

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013019\
 Data File : VD060807.D
 Acq On : 30 Jan 2019 15:57
 Operator : VA/AP
 Sample : K1282-17RE
 Misc : 5.59g/5ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5RE

Quant Time: Jan 31 05:02:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 29 13:53:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.82	168	9358	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	7.99	114	13517	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.16	117	11156	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.33	152	3781	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.22	65	7969	55.55	ug/l	0.00
Spiked Amount			Recovery	=	111.10%	
35) Dibromofluoromethane	6.70	113	5209	40.18	ug/l	0.03
Spiked Amount			Recovery	=	80.36%	
50) Toluene-d8	10.19	98	10940	36.14	ug/l	0.00
Spiked Amount			Recovery	=	72.28%	
62) 4-Bromofluorobenzene	13.35	95	3993	26.24	ug/l	0.00
Spiked Amount			Recovery	=	52.48%	

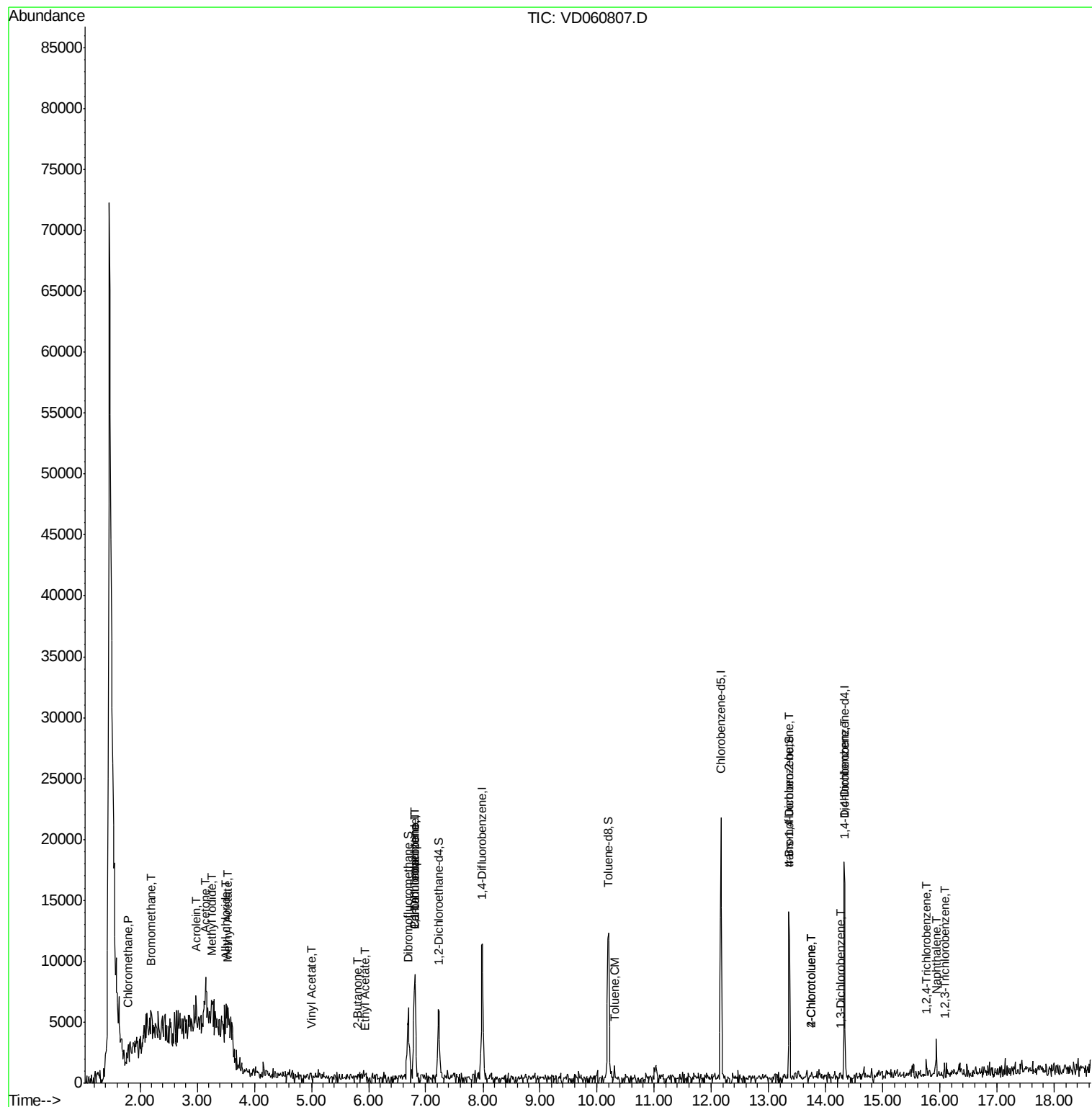
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.78	50	797	11.700	ug/l #	43
5) Bromomethane	2.18	94	1034	45.268	ug/l #	50
10) Methyl Iodide	3.26	142	476	6.303	ug/l #	20
13) Acrolein	2.98	56	267	95.791	ug/l	97
14) Allyl chloride	3.50	41	1035	9.022	ug/l #	56
16) Acetone	3.15	43	8735	421.548	ug/l #	88
18) Methyl Acetate	3.54	43	3006	73.178	ug/l #	63
23) Vinyl Acetate	5.00	43	200	1.175	ug/l #	82
25) 2-Butanone	5.81	43	184	6.938	ug/l #	59
36) 1,1-Dichloropropene	6.81	75	752	4.660	ug/l #	47
37) Ethyl Acetate	5.93	43	185	2.568	ug/l #	68
38) Carbon Tetrachloride	6.82	117	226	1.117	ug/l #	13
52) Toluene	10.30	92	211	1.044	ug/l #	63
79) 2-Chlorotoluene	13.75	91	405	1.755	ug/l #	45
81) trans-1,4-Dichloro-2-buten	13.35	75	2492	137.861	ug/l #	1
82) 4-Chlorotoluene	13.75	91	405	1.579	ug/l #	47
87) 1,3-Dichlorobenzene	14.26	146	213	1.537	ug/l #	22
88) 1,4-Dichlorobenzene	14.34	146	695	5.161	ug/l #	25
93) 1,2,4-Trichlorobenzene	15.76	180	351	3.523	ug/l #	64
95) Naphthalene	15.93	128	2224	14.530	ug/l #	81
96) 1,2,3-Trichlorobenzene	16.08	180	235	2.713	ug/l #	58

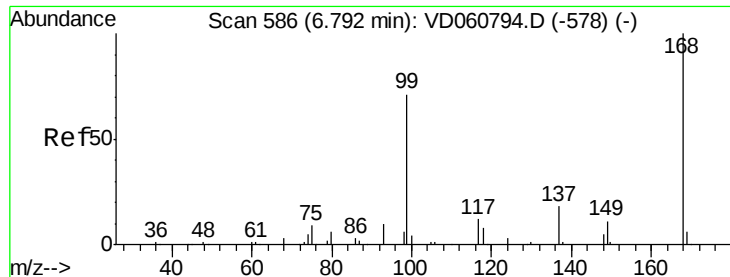
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.82 min Scan# 588

Delta R.T. 0.03 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

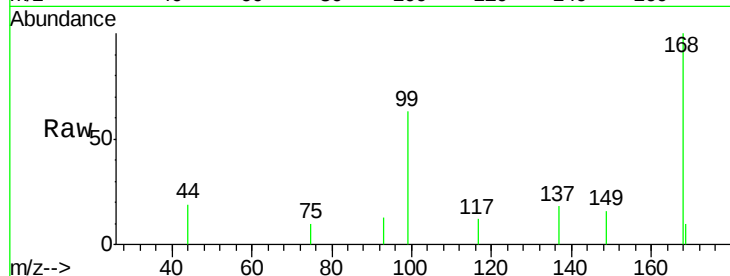
TP-5RE

Tot Ion:168 Resp: 9358

Ion Ratio Lower Upper

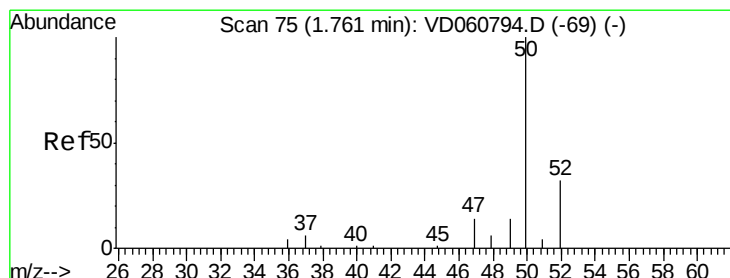
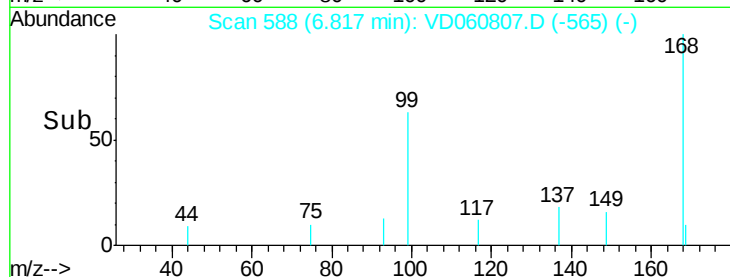
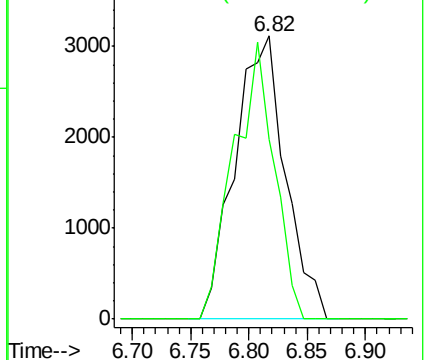
168 100

99 63.4 59.2 88.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#3

Chloromethane

Concen: 11.700 ug/l

RT: 1.78 min Scan# 76

Delta R.T. 0.02 min

Lab File: VD060807.D

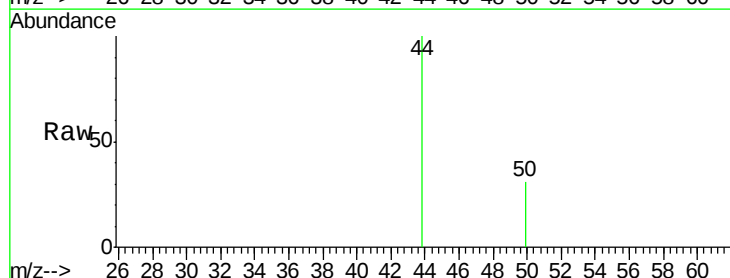
Acq: 30 Jan 2019 15:57

Tgt Ion: 50 Resp: 797

Ion Ratio Lower Upper

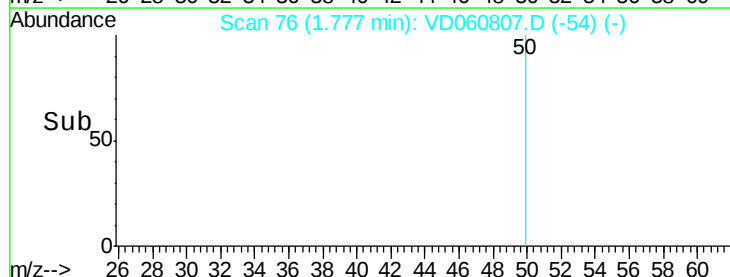
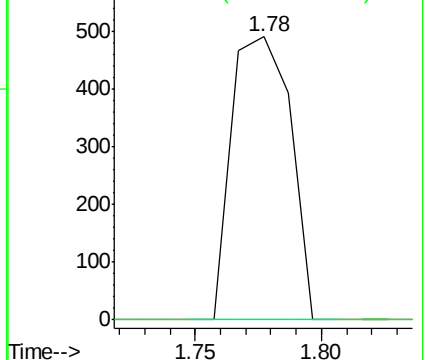
50 100

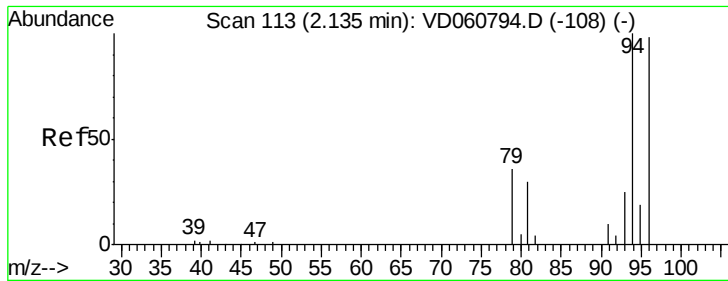
52 0.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC

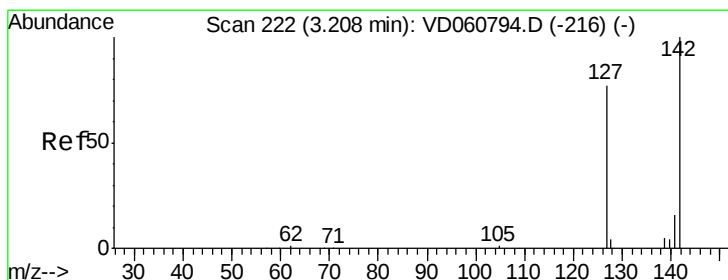
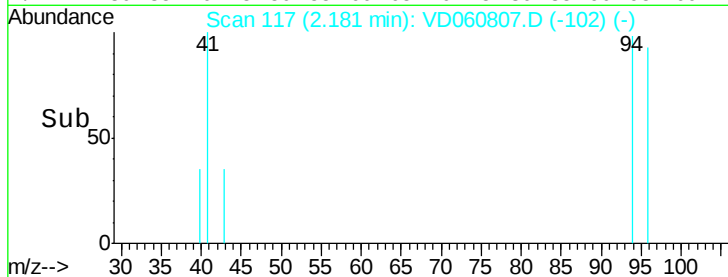
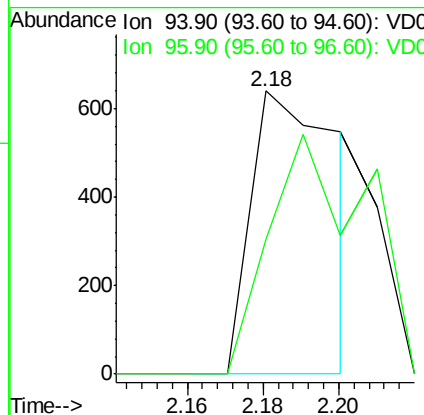
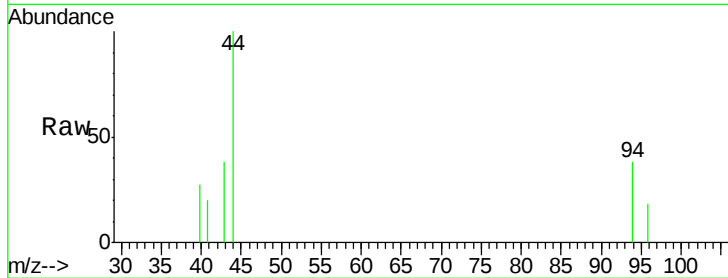




#5
Bromomethane
Concen: 45.268 ug/l
RT: 2.18 min Scan# 117
Delta R.T. 0.05 min
Lab File: VD060807.D
Acq: 30 Jan 2019 15:57

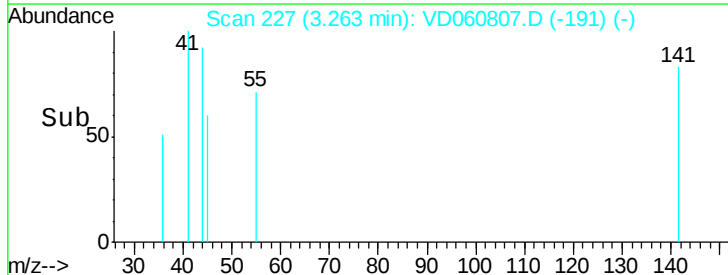
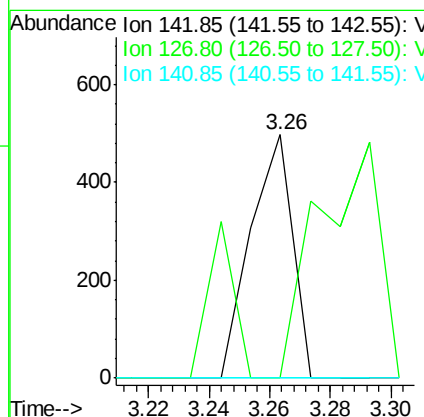
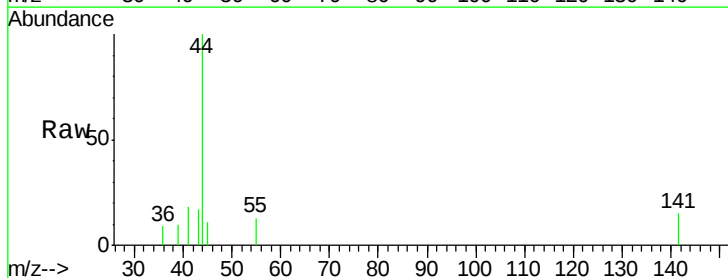
Instrument :
MSVOA_D
ClientSampleId :
TP-5RE

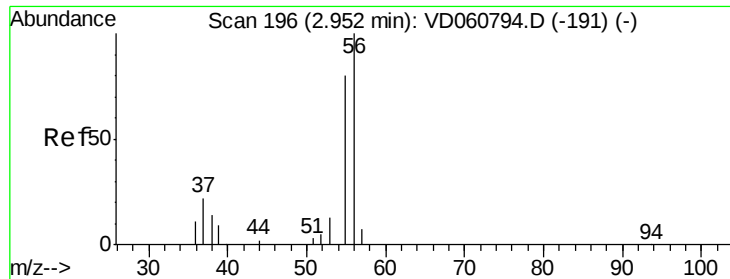
Tot Ion: 94 Resp: 1034
Ion Ratio Lower Upper
94 100
96 47.7 78.0 117.0#



#10
Methyl Iodide
Concen: 6.303 ug/l
RT: 3.26 min Scan# 227
Delta R.T. 0.06 min
Lab File: VD060807.D
Acq: 30 Jan 2019 15:57

Tgt Ion: 142 Resp: 476
Ion Ratio Lower Upper
142 100
127 0.0 61.6 92.4#
141 0.0 12.5 18.7#





#13

Acrolein

Concen: 95.791 ug/l

RT: 2.98 min Scan# 198

Delta R.T. 0.03 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampled :

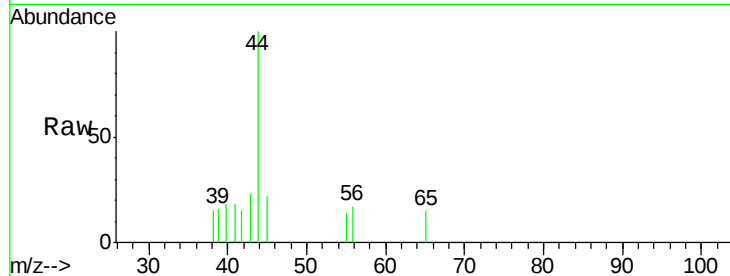
TP-5RE

Tot Ion: 56 Resp: 267

Ion Ratio Lower Upper

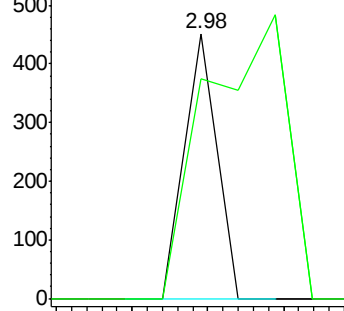
56 100

55 83.0 64.2 96.2

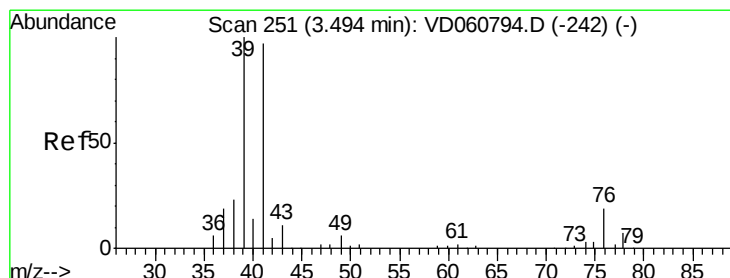
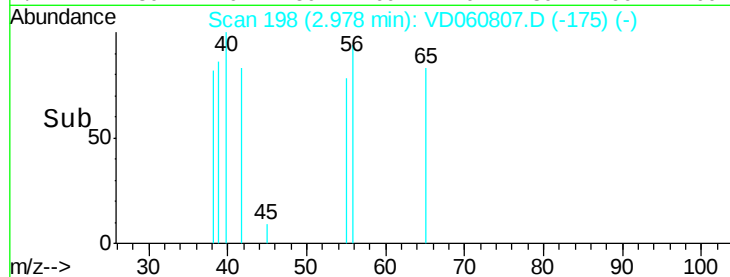


Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time--> 2.94 2.96 2.98 3.00



#14

Allyl chloride

Concen: 9.022 ug/l

RT: 3.50 min Scan# 251

Delta R.T. 0.01 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

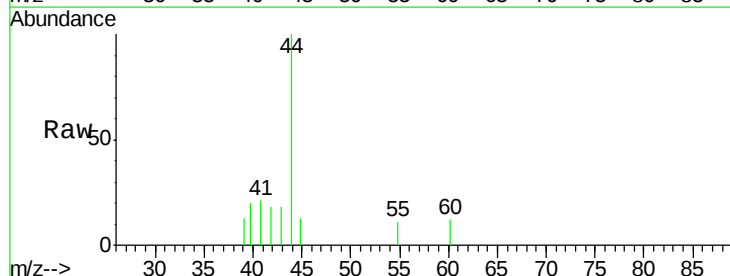
Tgt Ion: 41 Resp: 1035

Ion Ratio Lower Upper

41 100

39 59.9 82.6 123.8#

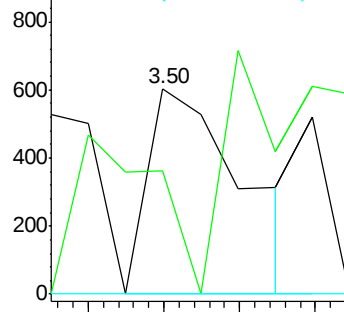
76 0.0 18.9 28.3#



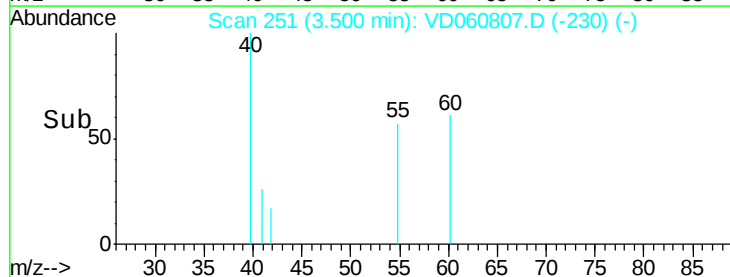
Abundance Ion 41.05 (40.75 to 41.75): VDC

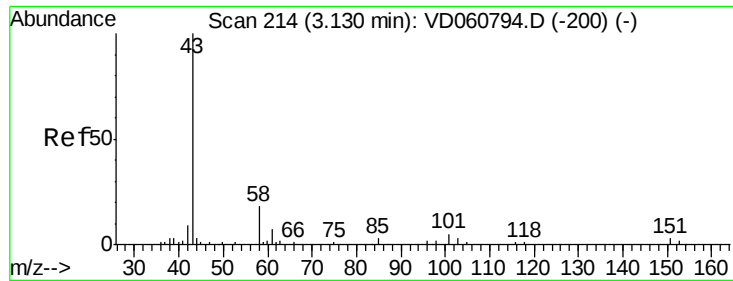
Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC



Time--> 3.48 3.50 3.52 3.54





#16

Acetone

Concen: 421.548 ug/l

RT: 3.15 min Scan# 215

Delta R.T. 0.02 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

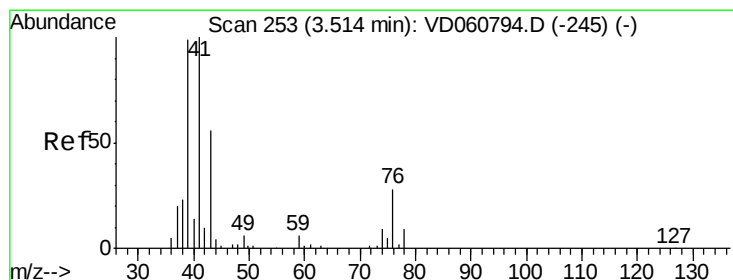
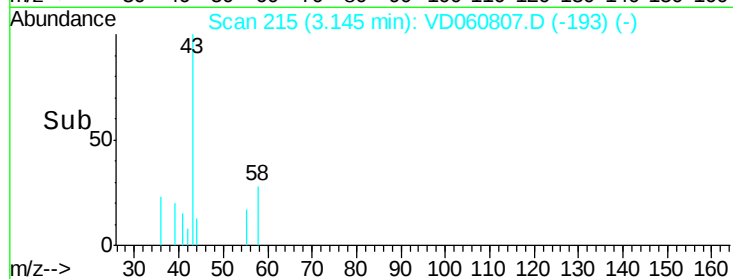
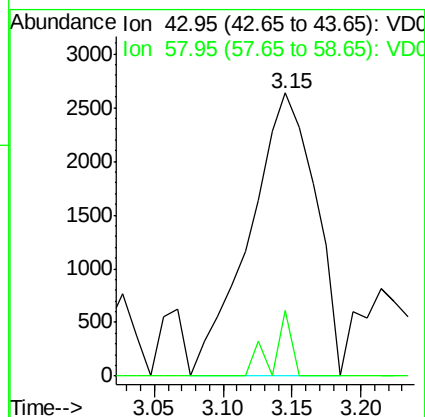
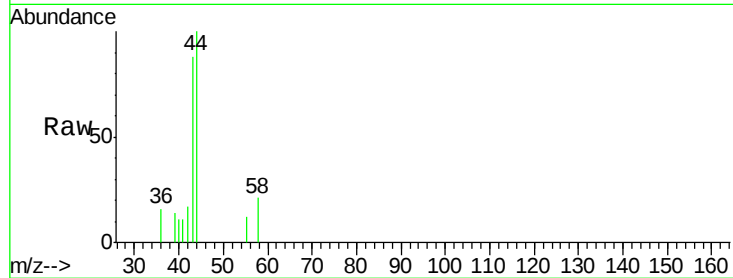
TP-5RE

Tot Ion: 43 Resp: 8735

Ion Ratio Lower Upper

43 100

58 23.4 14.5 21.7#



#18

Methyl Acetate

Concen: 73.178 ug/l

RT: 3.54 min Scan# 255

Delta R.T. 0.03 min

Lab File: VD060807.D

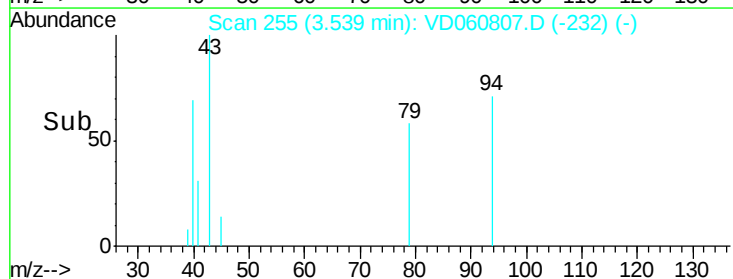
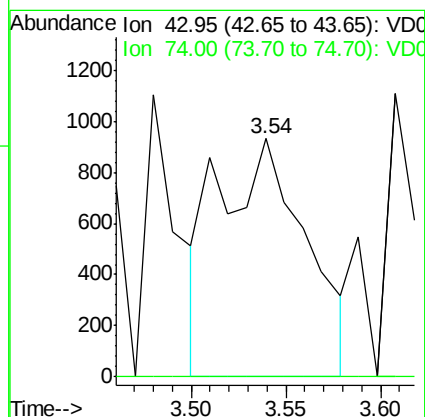
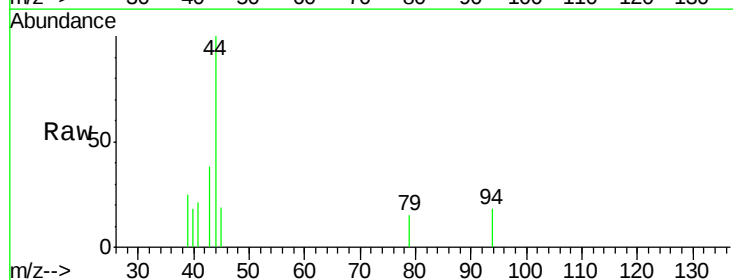
Acq: 30 Jan 2019 15:57

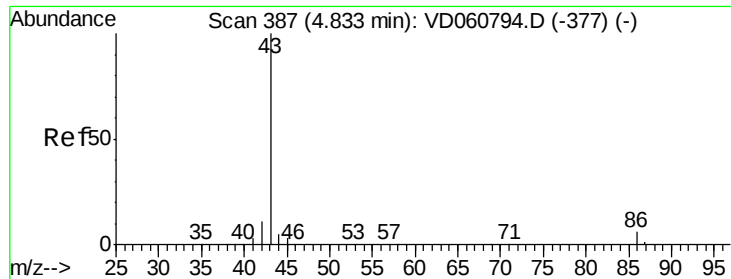
Tgt Ion: 43 Resp: 3006

Ion Ratio Lower Upper

43 100

74 0.0 12.5 18.7#





#23

Vinyl Acetate

Concen: 1.175 ug/l

RT: 5.00 min Scan# 403

Delta R.T. 0.16 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

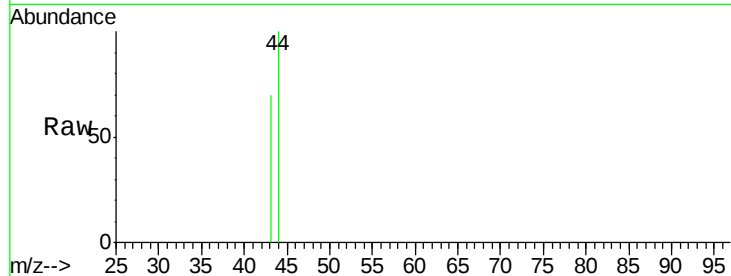
TP-5RE

Tot Ion: 43 Resp: 200

Ion Ratio Lower Upper

43 100

86 0.0 4.7 7.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.00

400

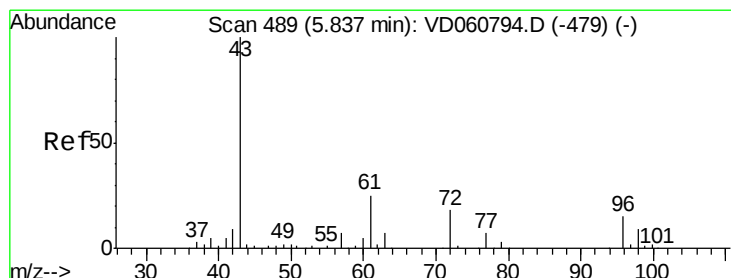
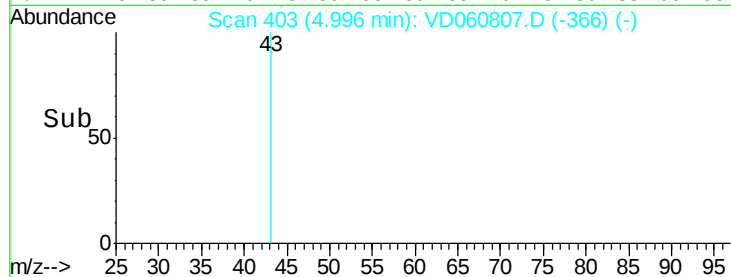
300

200

100

0

Time-->



#25

2-Butanone

Concen: 6.938 ug/l

RT: 5.81 min Scan# 486

Delta R.T. -0.02 min

Lab File: VD060807.D

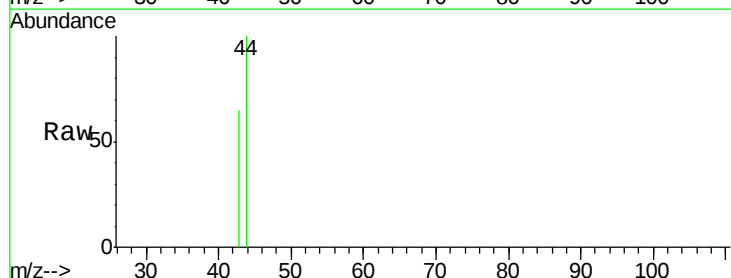
Acq: 30 Jan 2019 15:57

Tgt Ion: 43 Resp: 184

Ion Ratio Lower Upper

43 100

72 0.0 14.4 21.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

5.81

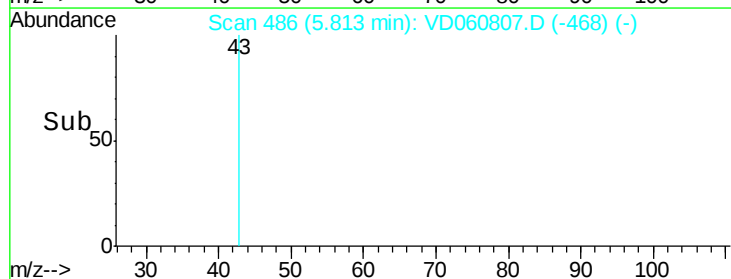
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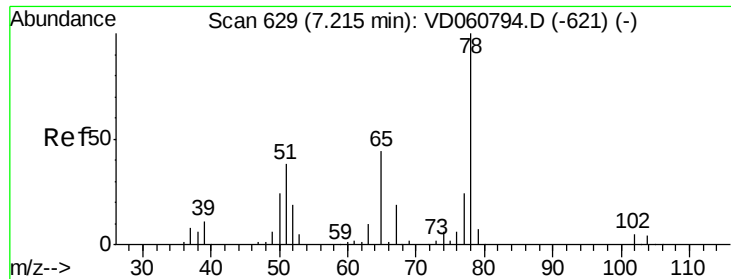
200

100

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.22 min Scan# 629

Delta R.T. 0.01 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

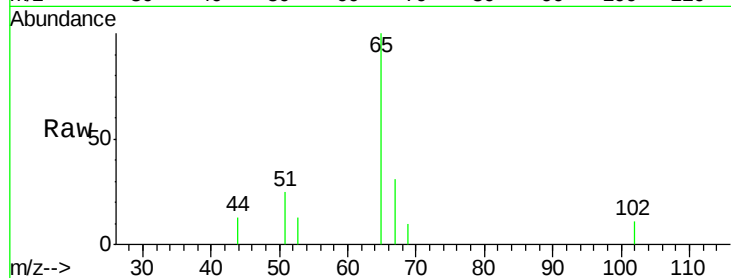
TP-5RE

Tot Ion: 65 Resp: 7969

Ion Ratio Lower Upper

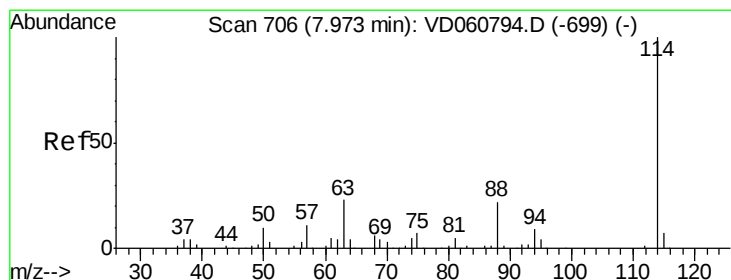
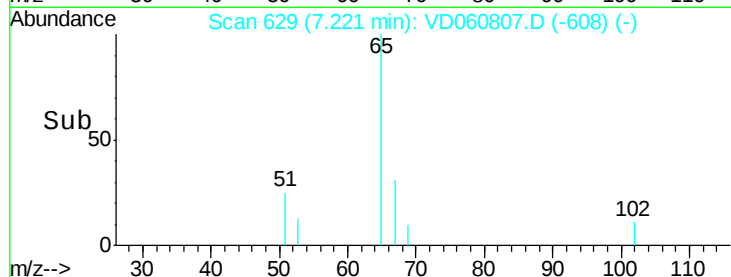
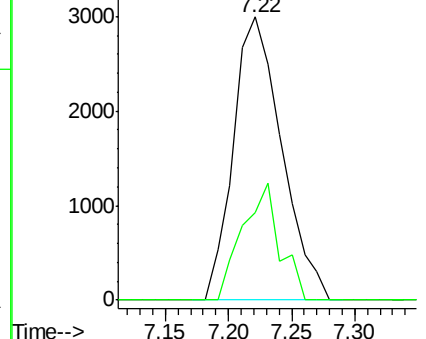
65 100

67 30.8 0.0 85.8



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: 7.99 min Scan# 707

Delta R.T. 0.02 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

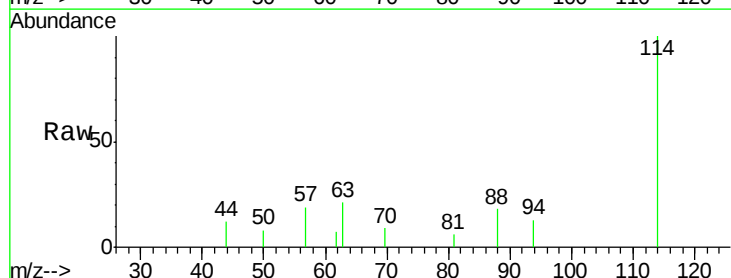
Tgt Ion: 114 Resp: 13517

Ion Ratio Lower Upper

114 100

63 20.9 0.0 46.6

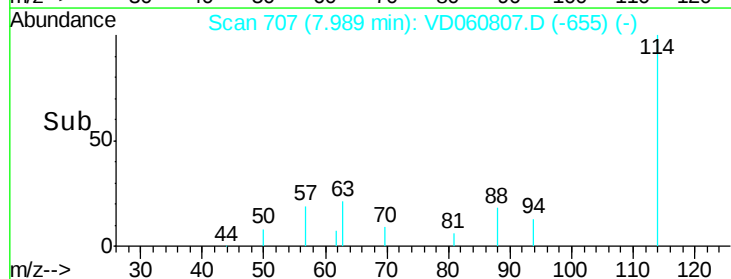
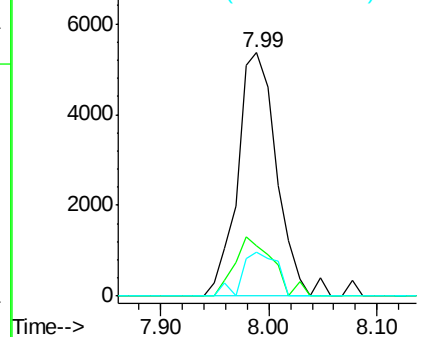
88 18.2 0.0 44.0

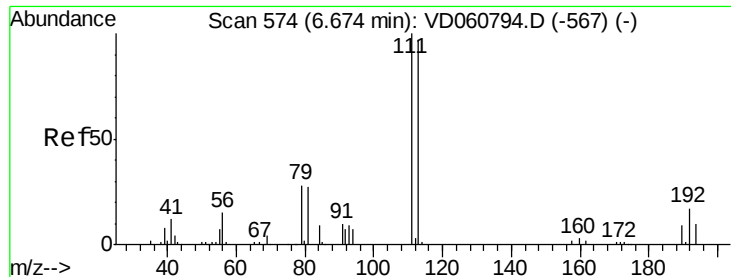


Abundance Ion 114.00 (113.70 to 114.70): V

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: 6.70 min Scan# 576

Delta R.T. 0.03 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :
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ClientSampleId :
TP-5RE

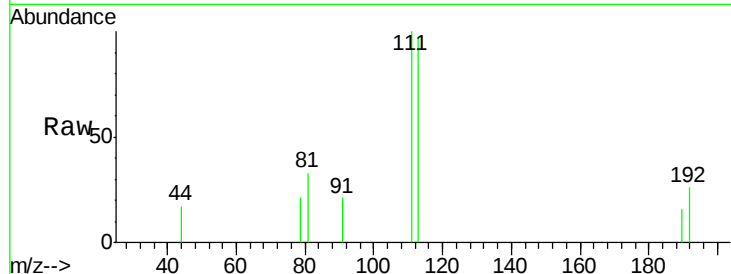
Tot Ion:113 Resp: 5209

Ion Ratio Lower Upper

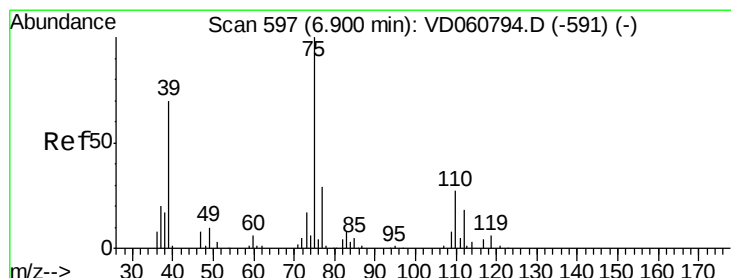
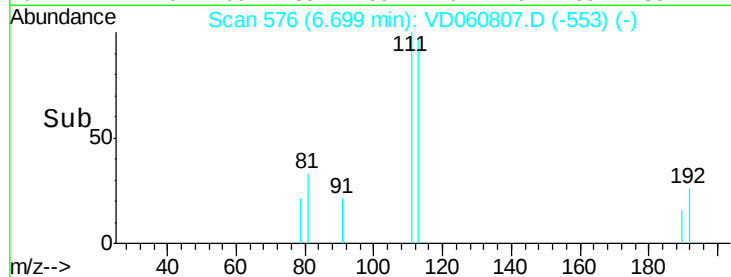
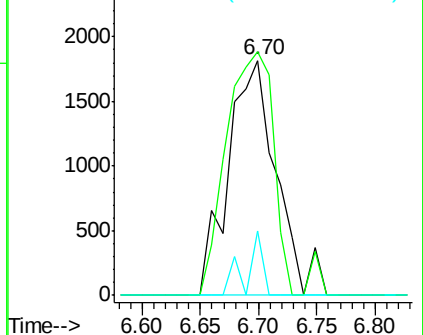
113 100

111 103.5 82.3 123.5

192 27.3 14.4 21.6#



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: 4.660 ug/l

RT: 6.81 min Scan# 587

Delta R.T. -0.09 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

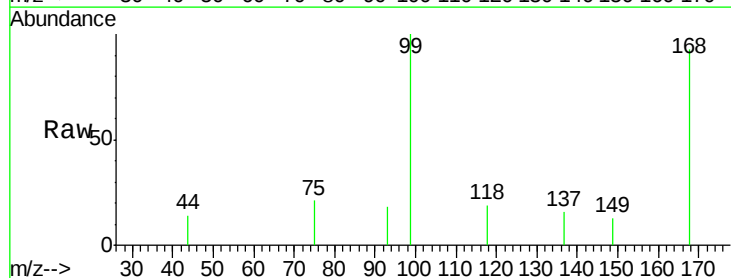
Tgt Ion: 75 Resp: 752

Ion Ratio Lower Upper

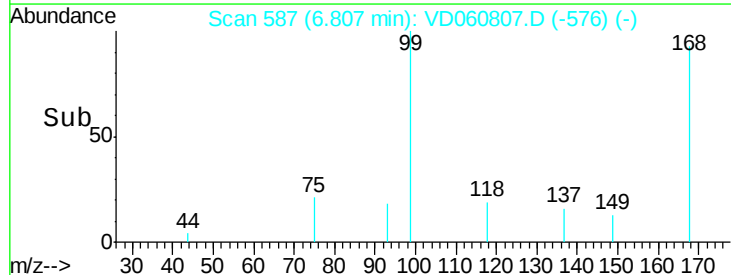
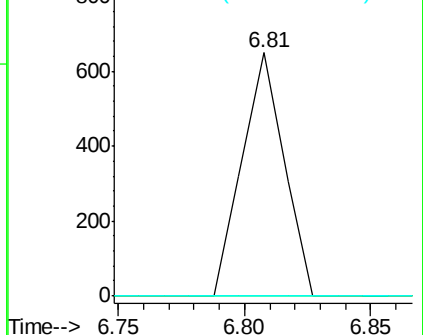
75 100

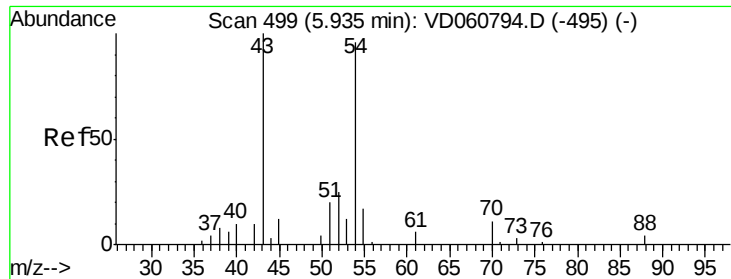
110 0.0 13.5 40.4#

77 0.0 23.4 35.2#



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





#37

Ethyl Acetate

Concen: 2.568 ug/l

RT: 5.93 min Scan# 498

Delta R.T. -0.00 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

TP-5RE

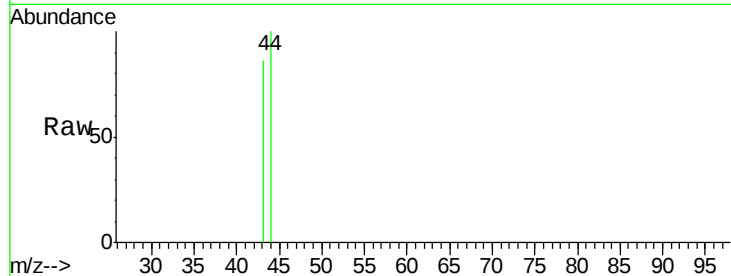
Tot Ion: 43 Resp: 185

Ion Ratio Lower Upper

43 100

61 0.0 12.3 18.5#

70 0.0 7.4 11.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

5.93

300

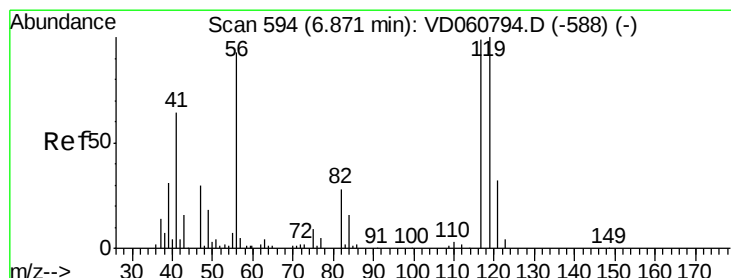
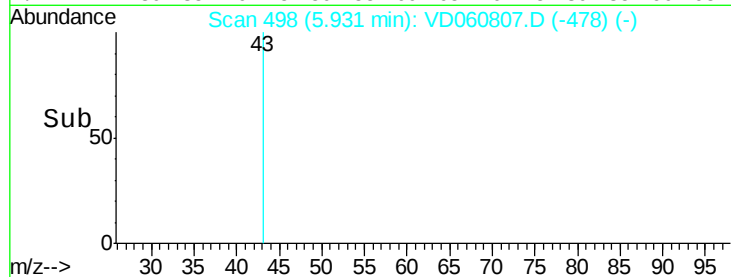
200

100

0

Time-->

5.90 5.92 5.94 5.96



#38

Carbon Tetrachloride

Concen: 1.117 ug/l

RT: 6.82 min Scan# 588

Delta R.T. -0.05 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

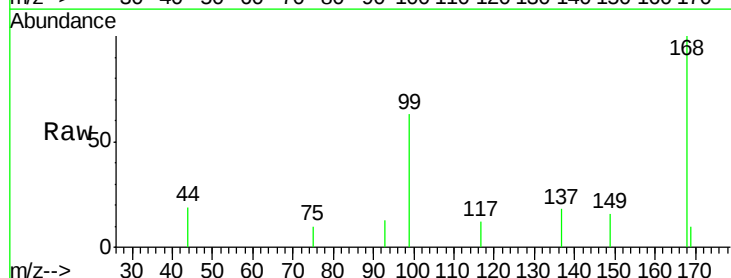
Tgt Ion: 117 Resp: 226

Ion Ratio Lower Upper

117 100

119 0.0 75.6 113.4#

121 0.0 23.4 35.2#



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

6.82

500

400

300

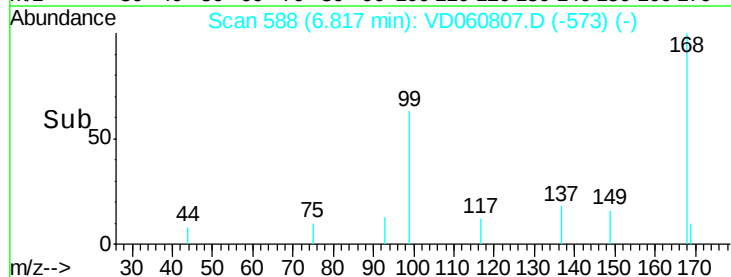
200

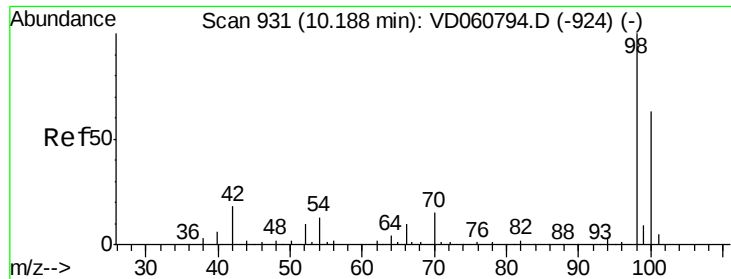
100

0

Time-->

6.78 6.80 6.82 6.84





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.19 min Scan# 931

Delta R.T. 0.01 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

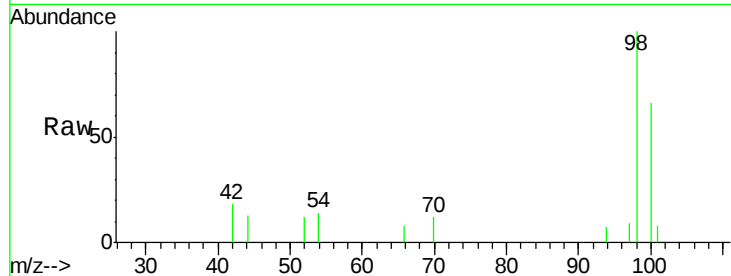
TP-5RE

Tot Ion: 98 Resp: 10940

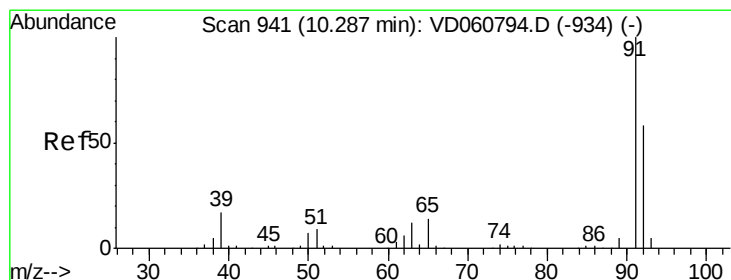
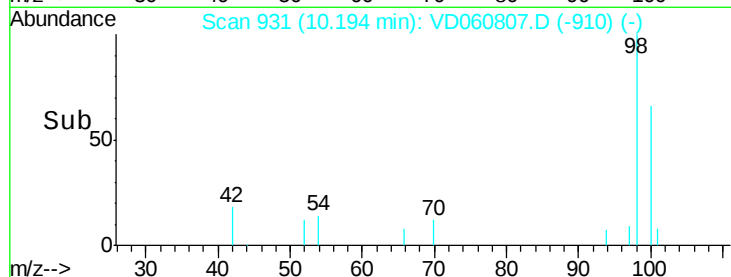
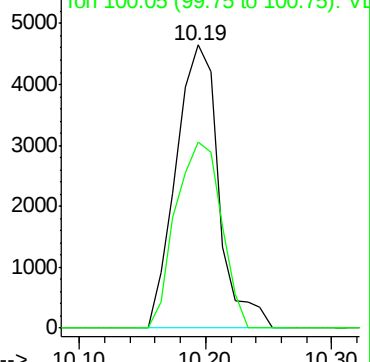
Ion Ratio Lower Upper

98 100

100 65.7 51.0 76.6



Abundance Ion 98.05 (97.75 to 98.75): VD060807.D (-910) (-)



#52

Toluene

Concen: 1.044 ug/l

RT: 10.30 min Scan# 942

Delta R.T. 0.02 min

Lab File: VD060807.D

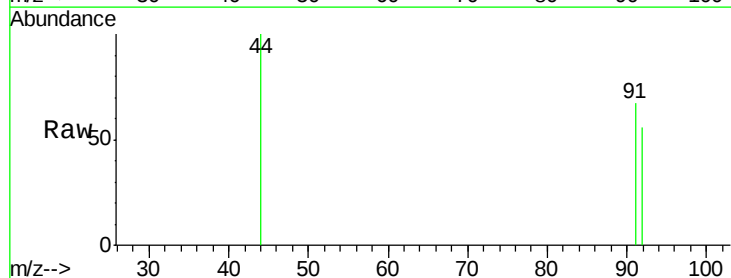
Acq: 30 Jan 2019 15:57

Tgt Ion: 92 Resp: 211

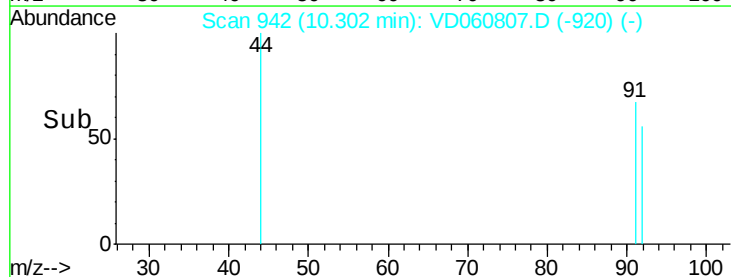
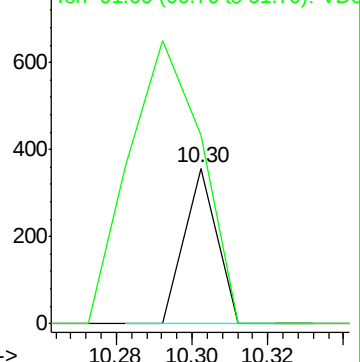
Ion Ratio Lower Upper

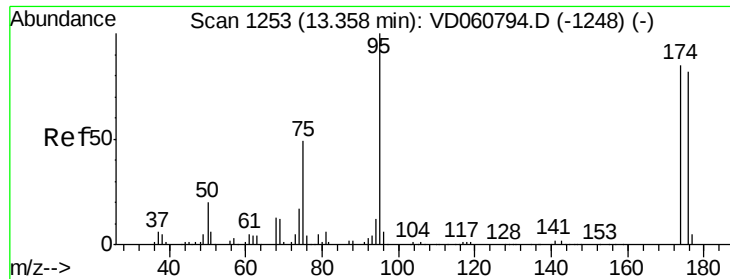
92 100

91 120.7 137.7 206.5#



Abundance Ion 92.00 (91.70 to 92.70): VD060807.D (-920) (-)

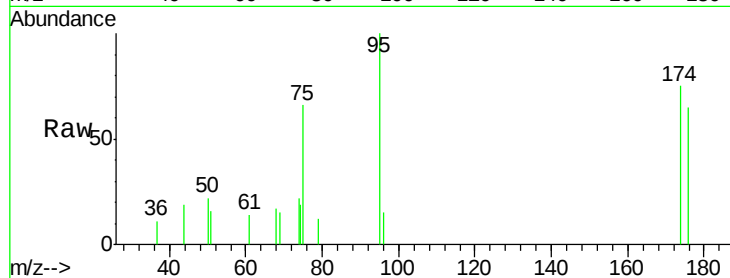




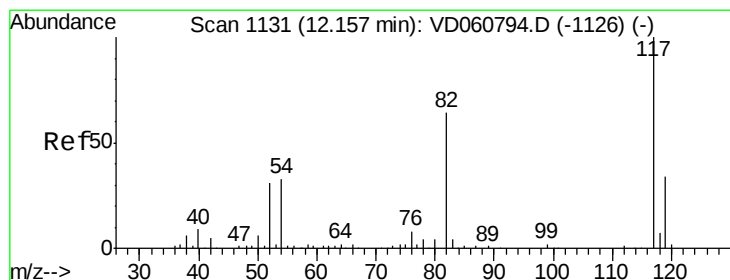
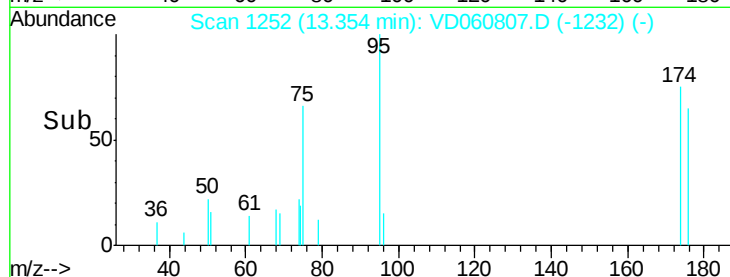
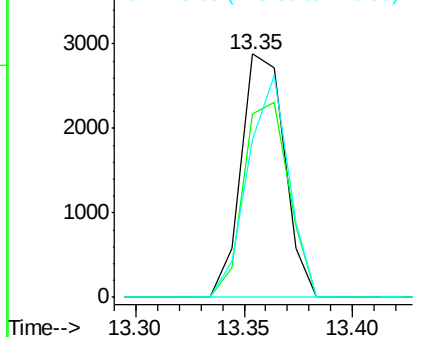
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 13.35 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VD060807.D
Acq: 30 Jan 2019 15:57

Instrument :
MSVOA_D
ClientSampleId :
TP-5RE

Tot Ion: 95 Resp: 3993
Ion Ratio Lower Upper
95 100
174 75.4 0.0 169.6
176 64.7 0.0 163.8

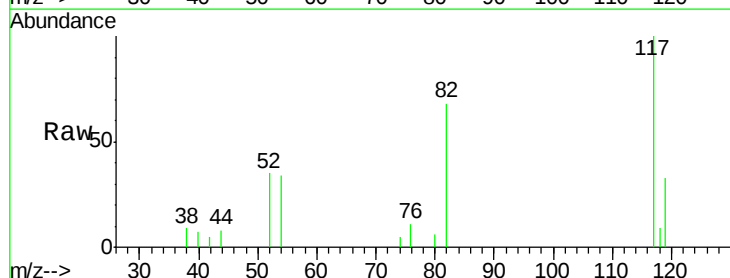


Abundance Ion 95.00 (94.70 to 95.70): V
Ion 173.90 (173.60 to 174.60): V
Ion 175.90 (175.60 to 176.60): V

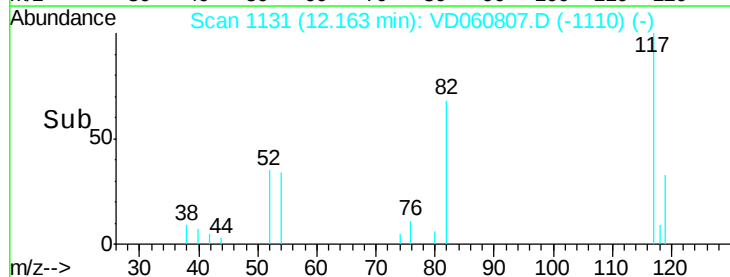
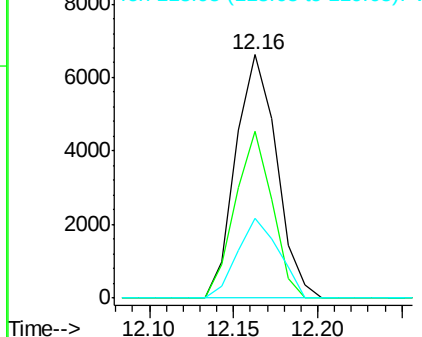


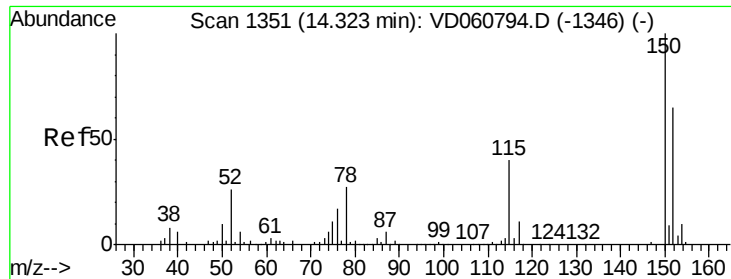
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.16 min Scan# 1131
Delta R.T. 0.01 min
Lab File: VD060807.D
Acq: 30 Jan 2019 15:57

Tgt Ion: 117 Resp: 11156
Ion Ratio Lower Upper
117 100
82 68.3 51.5 77.3
119 33.0 27.1 40.7



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: 14.33 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

TP-5RE

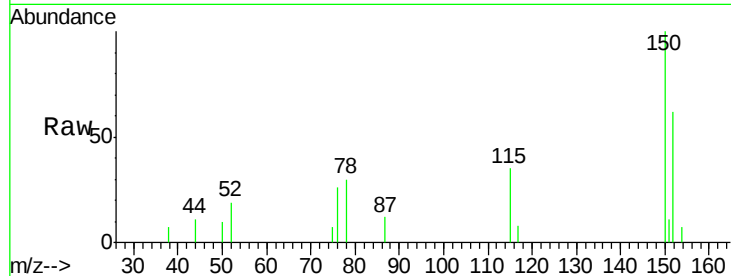
Tot Ion:152 Resp: 3781

Ion Ratio Lower Upper

152 100

115 56.9 31.6 95.0

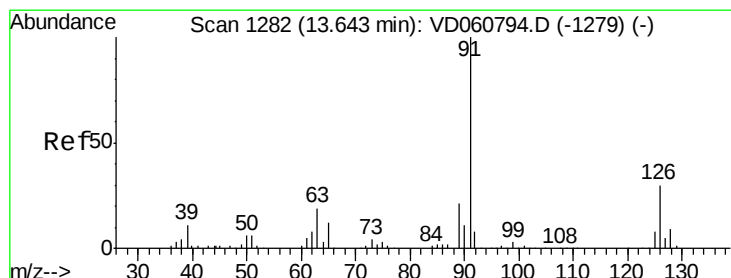
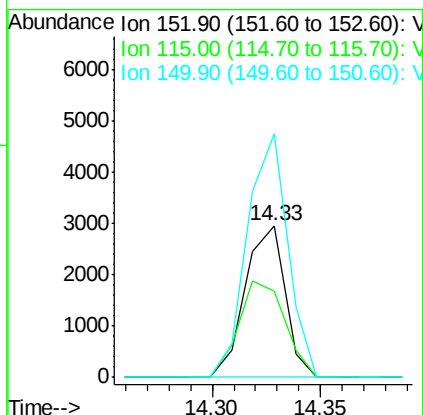
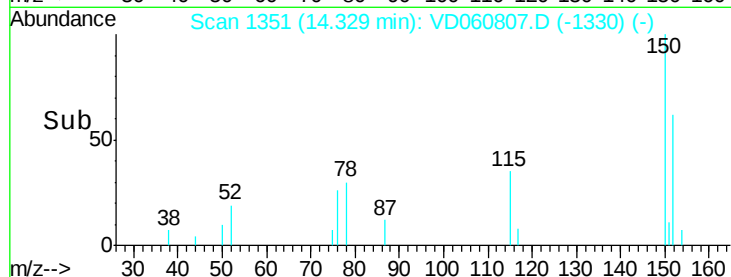
150 160.7 0.0 317.6



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



#79

2-Chlorotoluene

Concen: 1.755 ug/l

RT: 13.75 min Scan# 1292

Delta R.T. 0.10 min

Lab File: VD060807.D

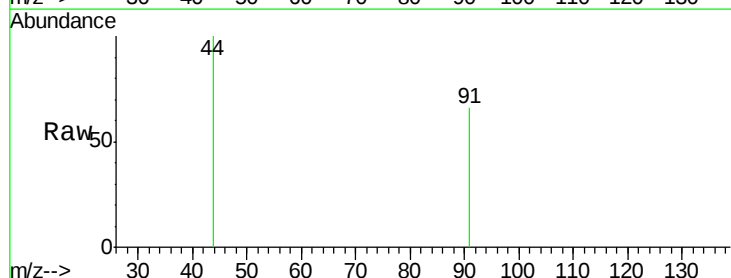
Acq: 30 Jan 2019 15:57

Tgt Ion: 91 Resp: 405

Ion Ratio Lower Upper

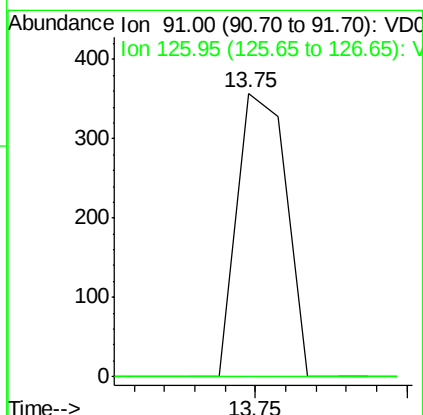
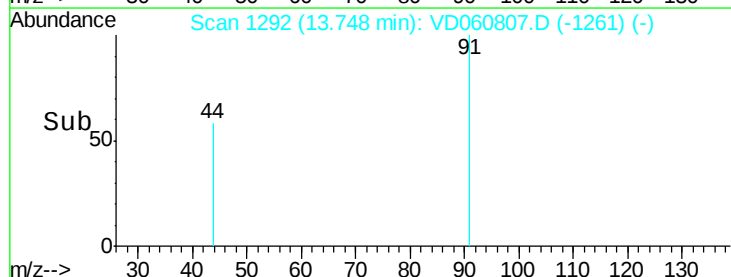
91 100

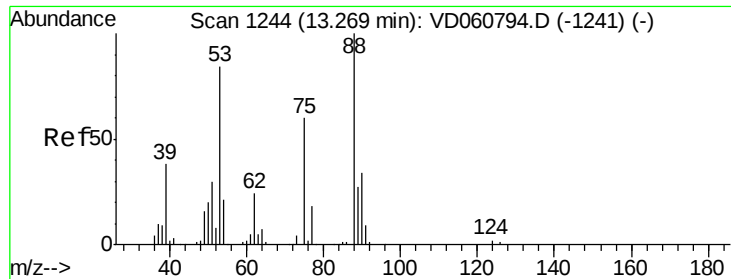
126 0.0 14.7 44.1#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V





#81

trans-1,4-Dichloro-2-butene

Concen: 137.861 ug/l

RT: 13.35 min Scan# 1252

Delta R.T. 0.08 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

TP-5RE

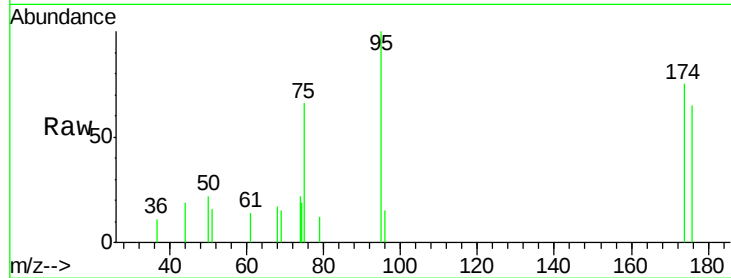
Tot Ion: 75 Resp: 2492

Ion Ratio Lower Upper

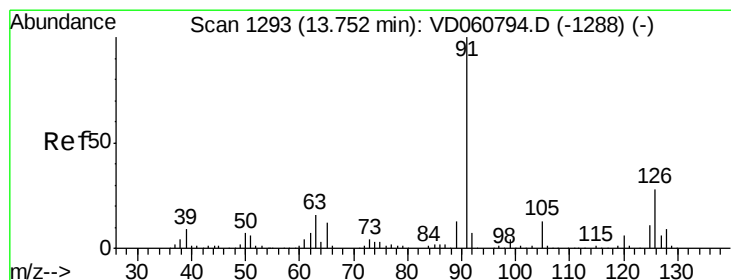
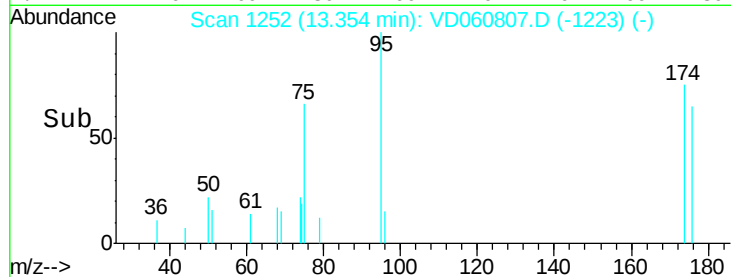
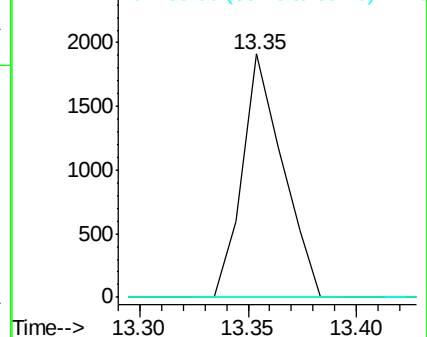
75 100

53 0.0 111.6 167.4#

89 0.0 35.9 53.9#



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: 1.579 ug/l

RT: 13.75 min Scan# 1292

Delta R.T. -0.00 min

Lab File: VD060807.D

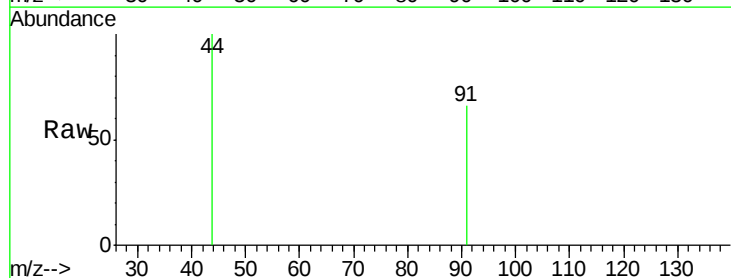
Acq: 30 Jan 2019 15:57

Tgt Ion: 91 Resp: 405

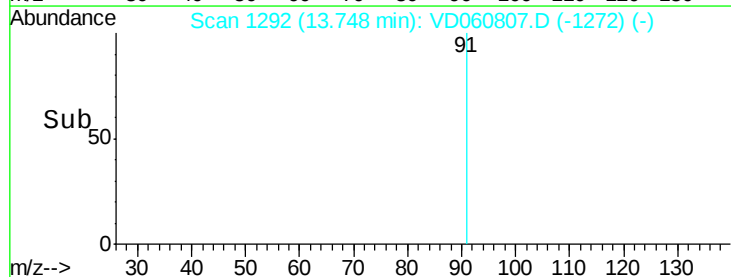
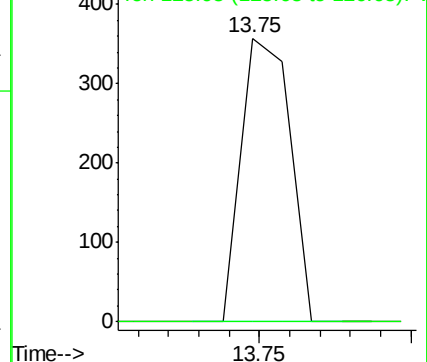
Ion Ratio Lower Upper

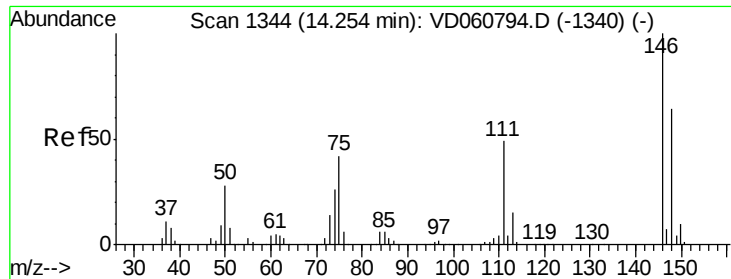
91 100

126 0.0 13.9 41.7#



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

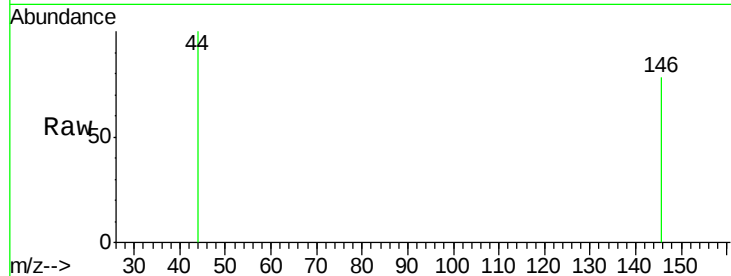




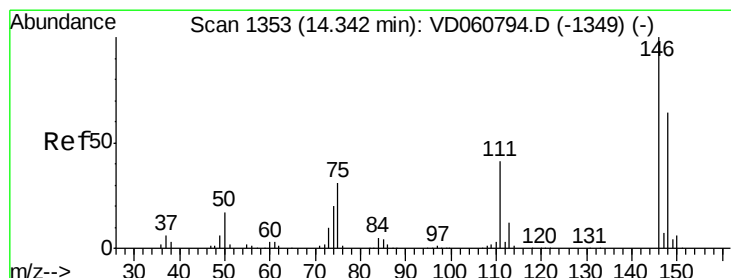
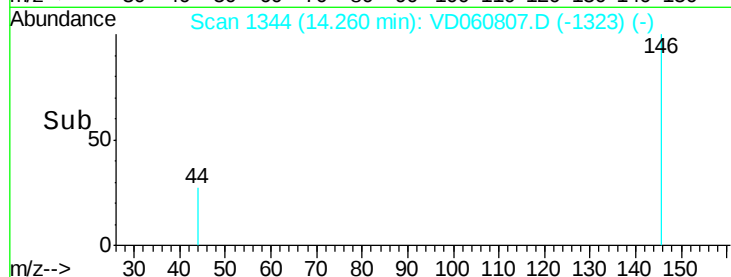
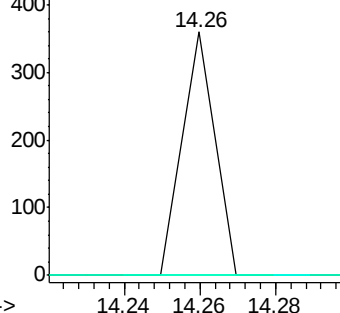
#87
 1,3-Dichlorobenzene
 Concen: 1.537 ug/l
 RT: 14.26 min Scan# 1344
 Delta R.T. 0.01 min
 Lab File: VD060807.D
 Acq: 30 Jan 2019 15:57

Instrument :
 MSVOA_D
 ClientSampled :
 TP-5RE

Tot Ion:146 Resp: 213
 Ion Ratio Lower Upper
 146 100
 111 0.0 24.3 73.0#
 148 0.0 32.1 96.5#

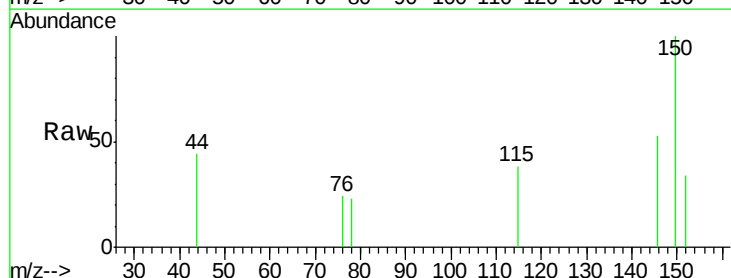


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

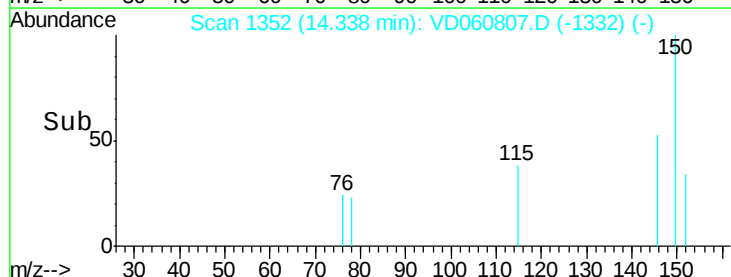
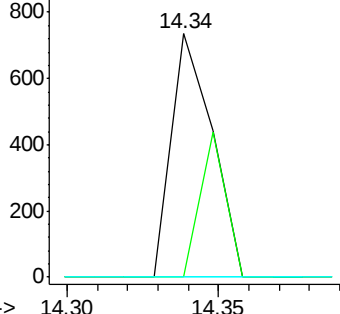


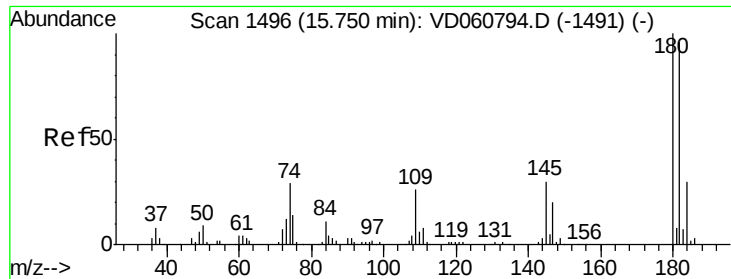
#88
 1,4-Dichlorobenzene
 Concen: 5.161 ug/l
 RT: 14.34 min Scan# 1352
 Delta R.T. -0.00 min
 Lab File: VD060807.D
 Acq: 30 Jan 2019 15:57

Tgt Ion:146 Resp: 695
 Ion Ratio Lower Upper
 146 100
 111 0.0 20.6 61.8#
 148 0.0 31.9 95.7#



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

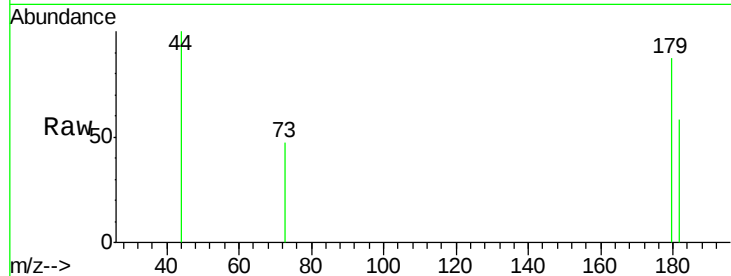




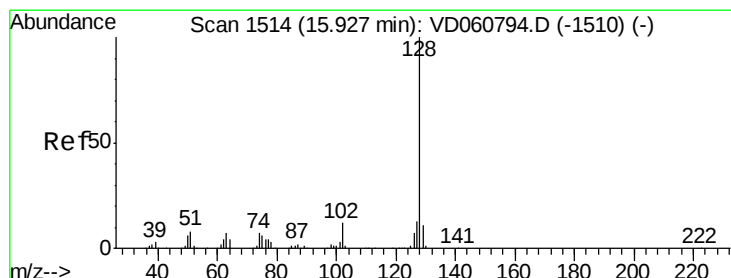
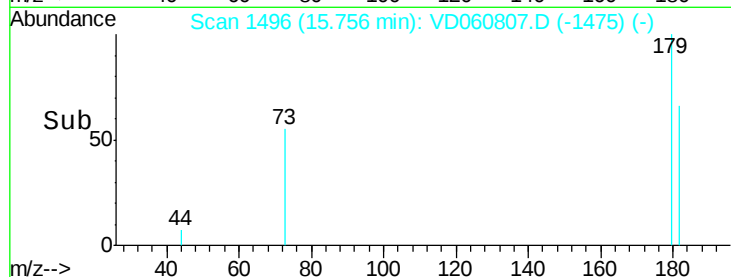
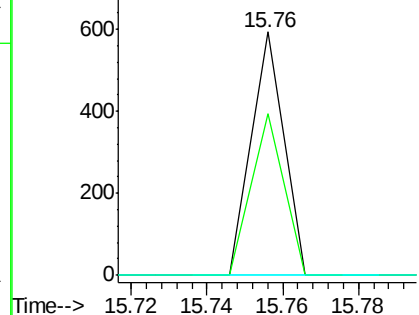
#93
 1,2,4-Trichlorobenzene
 Concen: 3.523 ug/l
 RT: 15.76 min Scan# 1496
 Delta R.T. 0.01 min
 Lab File: VD060807.D
 Acq: 30 Jan 2019 15:57

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5RE

Tot Ion:180 Resp: 351
 Ion Ratio Lower Upper
 180 100
 182 66.5 47.9 143.7
 145 0.0 15.0 45.1#

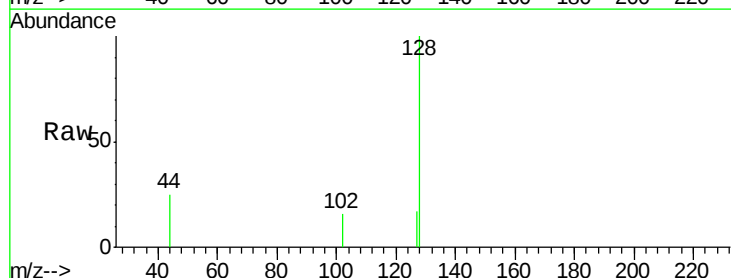


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

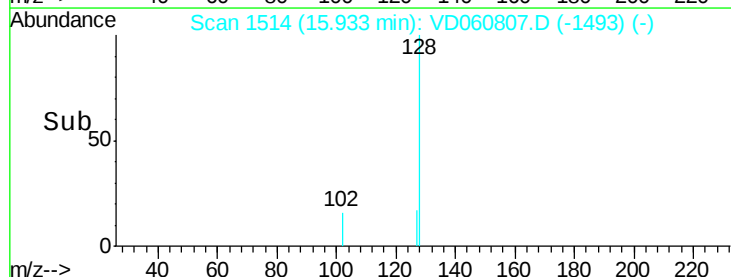
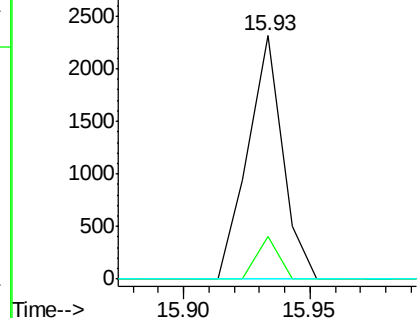


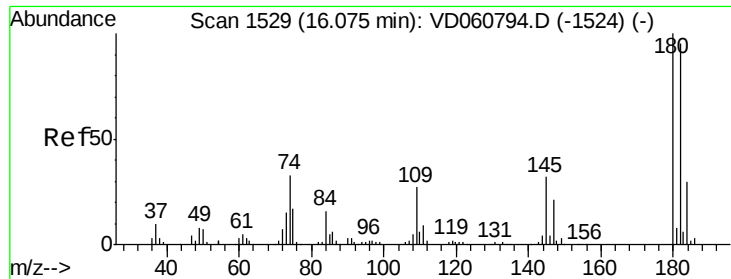
#95
 Naphthalene
 Concen: 14.530 ug/l
 RT: 15.93 min Scan# 1514
 Delta R.T. 0.01 min
 Lab File: VD060807.D
 Acq: 30 Jan 2019 15:57

Tgt Ion:128 Resp: 2224
 Ion Ratio Lower Upper
 128 100
 127 17.5 10.4 15.6#
 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





#96

1,2,3-Trichlorobenzene

Concen: 2.713 ug/l

RT: 16.08 min Scan# 1529

Delta R.T. 0.01 min

Lab File: VD060807.D

Acq: 30 Jan 2019 15:57

Instrument :

MSVOA_D

ClientSampleId :

TP-5RE

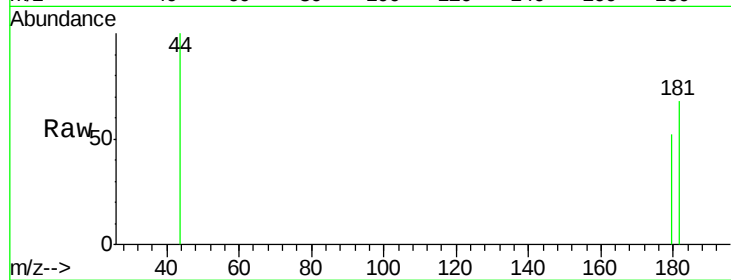
Tot Ion:180 Resp: 235

Ion Ratio Lower Upper

180 100

182 130.4 47.4 142.3

145 0.0 15.8 47.4#



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

