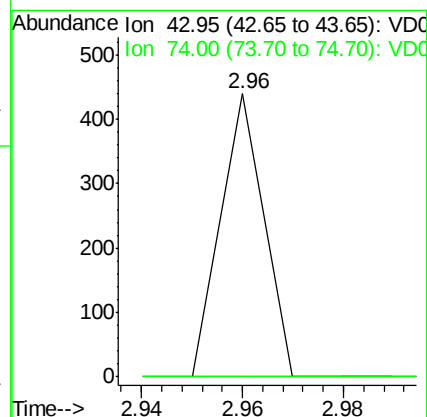
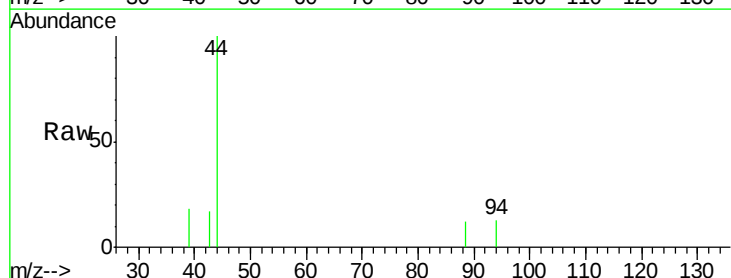
Acq: 21 Jun 2018 16:31

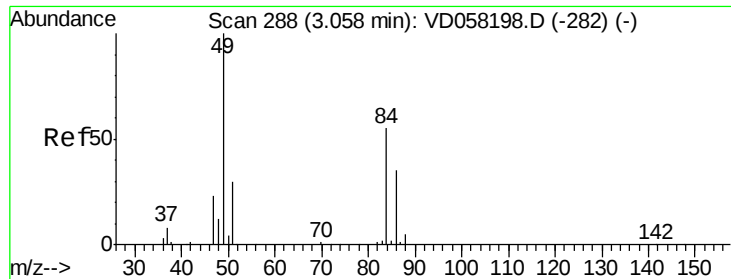
Tgt Ion: 43 Resp: 259

Ion Ratio Lower Upper

43 100

74 0.0 11.7 17.5#

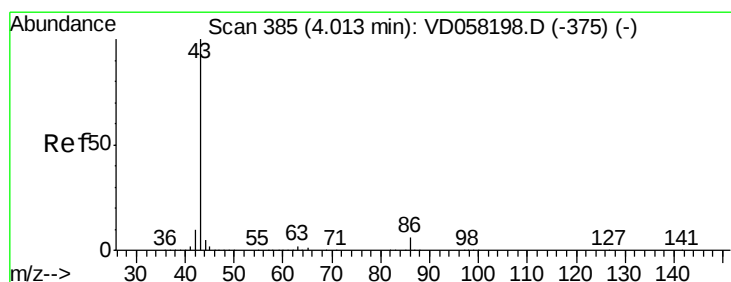
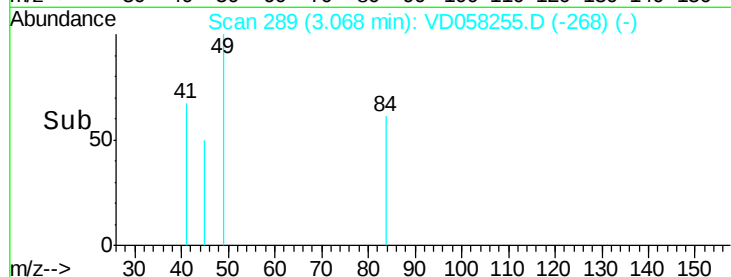
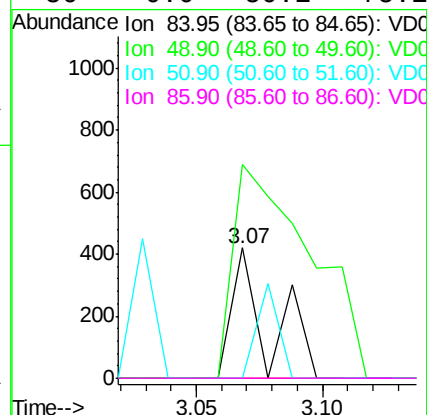
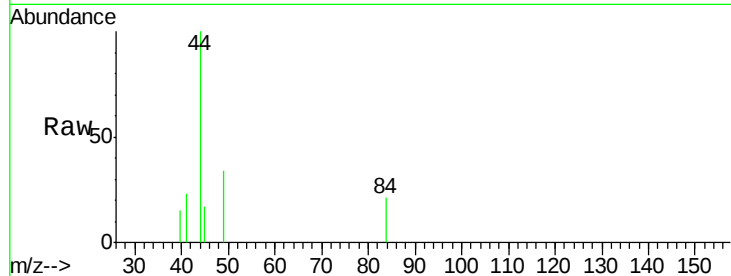




#20
Methvlene Chloride
Concen: 7.170 ug/l
RT: 3.07 min Scan# 289
Delta R.T. 0.01 min
Lab File: VD058255.D
Acq: 21 Jun 2018 16:31

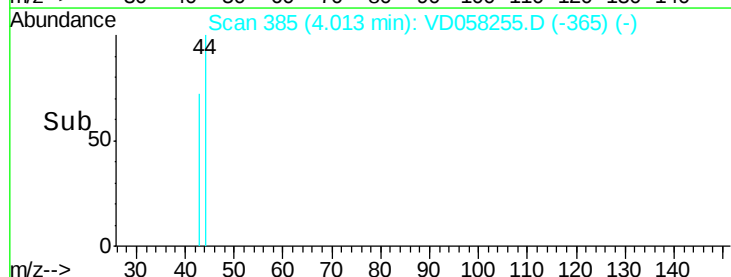
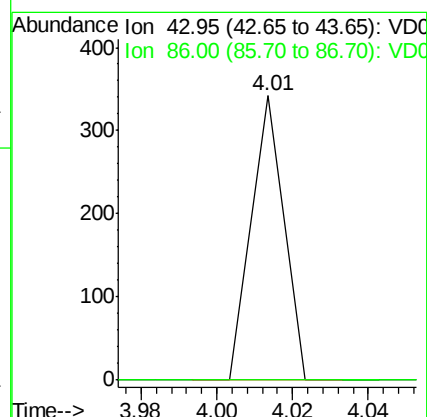
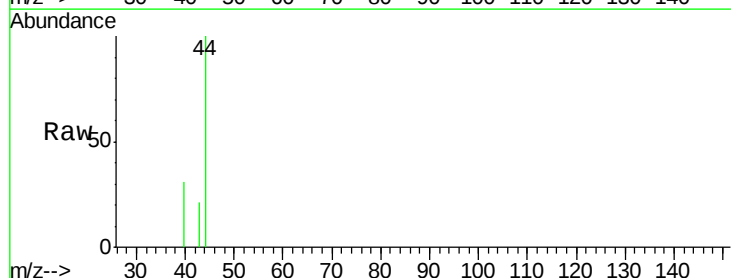
Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-3RE

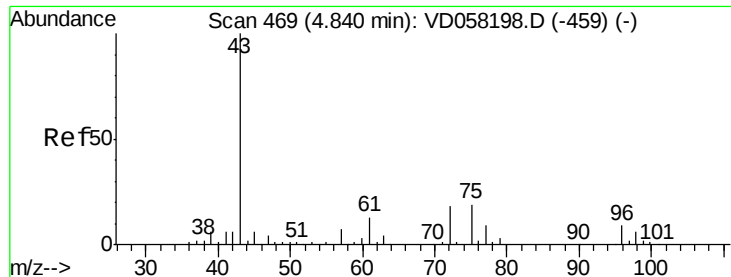
Tot Ion: 84 Resp: 426
Ion Ratio Lower Upper
84 100
49 164.0 145.0 217.6
51 0.0 42.9 64.3#
86 0.0 50.1 75.1#



#23
Vinyl Acetate
Concen: 1.130 ug/l
RT: 4.01 min Scan# 385
Delta R.T. 0.00 min
Lab File: VD058255.D
Acq: 21 Jun 2018 16:31

Tgt Ion: 43 Resp: 202
Ion Ratio Lower Upper
43 100
86 0.0 5.0 7.4#





#25

2-Butanone

Concen: 19.962 ug/l

RT: 4.85 min Scan# 470

Delta R.T. 0.01 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

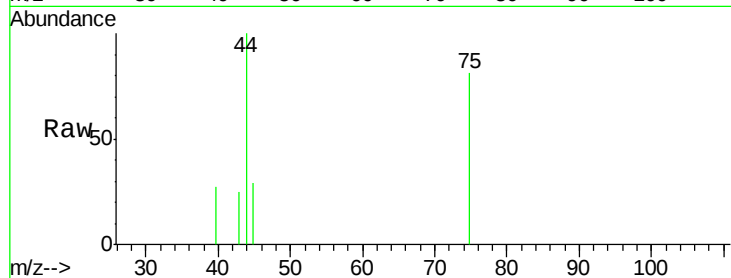
26KV-TP-3RE

Tot Ion: 43 Resp: 631

Ion Ratio Lower Upper

43 100

72 0.0 14.1 21.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

4.85

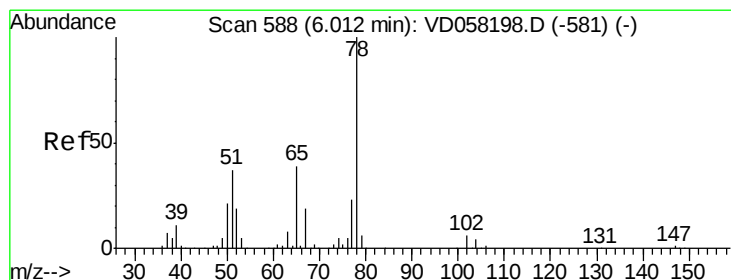
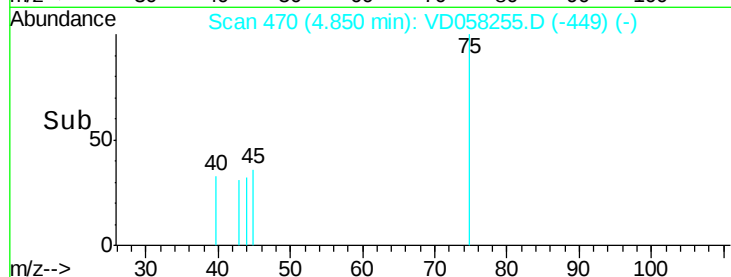
300

200

100

0

Time--> 4.82 4.84 4.86 4.88 4.90



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058255.D

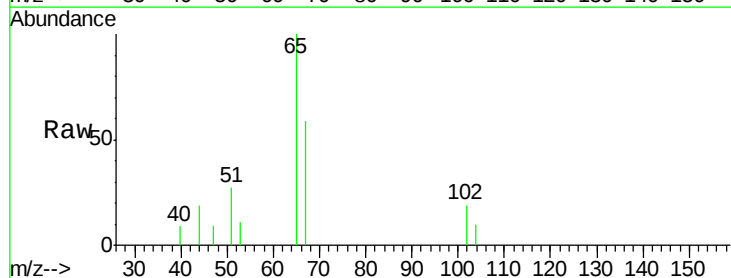
Acq: 21 Jun 2018 16:31

Tgt Ion: 65 Resp: 9679

Ion Ratio Lower Upper

65 100

67 59.0 0.0 97.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.02

4000

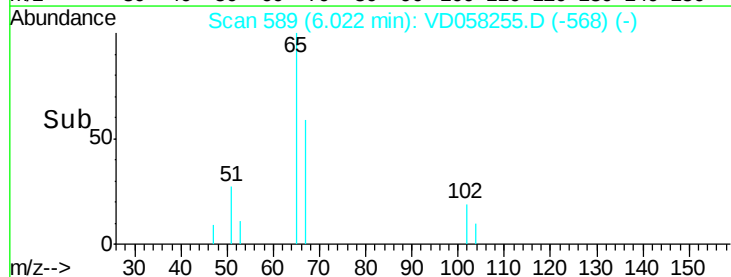
3000

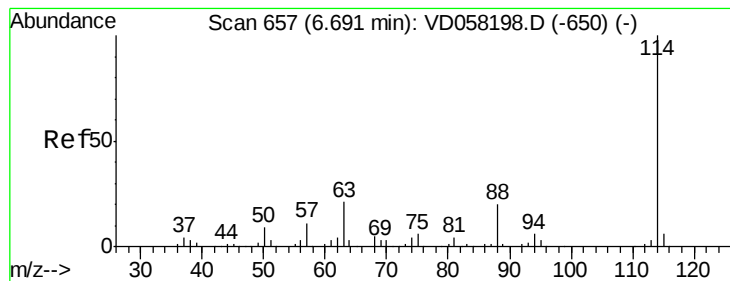
2000

1000

0

Time--> 5.95 6.00 6.05 6.10





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.70 min Scan# 658

Delta R.T. 0.01 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-3RE

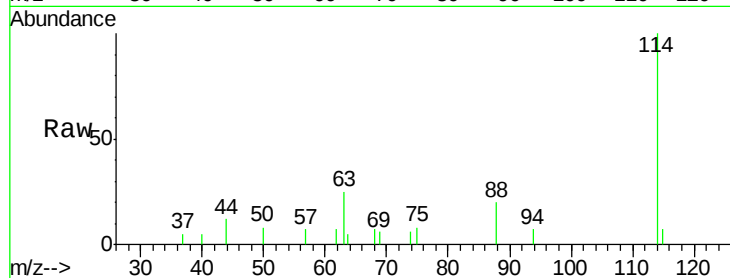
Tot Ion:114 Resp: 16814

Ion Ratio Lower Upper

114 100

63 24.6 0.0 42.6

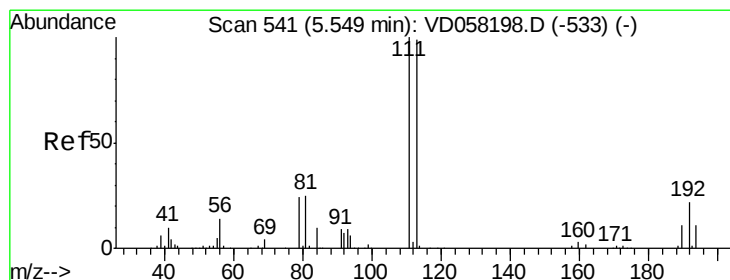
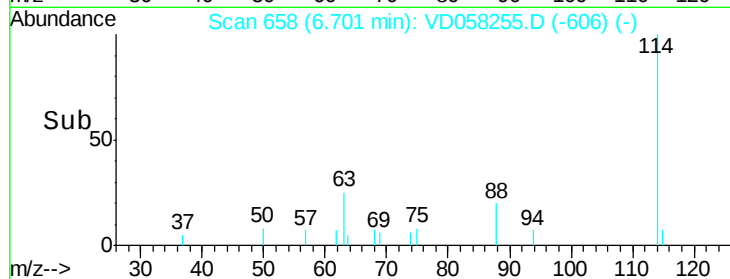
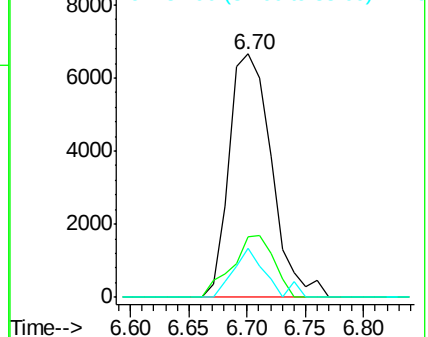
88 20.2 0.0 40.6



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: 5.56 min Scan# 542

Delta R.T. 0.01 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

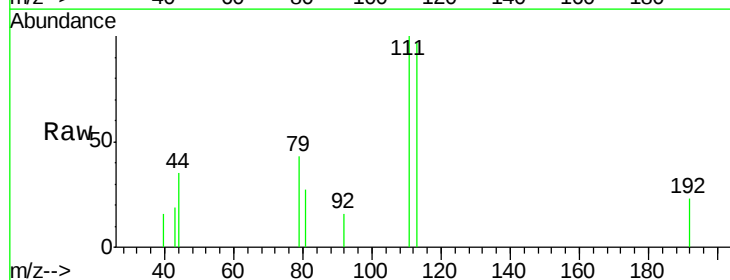
Tgt Ion:113 Resp: 5643

Ion Ratio Lower Upper

113 100

111 103.5 80.6 121.0

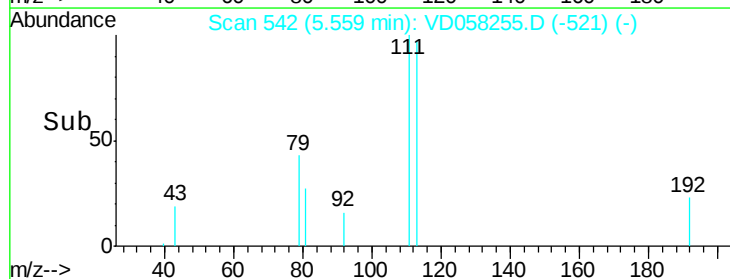
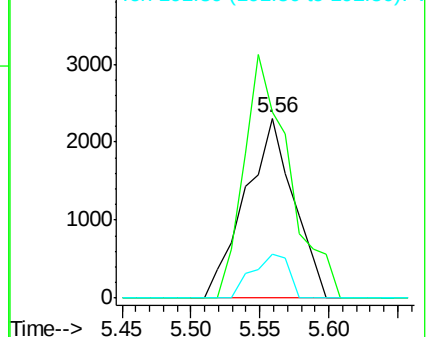
192 24.1 17.8 26.6

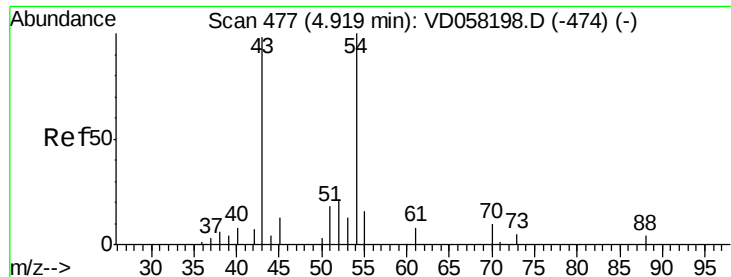


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#37

Ethyl Acetate

Concen: 6.658 ug/l

RT: 4.85 min Scan# 470

Delta R.T. -0.07 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

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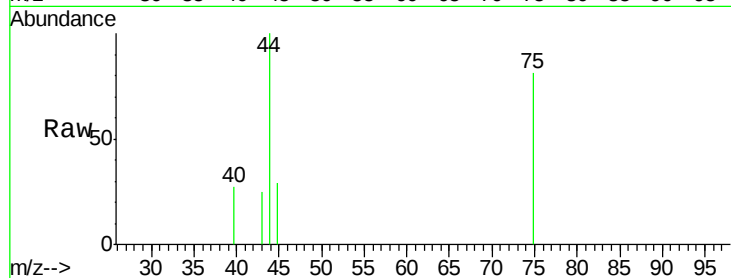
Tot Ion: 43 Resp: 631

Ion Ratio Lower Upper

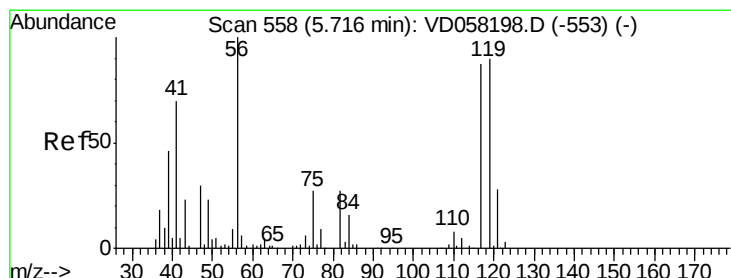
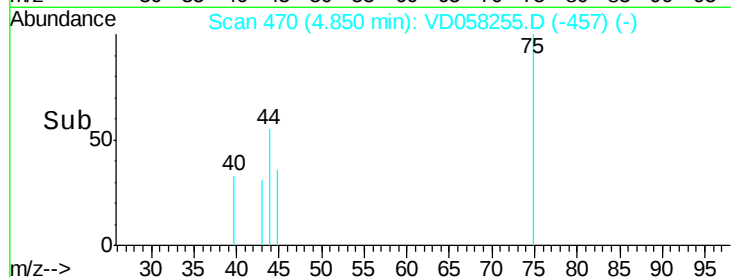
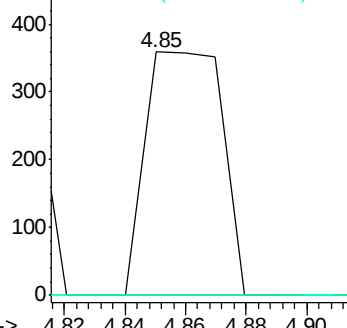
43 100

61 0.0 10.3 15.5#

70 0.0 5.7 8.5#



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



#38

Carbon Tetrachloride

Concen: 1.246 ug/l

RT: 5.67 min Scan# 553

Delta R.T. -0.05 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

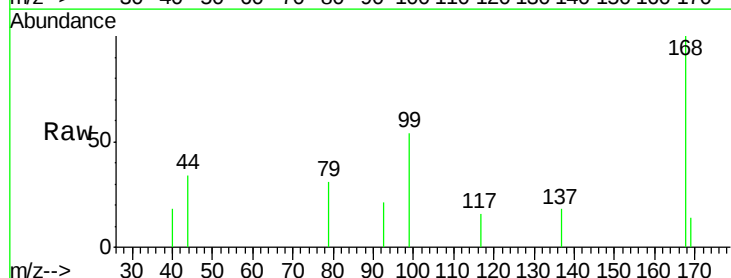
Tgt Ion: 117 Resp: 206

Ion Ratio Lower Upper

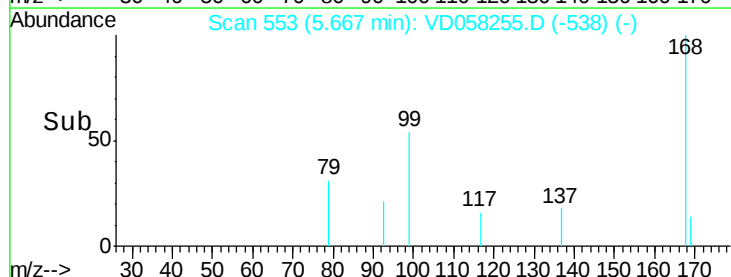
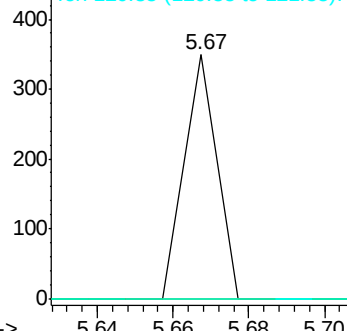
117 100

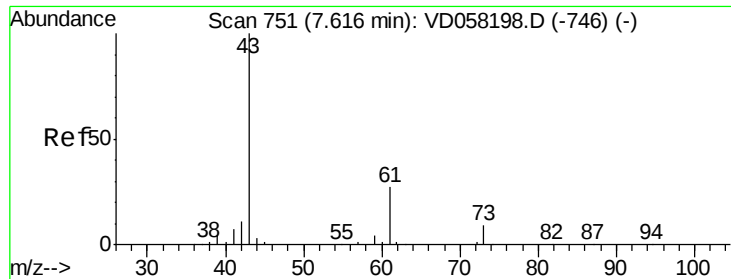
119 0.0 78.8 118.2#

121 0.0 25.0 37.6#



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





#43

Isopropyl Acetate

Concen: 1.488 ug/l

RT: 7.71 min Scan# 761

Delta R.T. 0.10 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-3RE

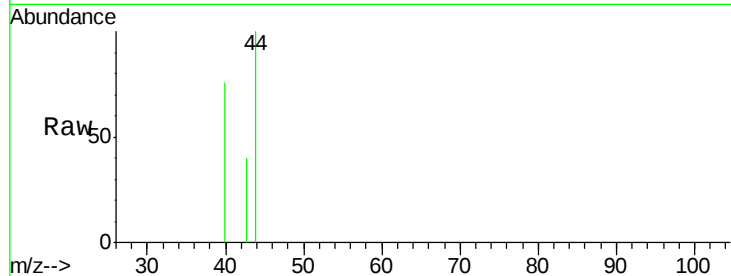
Tot Ion: 43 Resp: 188

Ion Ratio Lower Upper

43 100

61 0.0 21.8 32.6#

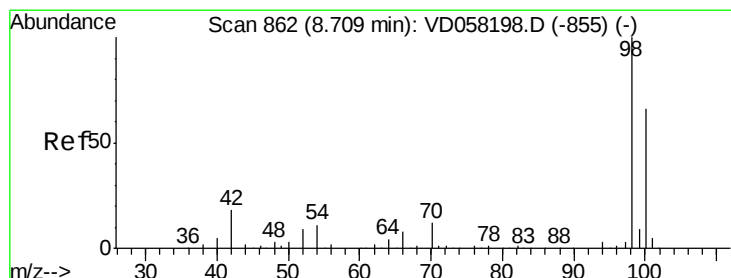
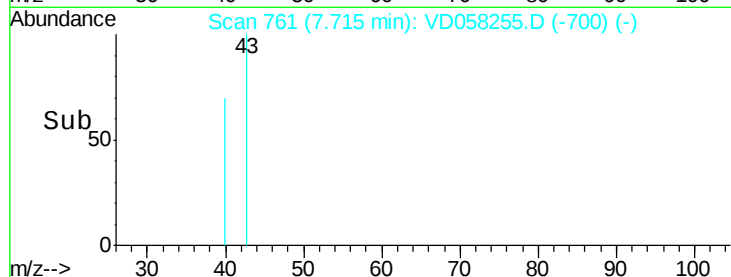
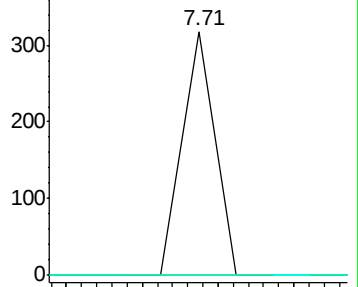
87 0.0 0.3 0.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 87.00 (86.70 to 87.70): VDC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 8.73 min Scan# 864

Delta R.T. 0.02 min

Lab File: VD058255.D

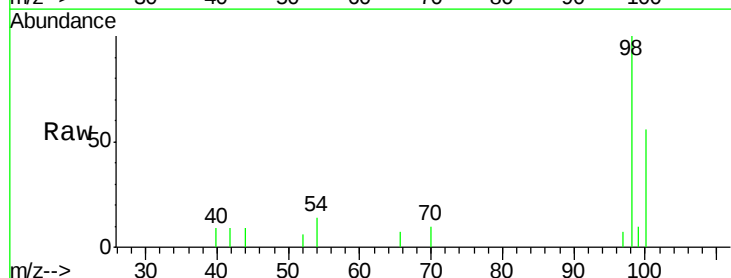
Acq: 21 Jun 2018 16:31

Tgt Ion: 98 Resp: 17428

Ion Ratio Lower Upper

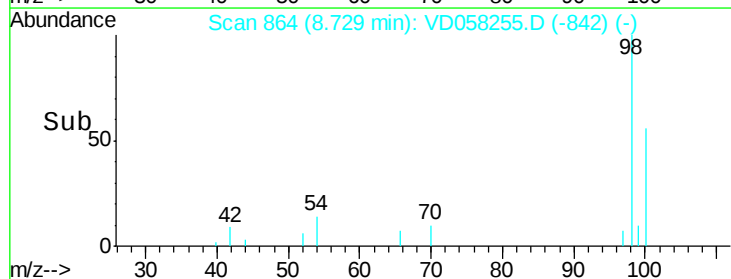
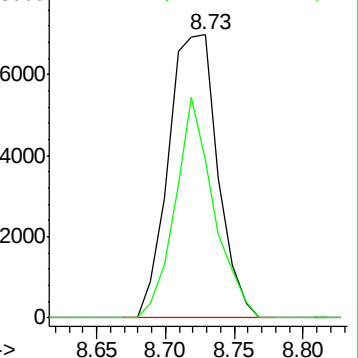
98 100

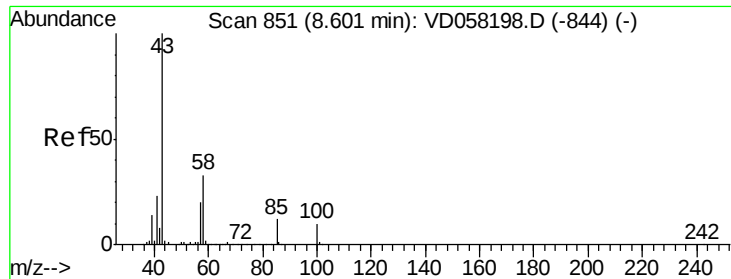
100 56.0 53.6 80.4



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: 2.196 ug/l

RT: 8.62 min Scan# 853

Delta R.T. 0.02 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

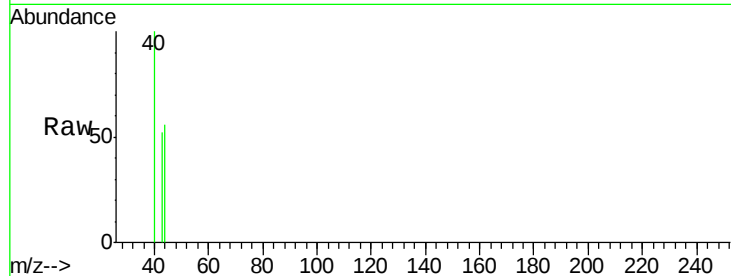
26KV-TP-3RE

Tot Ion: 43 Resp: 181

Ion Ratio Lower Upper

43 100

58 0.0 26.7 40.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

8.62

300

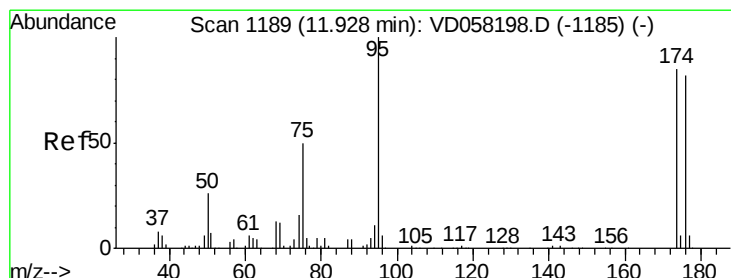
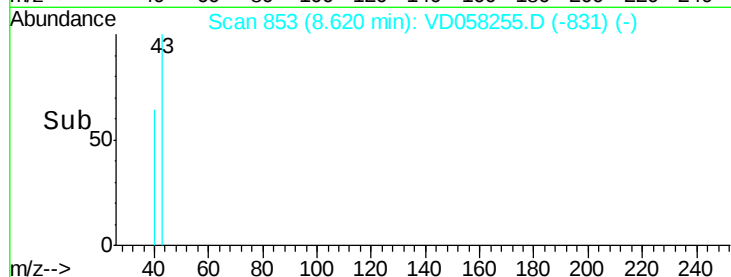
200

100

0

8.60 8.62 8.64

Time-->



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

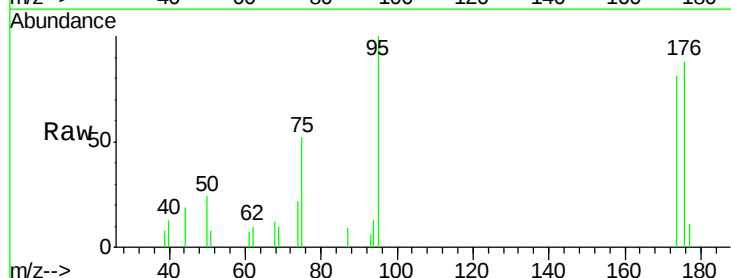
Tgt Ion: 95 Resp: 6080

Ion Ratio Lower Upper

95 100

174 81.4 0.0 170.2

176 88.4 0.0 164.6



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

6000

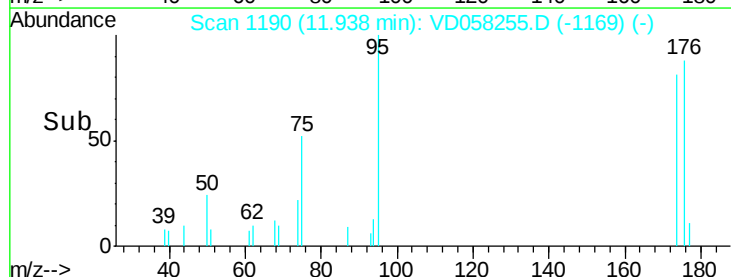
4000

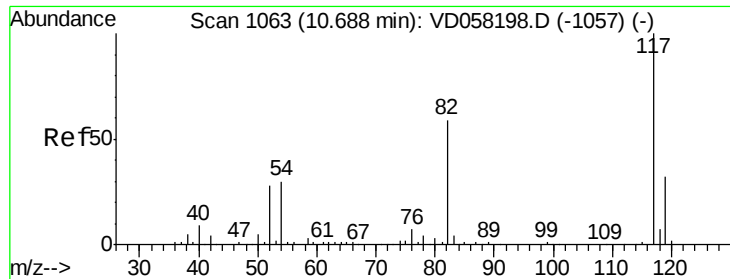
2000

0

11.90 11.94 11.98

Time-->

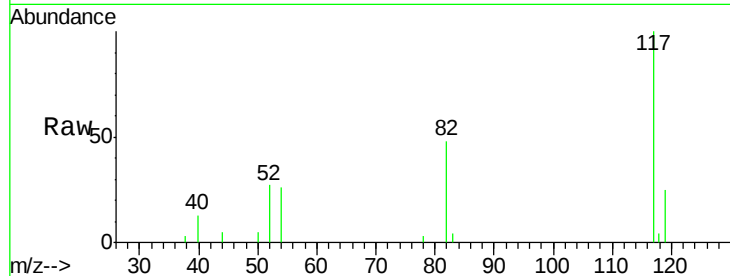




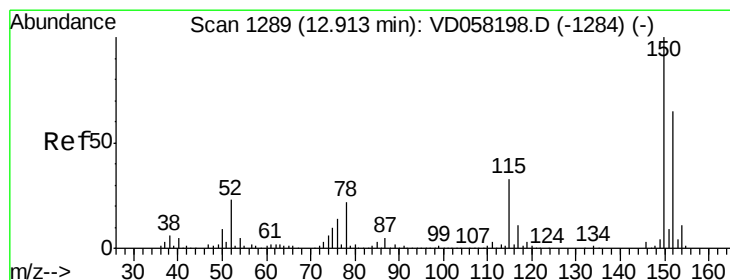
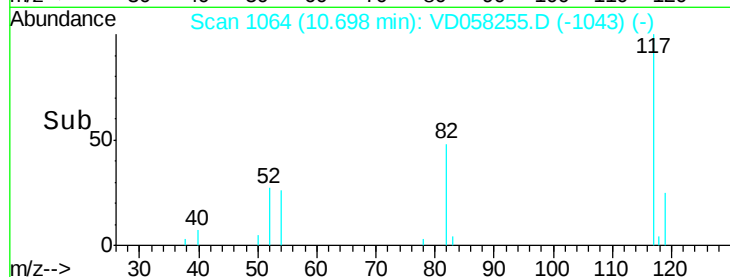
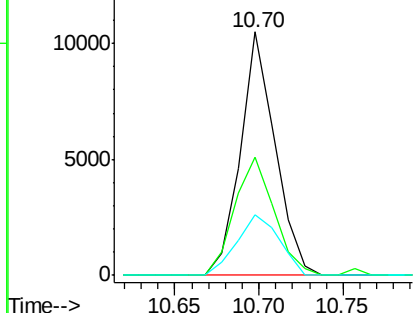
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058255.D
Acq: 21 Jun 2018 16:31

Instrument :
MSVOA_D
ClientSampleId :
26KV-TP-3RE

Tot Ion:117 Resp: 15021
Ion Ratio Lower Upper
117 100
82 48.4 47.0 70.6
119 24.8 25.3 37.9#

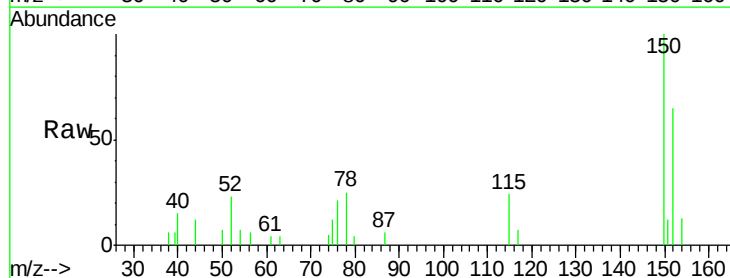


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

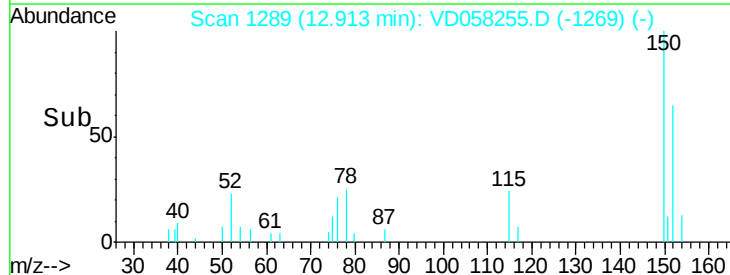
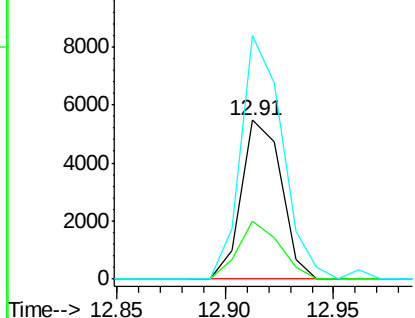


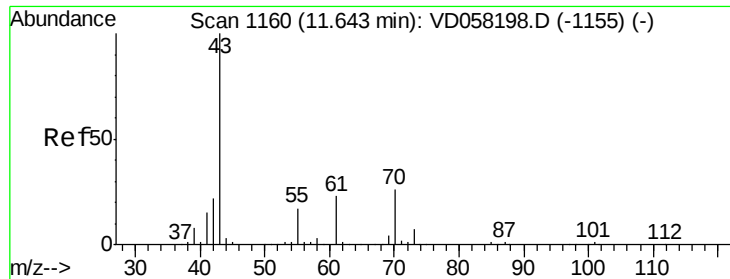
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.91 min Scan# 1289
Delta R.T. 0.00 min
Lab File: VD058255.D
Acq: 21 Jun 2018 16:31

Tgt Ion:152 Resp: 7009
Ion Ratio Lower Upper
152 100
115 36.3 25.1 75.3
150 153.3 0.0 308.8



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





#74

N-amvl acetate

Concen: 1.209 ug/l

RT: 11.54 min Scan# 1150

Delta R.T. -0.10 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-3RE

Tot Ion: 43 Resp: 196

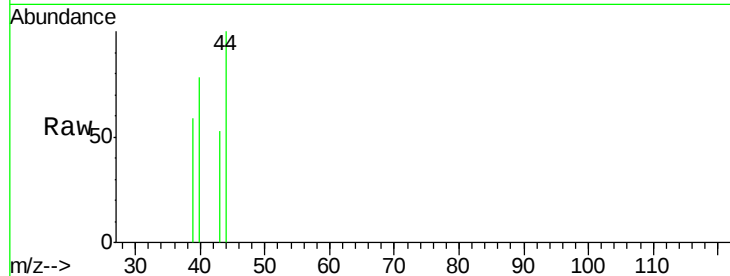
Ion Ratio Lower Upper

43 100

70 0.0 20.9 31.3#

55 0.0 13.5 20.3#

61 0.0 18.2 27.2#



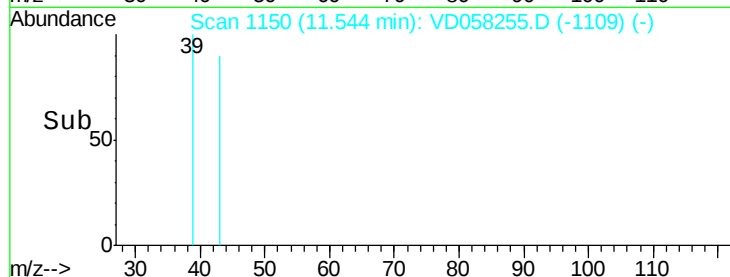
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

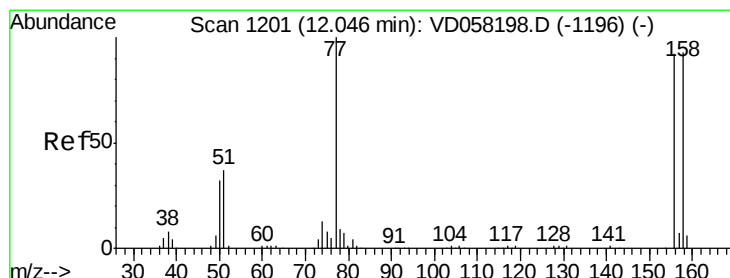
Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

Time-->



Time-->



#77

Bromobenzene

Concen: 1.458 ug/l

RT: 12.05 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

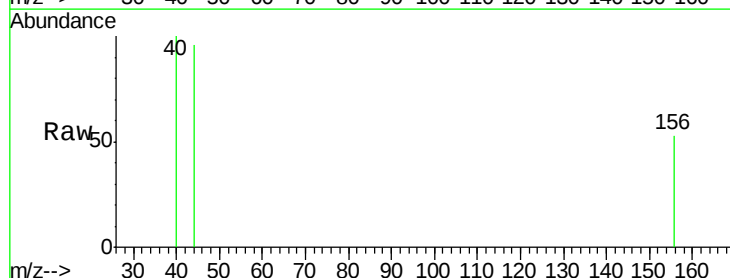
Tgt Ion: 156 Resp: 183

Ion Ratio Lower Upper

156 100

77 0.0 54.5 163.6#

158 0.0 50.8 152.5#

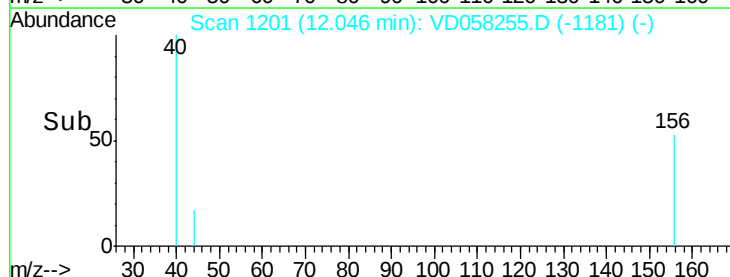


Abundance Ion 155.90 (155.60 to 156.60): V

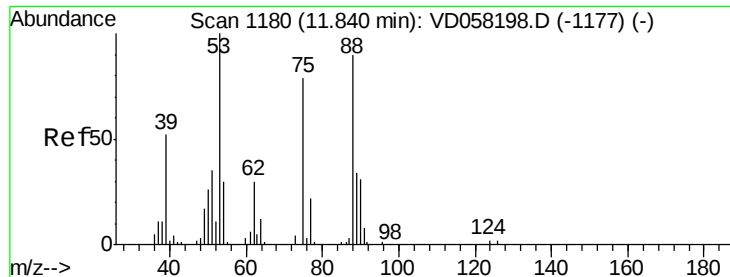
Ion 76.95 (76.65 to 77.65): VDC

Ion 157.85 (157.55 to 158.55): V

Time-->



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 128.574 ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-3RE

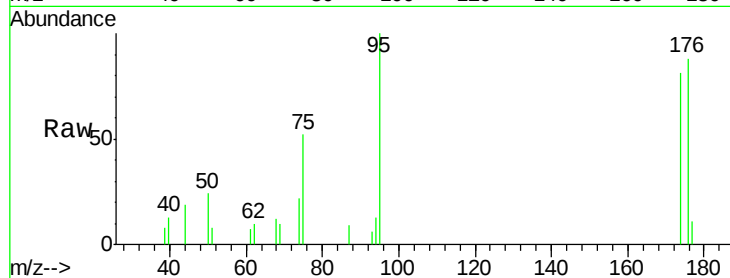
Tot Ion: 75 Resp: 3209

Ion Ratio Lower Upper

75 100

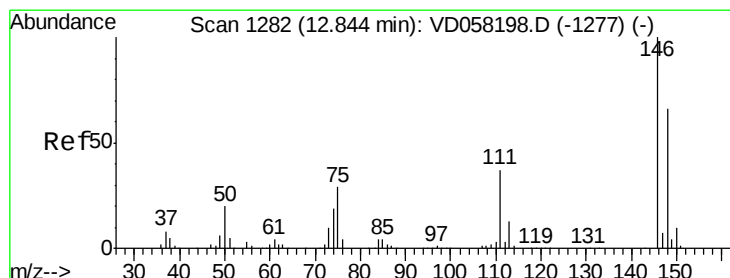
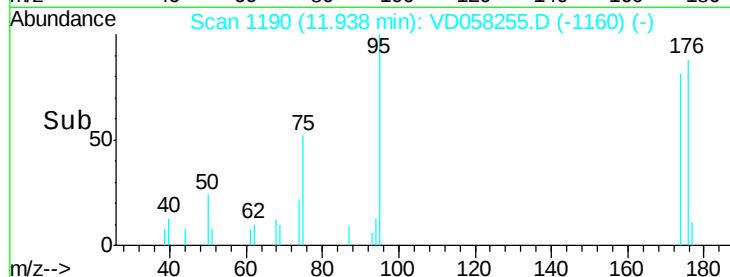
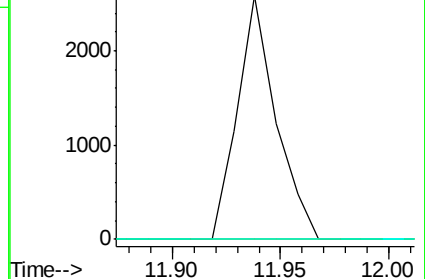
53 0.0 100.8 151.2#

89 0.0 34.6 52.0#



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

11.94



#87

1,3-Dichlorobenzene

Concen: 1.563 ug/l

RT: 12.93 min Scan# 1291

Delta R.T. 0.09 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

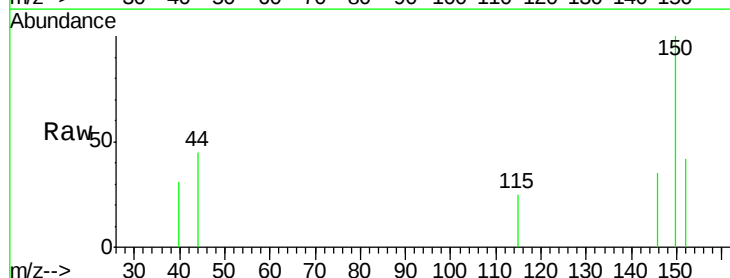
Tgt Ion: 146 Resp: 341

Ion Ratio Lower Upper

146 100

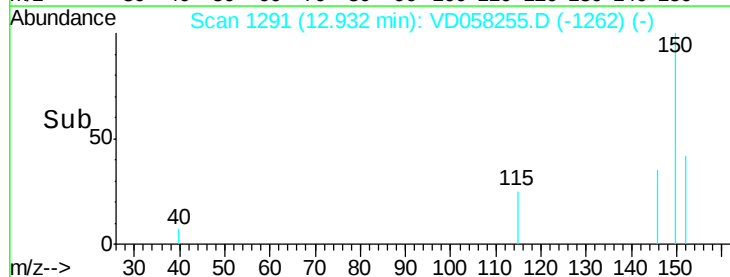
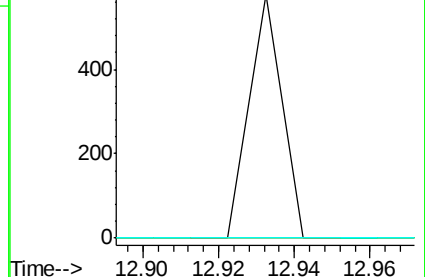
111 0.0 18.4 55.0#

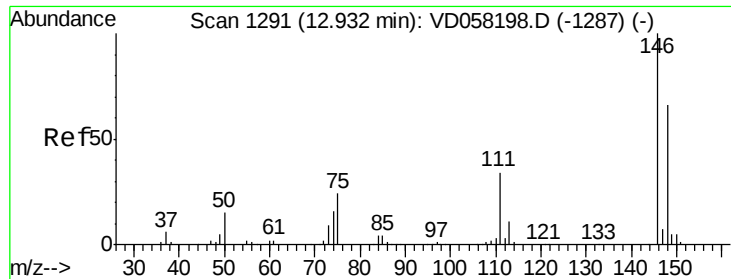
148 0.0 32.8 98.4#



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

12.93





#88

1,4-Dichlorobenzene

Concen: 1.600 ug/l

RT: 12.93 min Scan# 1291

Delta R.T. 0.00 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

Instrument :

MSVOA_D

ClientSampleId :

26KV-TP-3RE

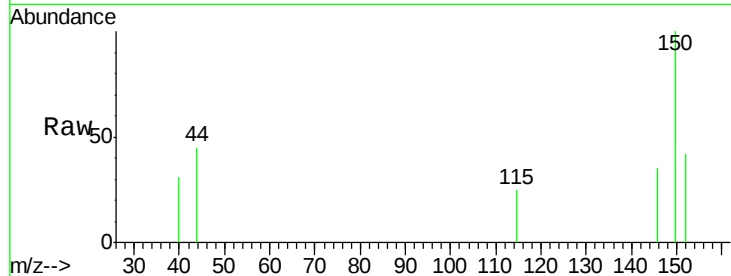
Tot Ion:146 Resp: 341

Ion Ratio Lower Upper

146 100

111 0.0 17.2 51.5#

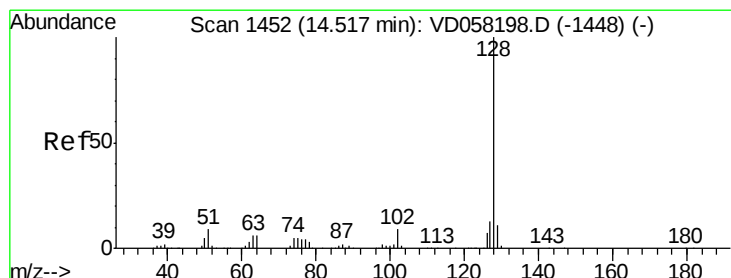
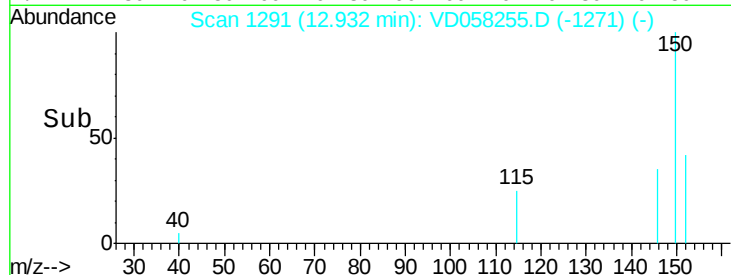
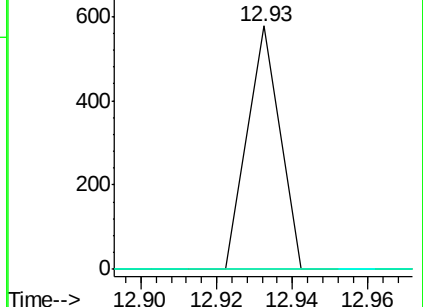
148 0.0 33.1 99.3#



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



#95

Naphthalene

Concen: 3.180 ug/l

RT: 14.53 min Scan# 1453

Delta R.T. 0.01 min

Lab File: VD058255.D

Acq: 21 Jun 2018 16:31

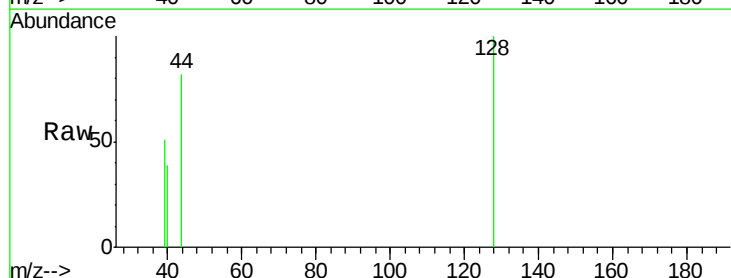
Tgt Ion:128 Resp: 744

Ion Ratio Lower Upper

128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



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

