

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013019\
 Data File : VD060804.D
 Acq On : 30 Jan 2019 14:31
 Operator : VA/AP
 Sample : K1282-05RE
 Misc : 5.45g/5ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-2RE

Quant Time: Jan 31 05:00:20 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	6.81	168	73710	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.00	114	98873	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.17	117	78527	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.33	152	31369	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.24	65	63851	56.50	ug/l	0.02
Spiked Amount			Recovery	=	113.00%	
35) Dibromofluoromethane	6.70	113	43929	46.33	ug/l	0.02
Spiked Amount			Recovery	=	92.66%	
50) Toluene-d8	10.20	98	74395	33.60	ug/l	0.01
Spiked Amount			Recovery	=	67.20%	
62) 4-Bromofluorobenzene	13.36	95	32129	28.87	ug/l	0.00
Spiked Amount			Recovery	=	57.74%	

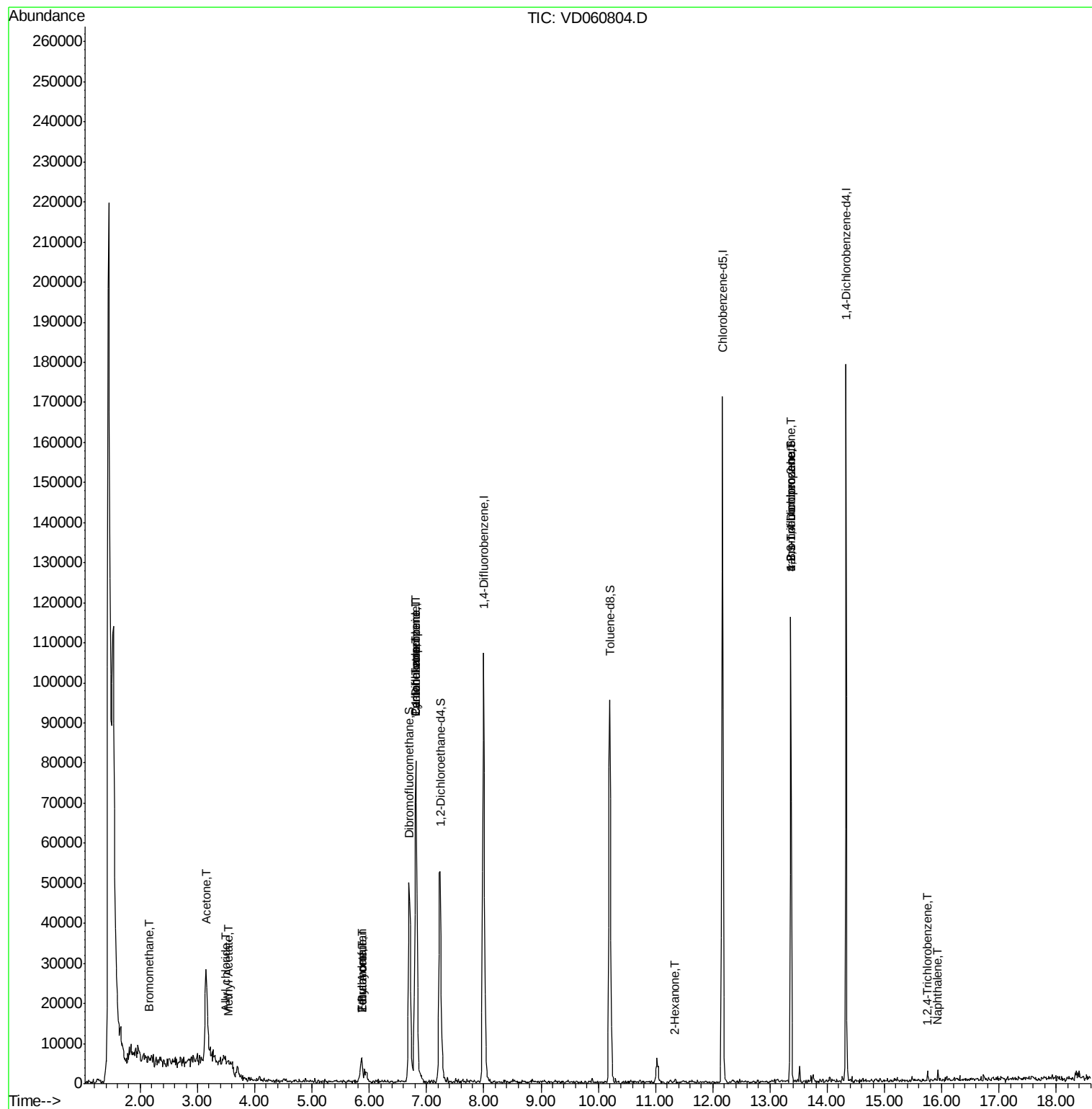
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.16	94	380	2.112	ug/l #	1
13) Acrolein	2.90	56	227	Below Cal		90
14) Allyl chloride	3.50	41	992	1.098	ug/l #	57
16) Acetone	3.15	43	55530	340.226	ug/l #	88
18) Methyl Acetate	3.55	43	4006	12.381	ug/l #	63
20) Methylene Chloride	3.72	84	1721	Below Cal	#	35
25) 2-Butanone	5.87	43	13016	62.305	ug/l #	90
29) Tetrahydrofuran	5.86	42	865	8.622	ug/l #	1
31) Cyclohexane	6.80	56	2318	2.235	ug/l #	18
36) 1,1-Dichloropropene	6.81	75	6507	5.512	ug/l #	47
37) Ethyl Acetate	5.87	43	13016	24.699	ug/l #	68
38) Carbon Tetrachloride	6.81	117	7729	5.221	ug/l #	13
59) 2-Hexanone	11.34	43	466	1.392	ug/l #	27
76) 1,2,3-Trichloropropane	13.36	75	11584	20.138	ug/l #	43
81) trans-1,4-Dichloro-2-buten	13.36	75	15696	104.662	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.75	180	1288	1.558	ug/l #	46
95) Naphthalene	15.93	128	2529	1.992	ug/l #	79

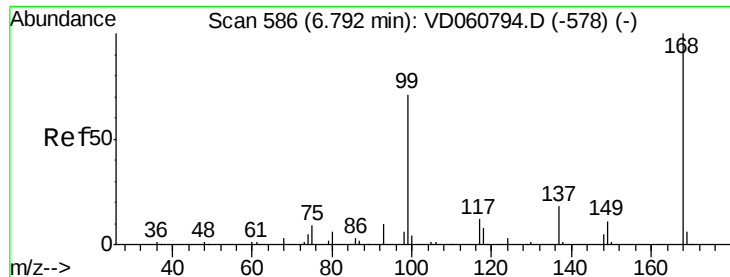
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 29 13:53:55 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.81 min Scan# 588

Delta R.T. 0.02 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

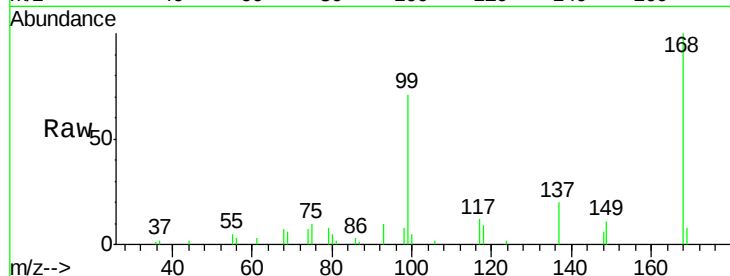
TP-2RE

Tot Ion:168 Resp: 73710

Ion Ratio Lower Upper

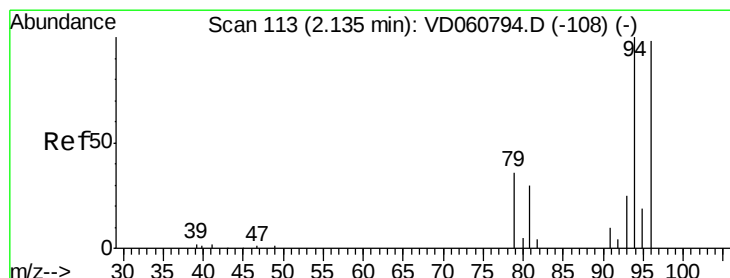
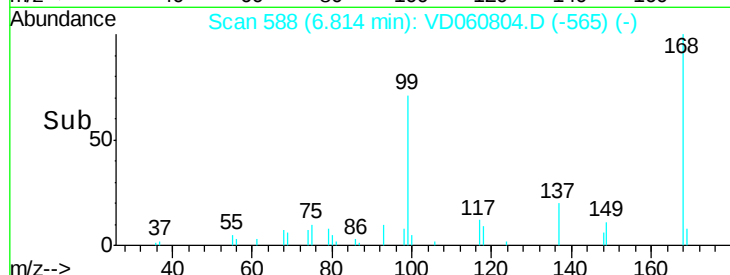
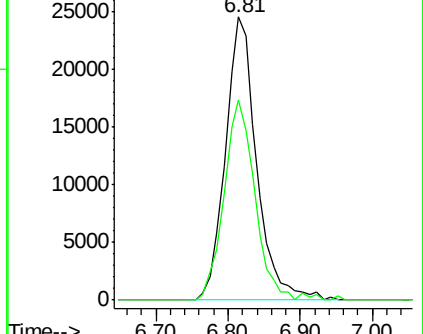
168 100

99 70.7 59.2 88.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 2.112 ug/l

RT: 2.16 min Scan# 115

Delta R.T. 0.02 min

Lab File: VD060804.D

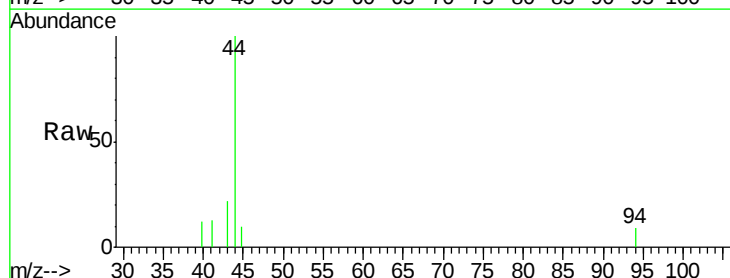
Acq: 30 Jan 2019 14:31

Tgt Ion: 94 Resp: 380

Ion Ratio Lower Upper

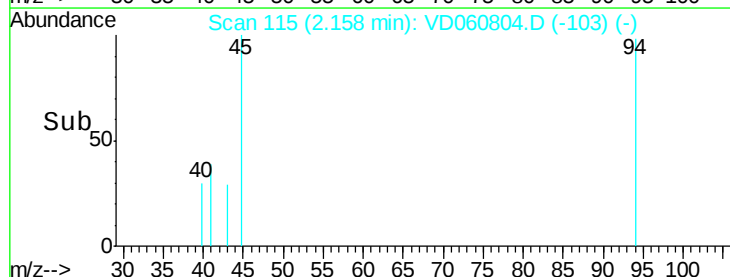
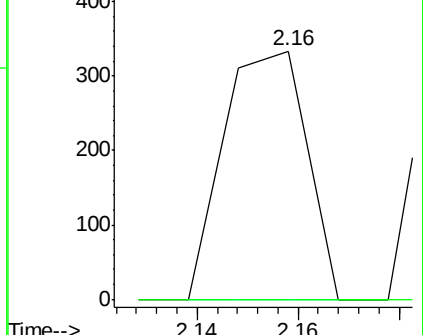
94 100

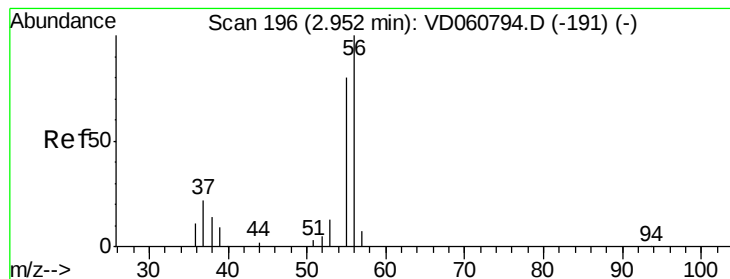
96 0.0 78.0 117.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#13

Acrolein

Concen: Below Cal

RT: 2.90 min Scan# 190

Delta R.T. -0.06 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampled :

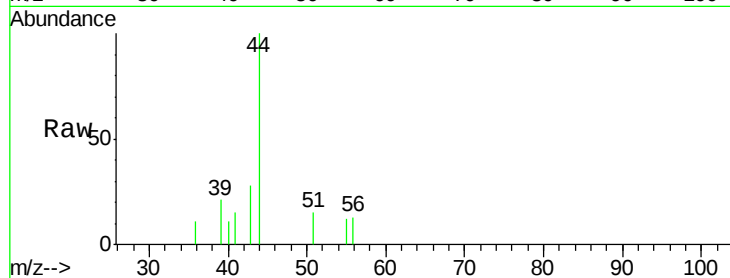
TP-2RE

Tot Ion: 56 Resp: 227

Ion Ratio Lower Upper

56 100

55 88.8 64.2 96.2



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

600

500

400

300

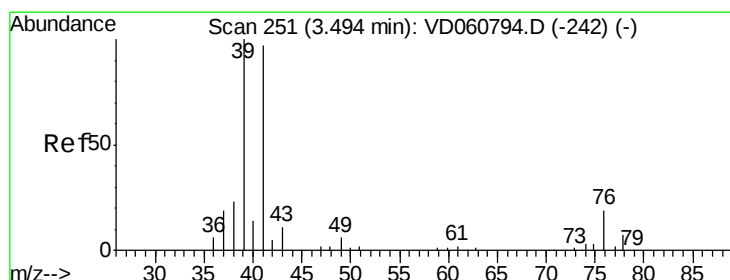
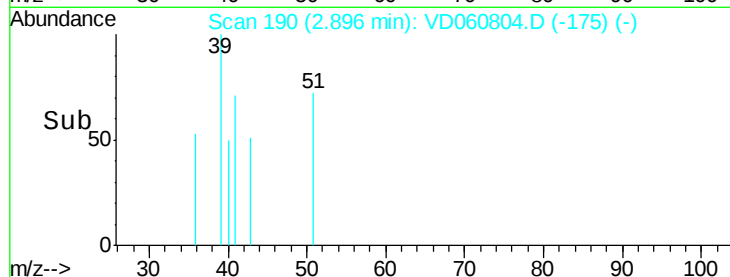
200

100

0

2.86 2.88 2.90 2.92

Time-->



#14

Allyl chloride

Concen: 1.098 ug/l

RT: 3.50 min Scan# 251

Delta R.T. 0.00 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

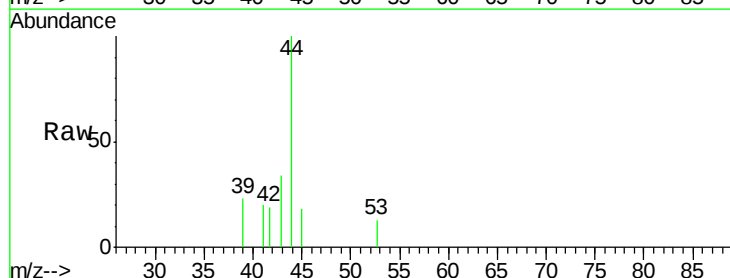
Tgt Ion: 41 Resp: 992

Ion Ratio Lower Upper

41 100

39 60.0 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

1200

1000

800

600

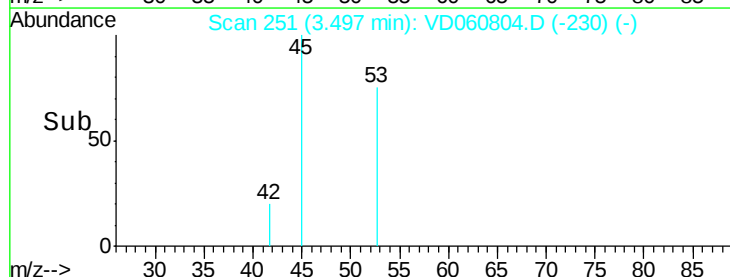
400

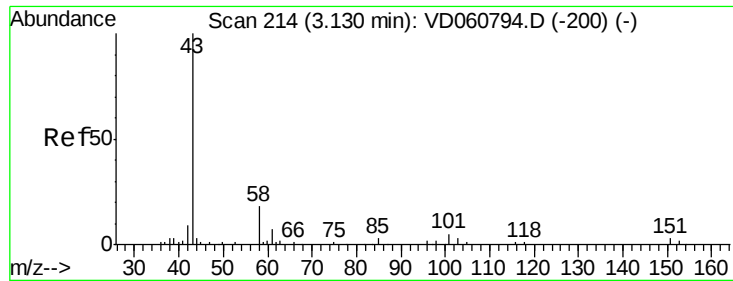
200

0

3.48 3.50 3.52 3.54

Time-->





#16

Acetone

Concen: 340.226 ug/l

RT: 3.15 min Scan# 216

Delta R.T. 0.02 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

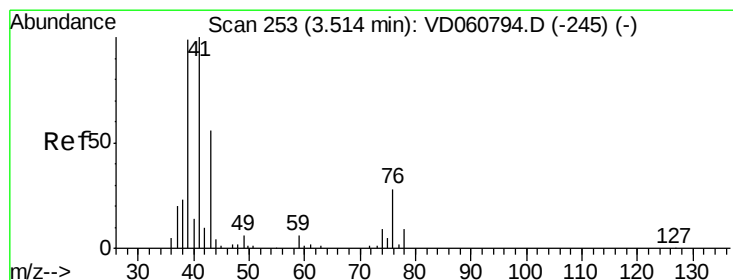
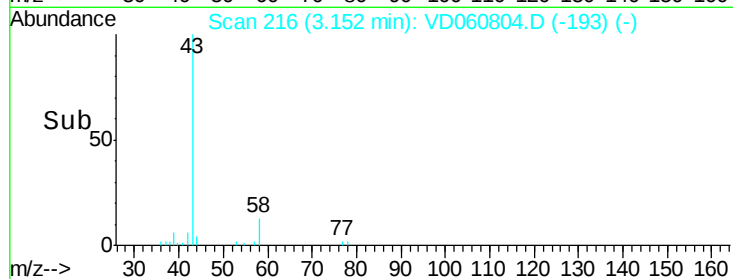
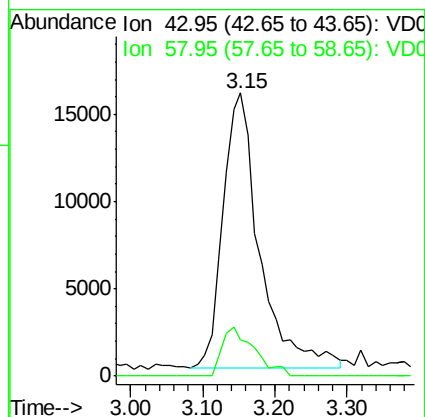
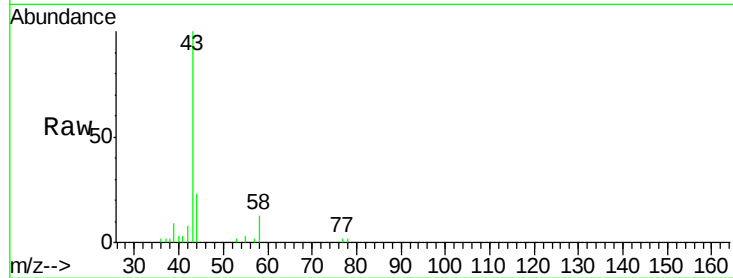
TP-2RE

Tot Ion: 43 Resp: 55530

Ion Ratio Lower Upper

43 100

58 12.8 14.5 21.7#



#18

Methyl Acetate

Concen: 12.381 ug/l

RT: 3.55 min Scan# 256

Delta R.T. 0.03 min

Lab File: VD060804.D

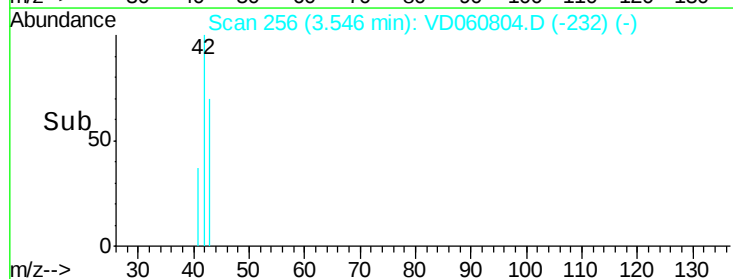
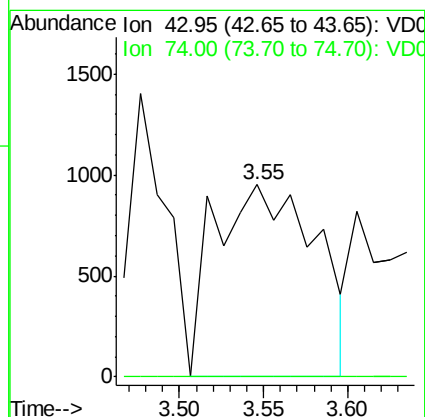
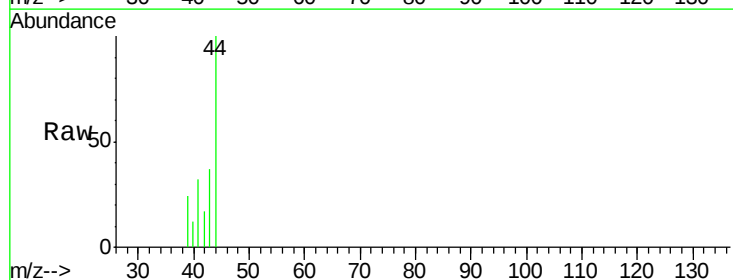
Acq: 30 Jan 2019 14:31

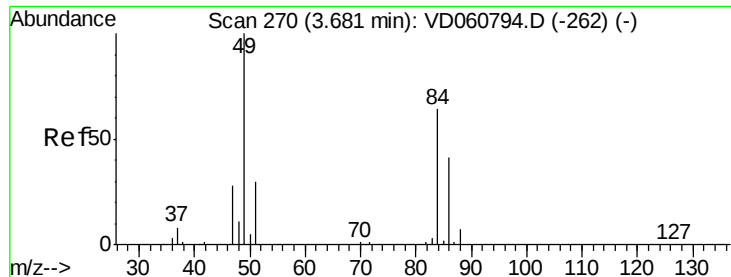
Tgt Ion: 43 Resp: 4006

Ion Ratio Lower Upper

43 100

74 0.0 12.5 18.7#

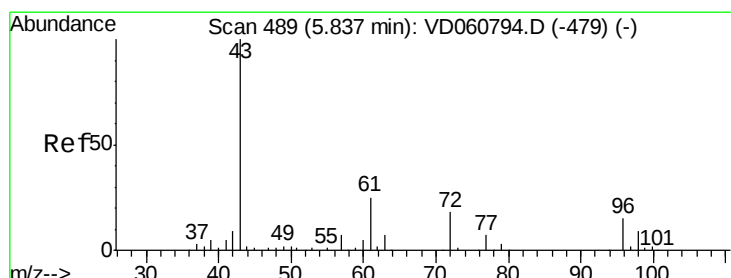
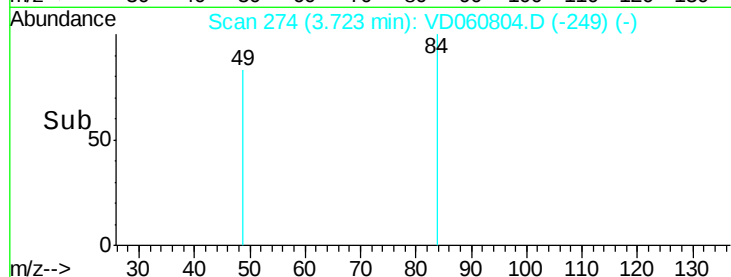
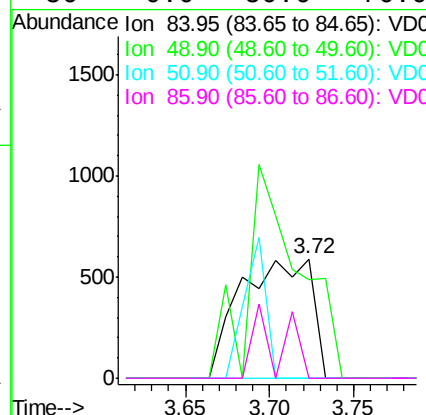
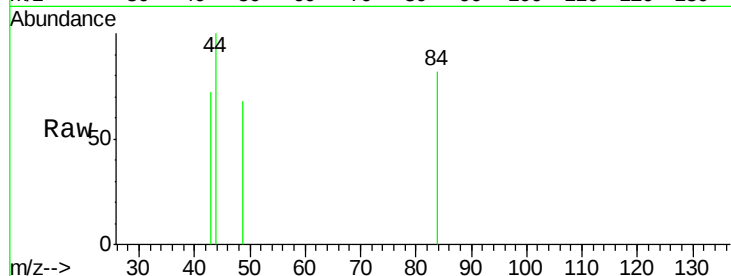




#20
Methylene Chloride
Concen: Below Cal
RT: 3.72 min Scan# 274
Delta R.T. 0.04 min
Lab File: VD060804.D
Acq: 30 Jan 2019 14:31

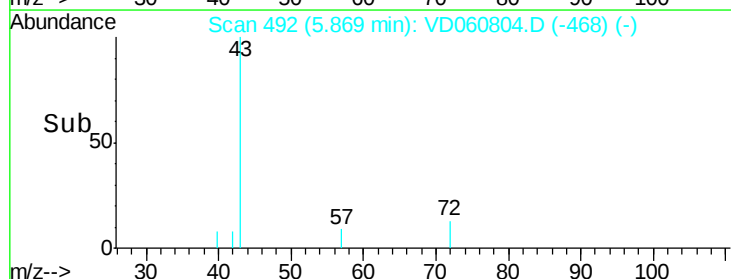
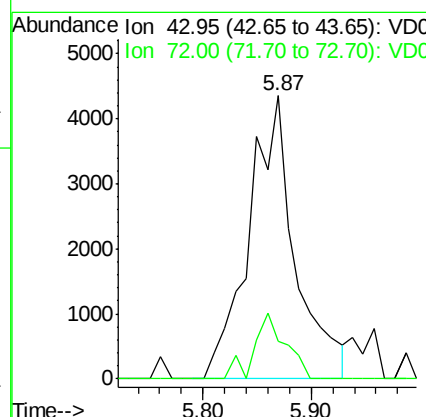
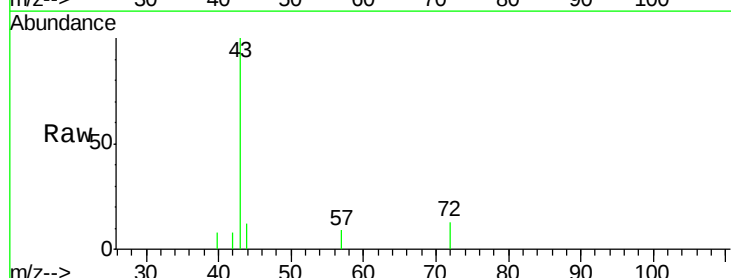
Instrument :
MSVOA_D
ClientSampleId :
TP-2RE

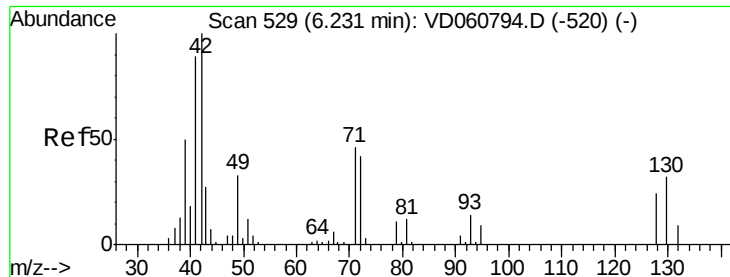
Tot Ion: 84 Resp: 1721
Ion Ratio Lower Upper
84 100
49 82.7 124.2 186.2#
51 0.0 38.1 57.1#
86 0.0 50.6 76.0#



#25
2-Butanone
Concen: 62.305 ug/l
RT: 5.87 min Scan# 492
Delta R.T. 0.03 min
Lab File: VD060804.D
Acq: 30 Jan 2019 14:31

Tgt Ion: 43 Resp: 13016
Ion Ratio Lower Upper
43 100
72 13.4 14.4 21.6#

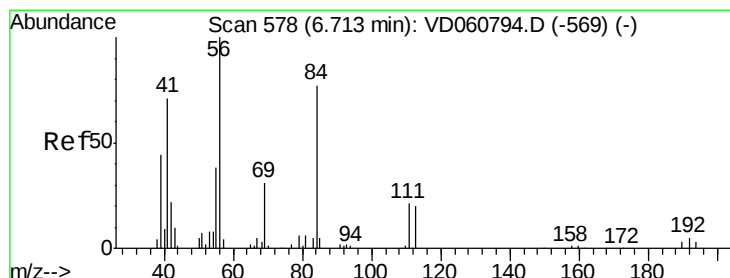
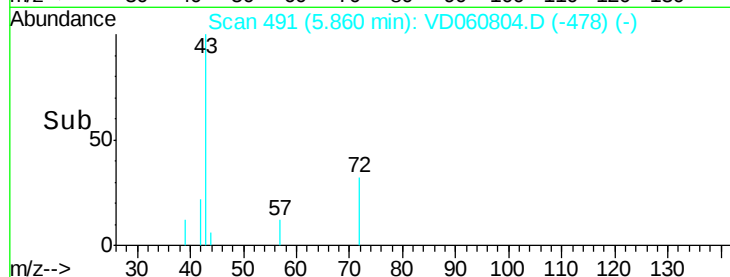
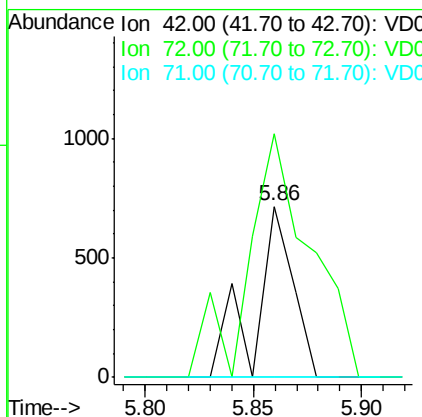
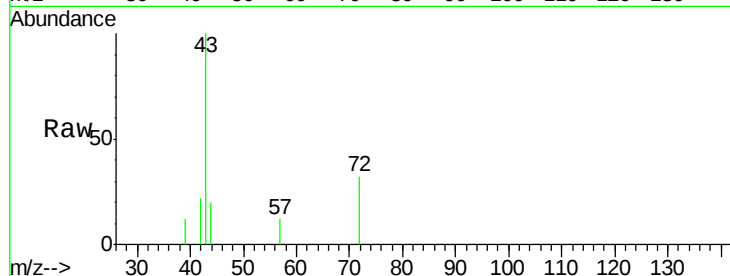




#29
Tetrahydrofuran
Concen: 8.622 ug/l
RT: 5.86 min Scan# 491
Delta R.T. -0.37 min
Lab File: VD060804.D
Acq: 30 Jan 2019 14:31

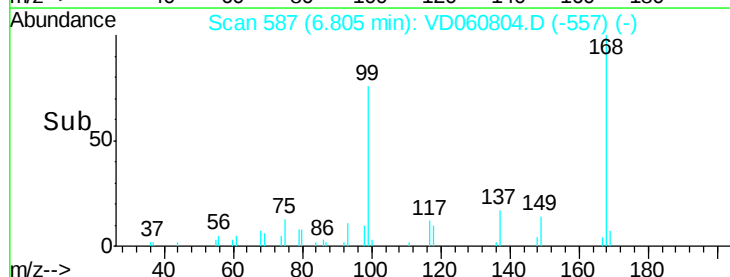
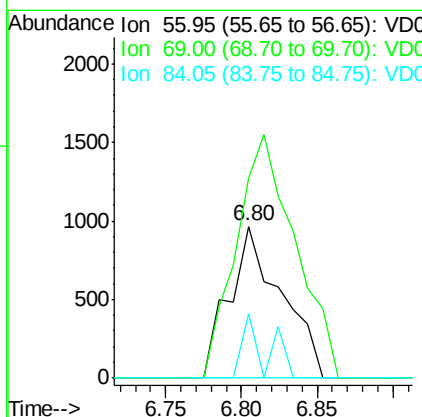
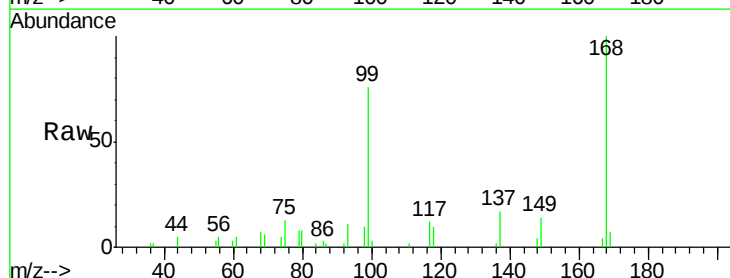
Instrument :
MSVOA_D
ClientSampled :
TP-2RE

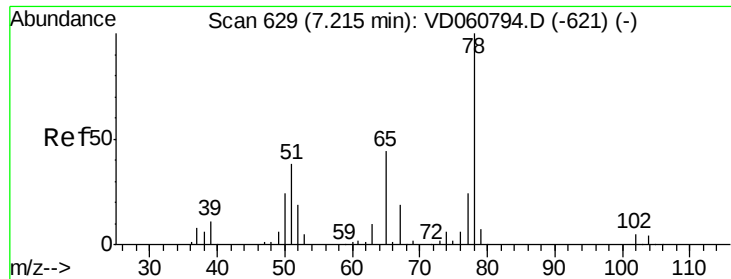
Tot Ion: 42 Resp: 865
Ion Ratio Lower Upper
42 100
72 235.3 32.8 49.2#
71 0.0 34.6 52.0#



#31
Cyclohexane
Concen: 2.235 ug/l
RT: 6.80 min Scan# 587
Delta R.T. 0.09 min
Lab File: VD060804.D
Acq: 30 Jan 2019 14:31

Tgt Ion: 56 Resp: 2318
Ion Ratio Lower Upper
56 100
69 132.0 25.1 37.7#
84 42.2 63.9 95.9#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.24 min Scan# 631

Delta R.T. 0.02 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

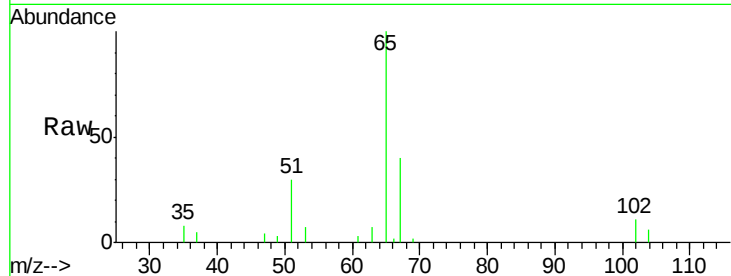
TP-2RE

Tot Ion: 65 Resp: 63851

Ion Ratio Lower Upper

65 100

67 39.8 0.0 85.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.24

25000

20000

15000

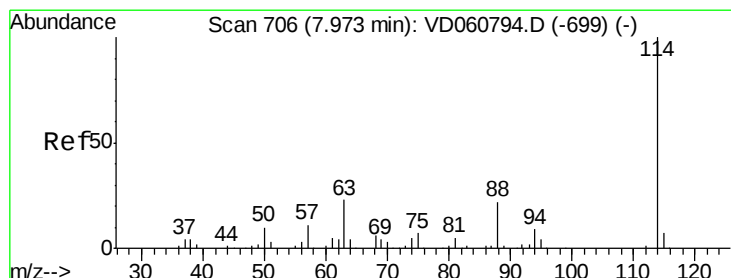
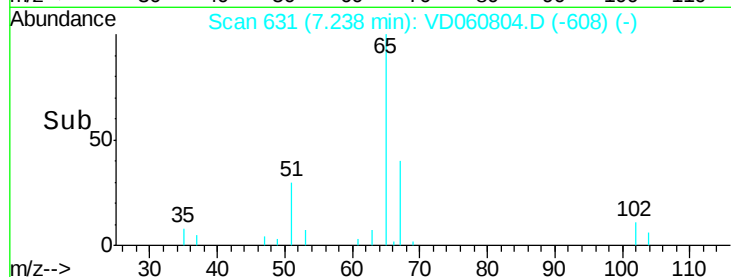
10000

5000

0

Time-->

7.10 7.20 7.30 7.40



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.00 min Scan# 708

Delta R.T. 0.02 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

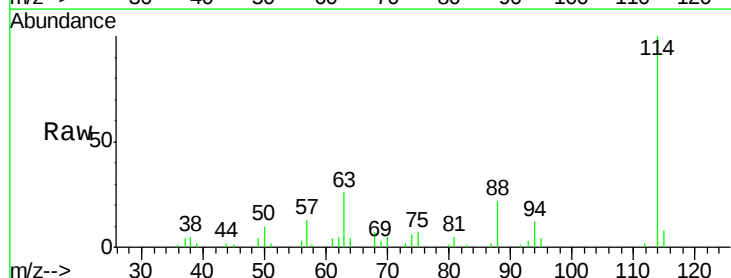
Tgt Ion: 114 Resp: 98873

Ion Ratio Lower Upper

114 100

63 25.8 0.0 46.6

88 22.0 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

8.00

50000

40000

30000

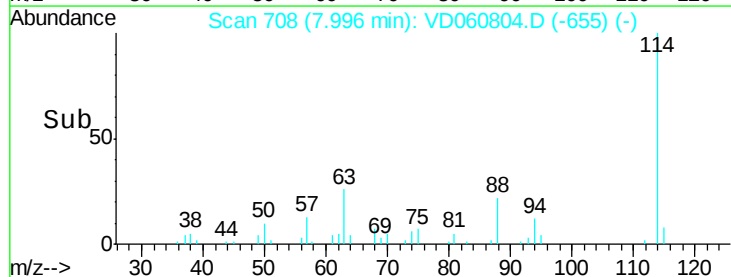
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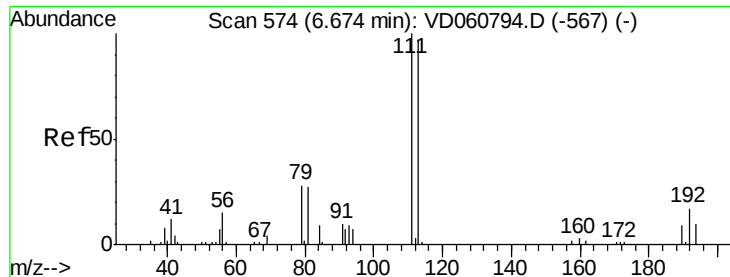
10000

0

Time-->

7.90 8.00 8.10





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.70 min Scan# 576

Delta R.T. 0.02 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

TP-2RE

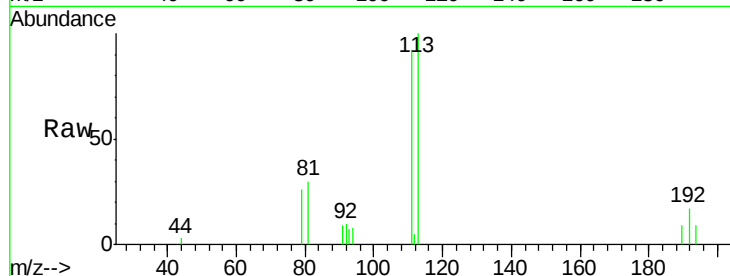
Tot Ion:113 Resp: 43929

Ion Ratio Lower Upper

113 100

111 91.9 82.3 123.5

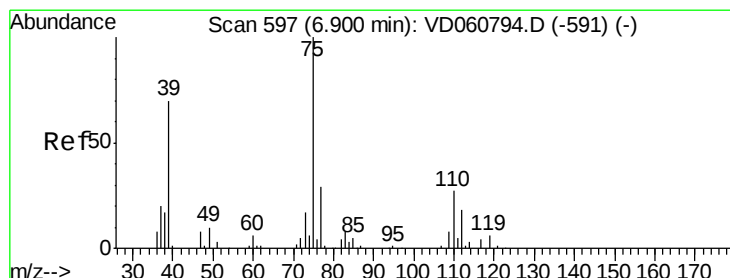
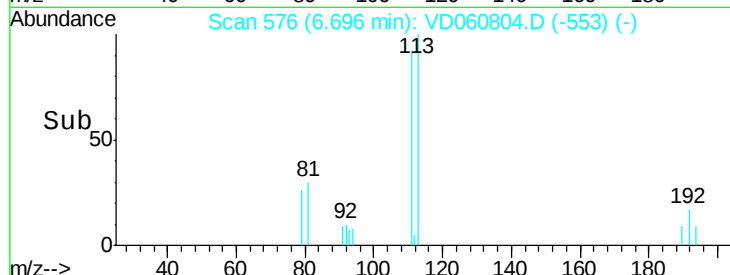
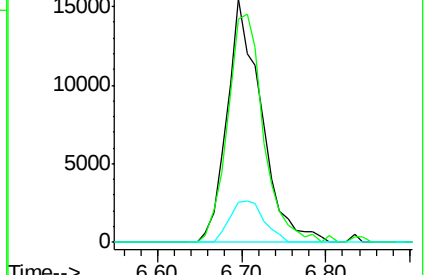
192 16.7 14.4 21.6



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: 5.512 ug/l

RT: 6.81 min Scan# 588

Delta R.T. -0.09 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

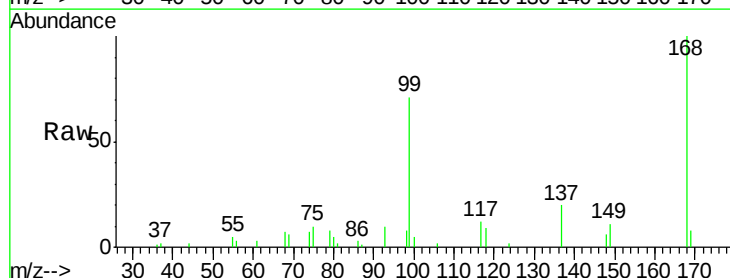
Tgt Ion: 75 Resp: 6507

Ion Ratio Lower Upper

75 100

110 0.0 13.5 40.4#

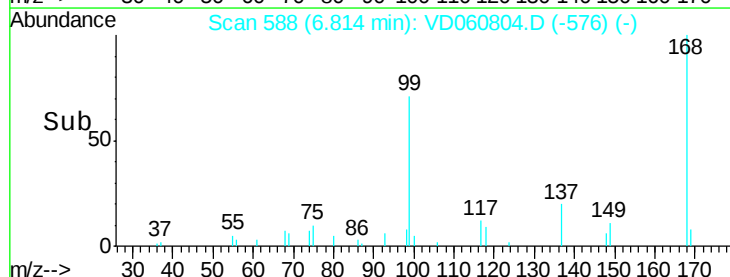
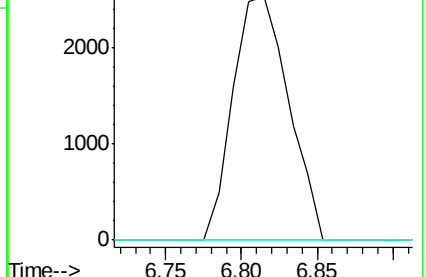
77 0.0 23.4 35.2#

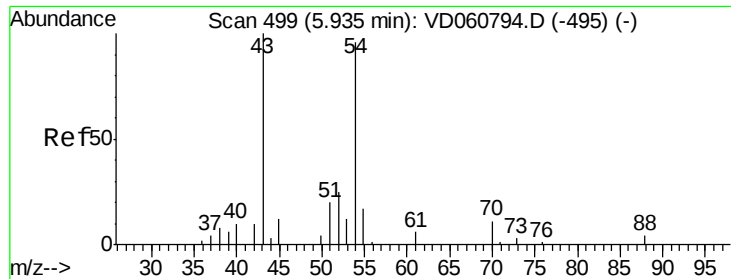


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC





#37

Ethyl Acetate

Concen: 24.699 ug/l

RT: 5.87 min Scan# 492

Delta R.T. -0.07 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

TP-2RE

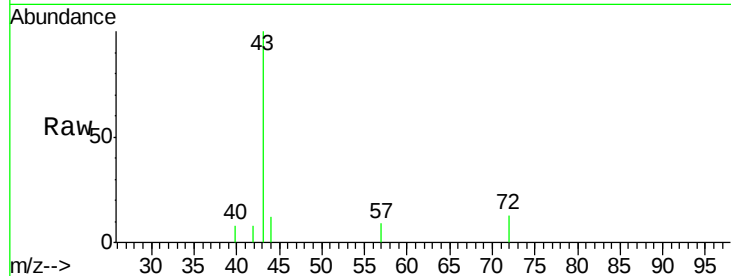
Tot Ion: 43 Resp: 13016

Ion Ratio Lower Upper

43 100

61 0.0 12.3 18.5#

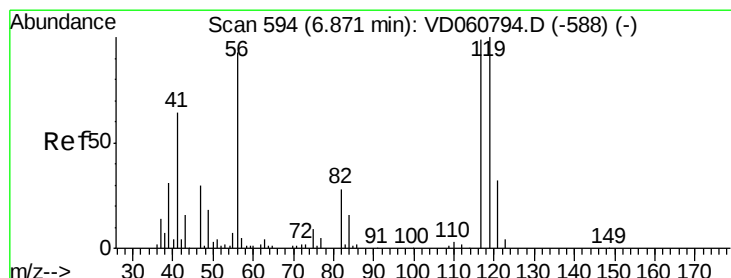
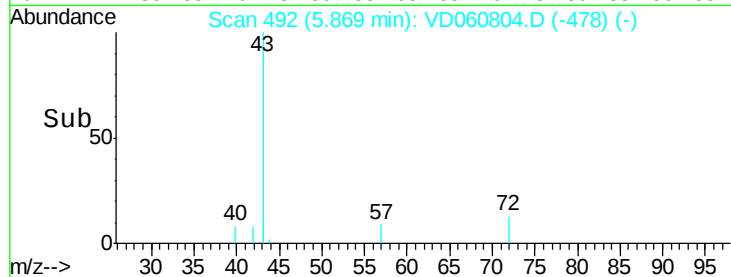
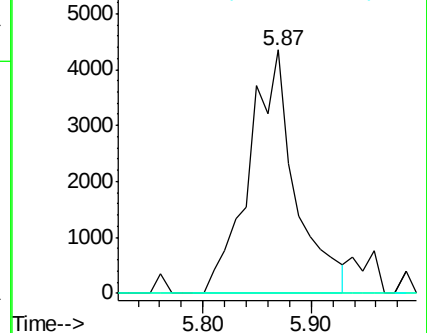
70 0.0 7.4 11.0#



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



#38

Carbon Tetrachloride

Concen: 5.221 ug/l

RT: 6.81 min Scan# 588

Delta R.T. -0.06 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

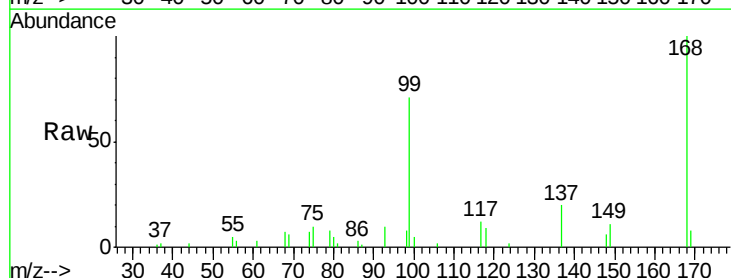
Tgt Ion: 117 Resp: 7729

Ion Ratio Lower Upper

117 100

119 0.0 75.6 113.4#

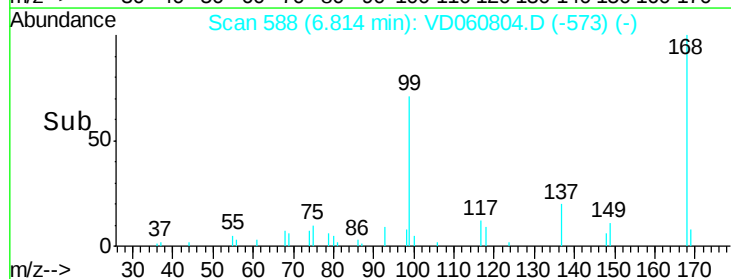
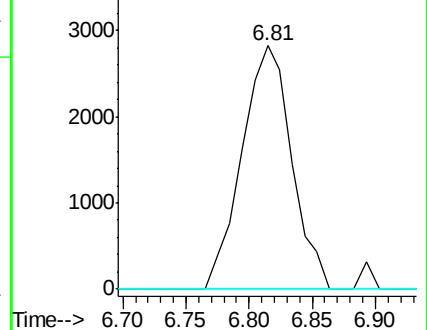
121 0.0 23.4 35.2#

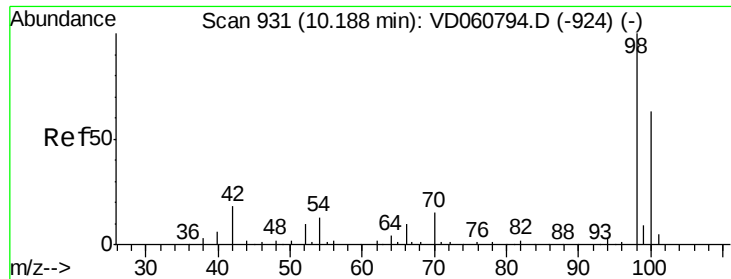


Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V

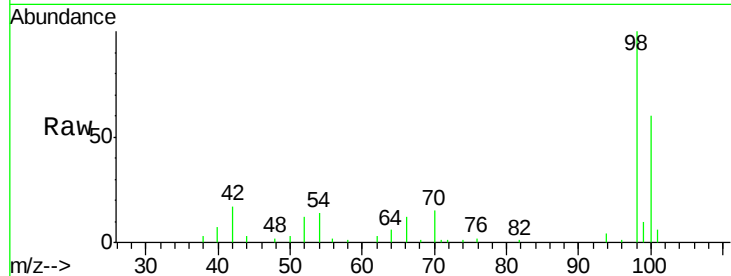




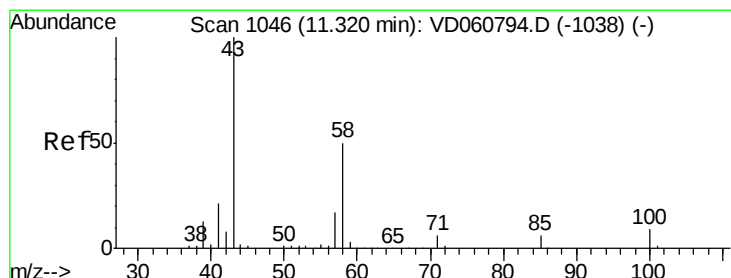
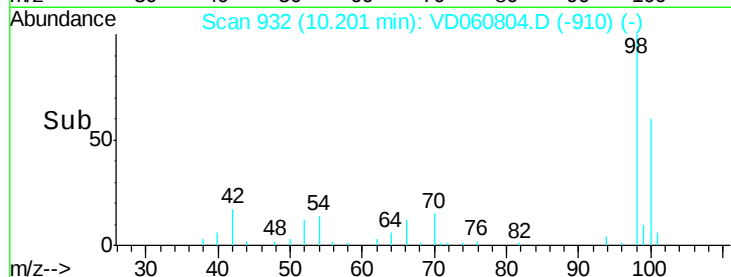
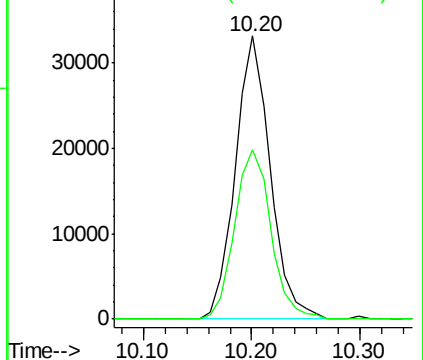
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.20 min Scan# 932
Delta R.T. 0.01 min
Lab File: VD060804.D
Acq: 30 Jan 2019 14:31

Instrument :
MSVOA_D
ClientSampled :
TP-2RE

Tot Ion: 98 Resp: 74395
Ion Ratio Lower Upper
98 100
100 59.9 51.0 76.6

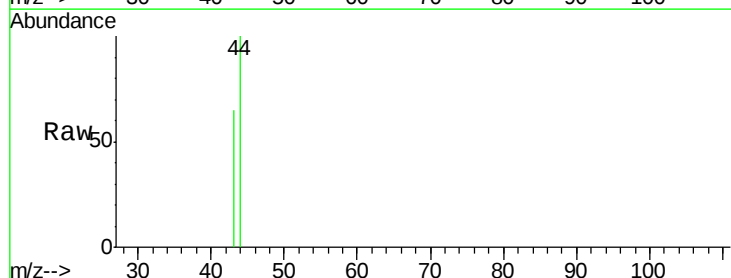


Abundance Ion 98.05 (97.75 to 98.75): VDC
Ion 100.05 (99.75 to 100.75): VDC

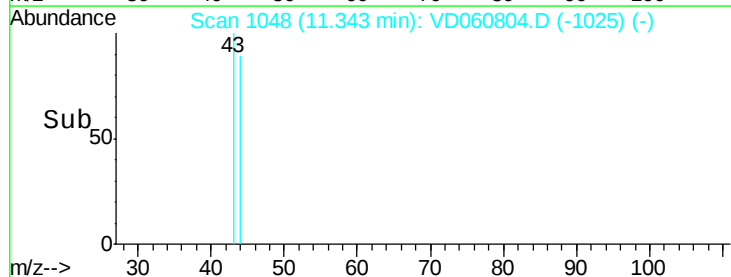
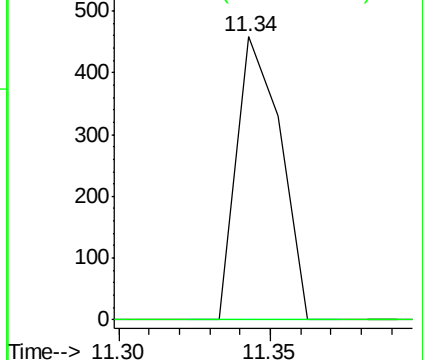


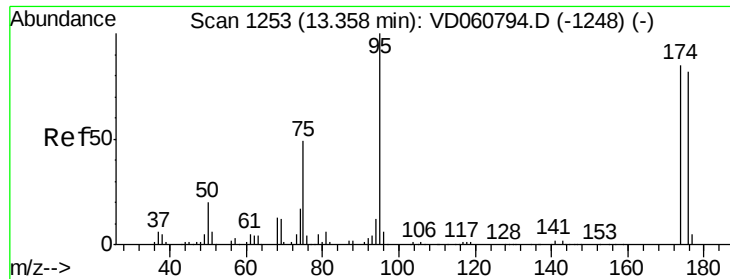
#59
2-Hexanone
Concen: 1.392 ug/l
RT: 11.34 min Scan# 1048
Delta R.T. 0.02 min
Lab File: VD060804.D
Acq: 30 Jan 2019 14:31

Tgt Ion: 43 Resp: 466
Ion Ratio Lower Upper
43 100
58 0.0 25.0 75.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.36 min Scan# 1253

Delta R.T. 0.00 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

TP-2RE

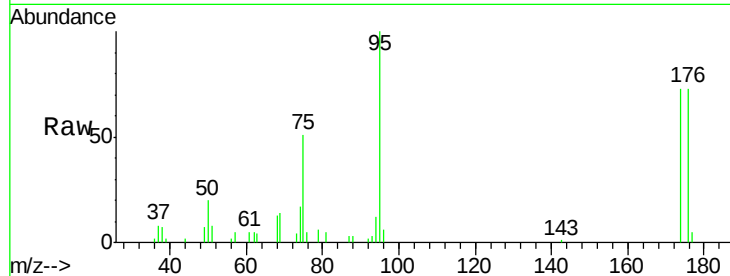
Tot Ion: 95 Resp: 32129

Ion Ratio Lower Upper

95 100

174 73.0 0.0 169.6

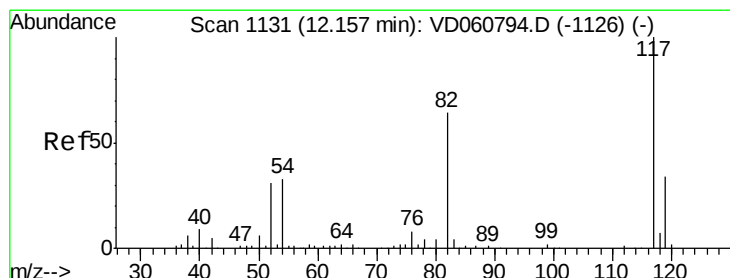
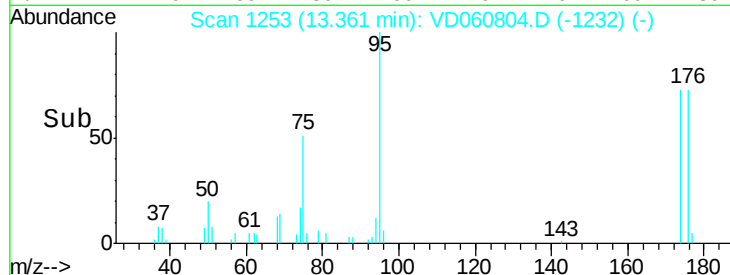
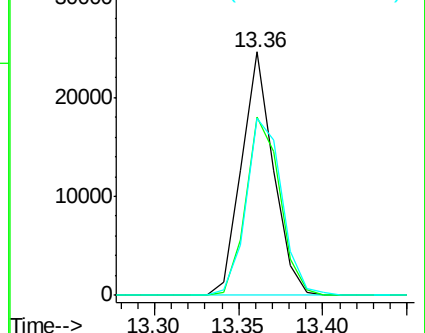
176 72.9 0.0 163.8



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: 12.17 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

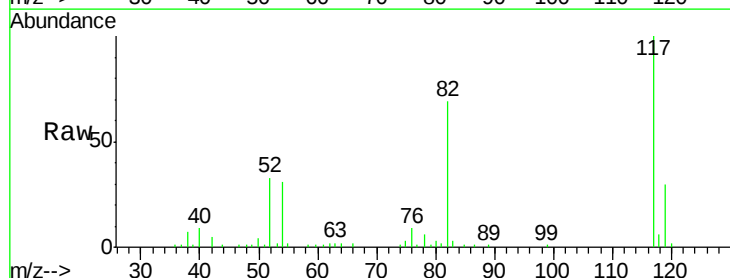
Tgt Ion: 117 Resp: 78527

Ion Ratio Lower Upper

117 100

82 68.6 51.5 77.3

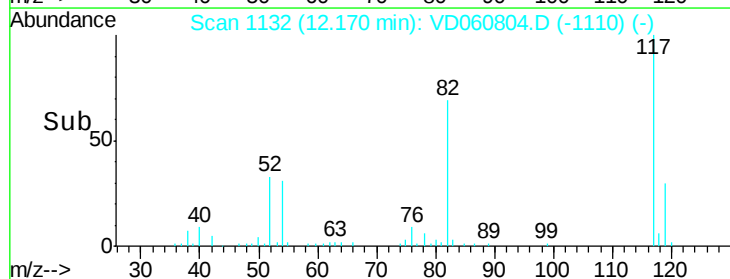
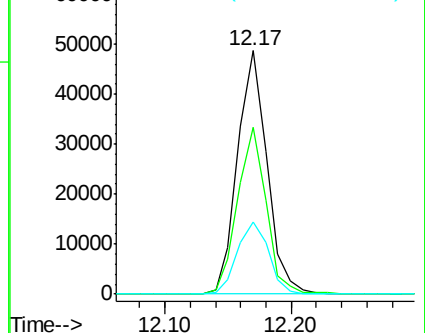
119 29.7 27.1 40.7

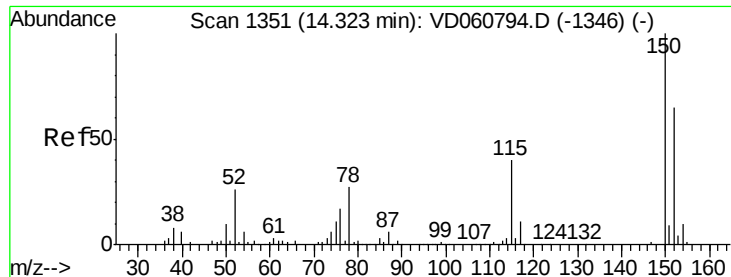


Abundance Ion 116.95 (116.65 to 117.65): V

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. 0.00 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

TP-2RE

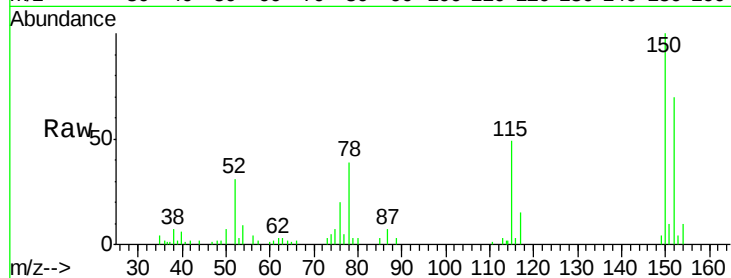
Tot Ion:152 Resp: 31369

Ion Ratio Lower Upper

152 100

115 71.0 31.6 95.0

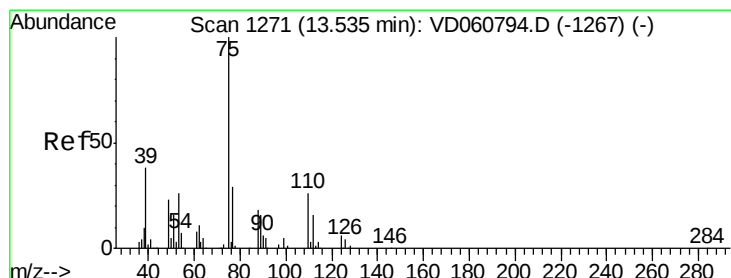
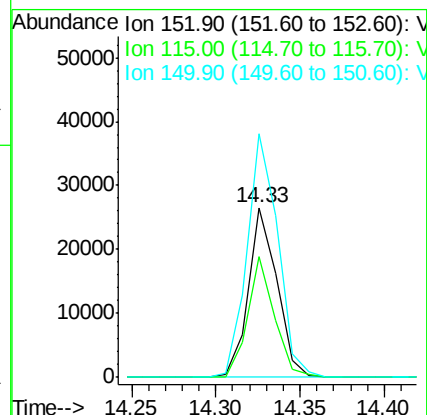
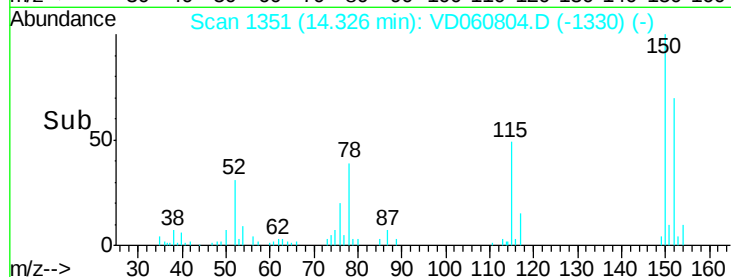
150 143.7 0.0 317.6



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



#76

1,2,3-Trichloropropane

Concen: 20.138 ug/l

RT: 13.36 min Scan# 1253

Delta R.T. -0.17 min

Lab File: VD060804.D

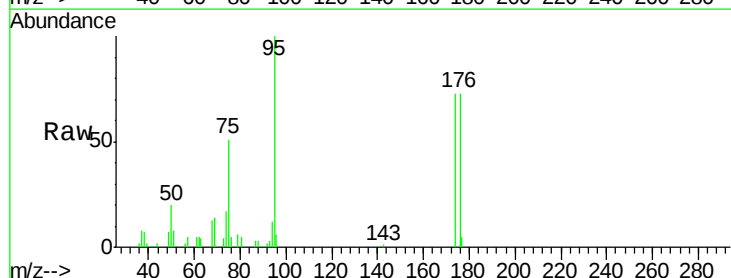
Acq: 30 Jan 2019 14:31

Tgt Ion: 75 Resp: 11584

Ion Ratio Lower Upper

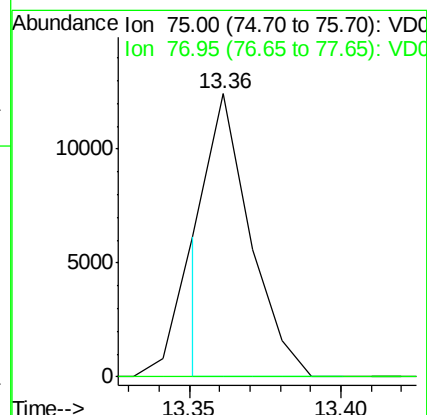
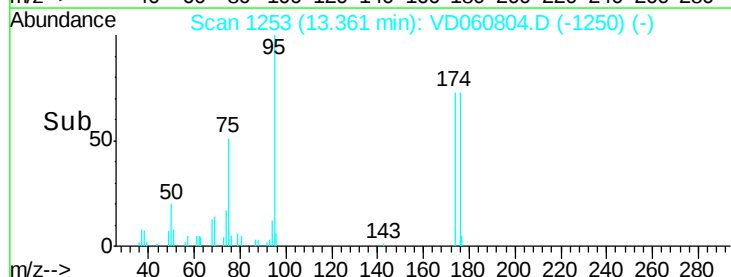
75 100

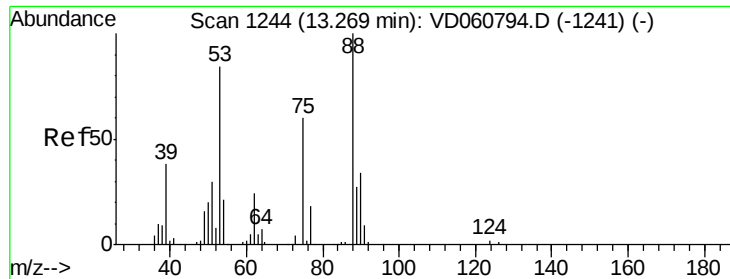
77 0.0 15.9 47.7#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#81

trans-1,4-Dichloro-2-butene

Concen: 104.662 ug/l

RT: 13.36 min Scan# 1253

Delta R.T. 0.09 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

TP-2RE

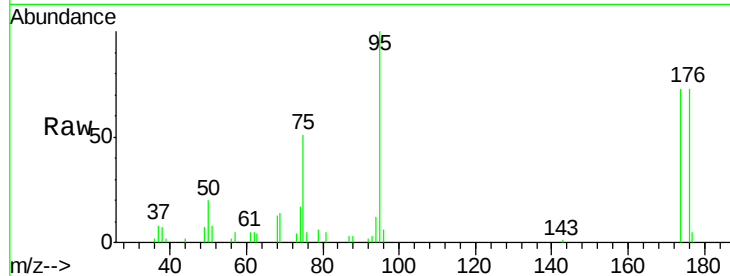
Tot Ion: 75 Resp: 15696

Ion Ratio Lower Upper

75 100

53 0.0 111.6 167.4#

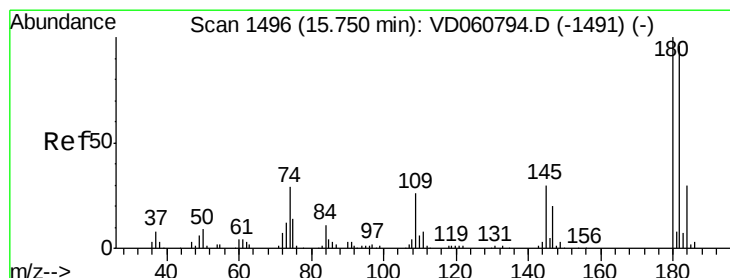
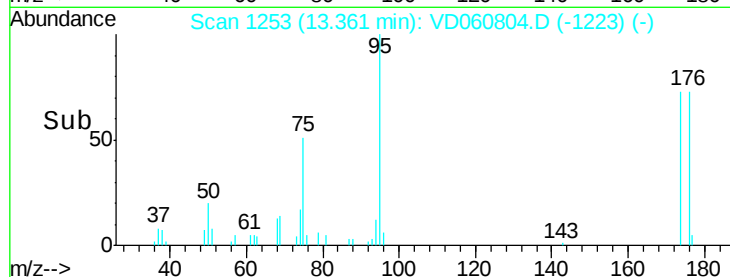
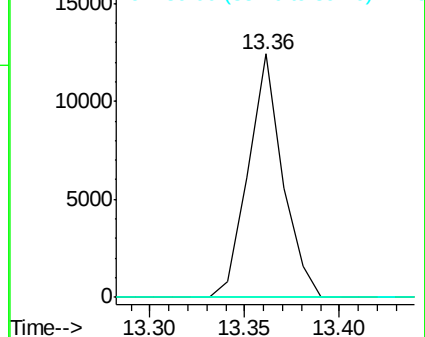
89 0.0 35.9 53.9#



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



#93

1,2,4-Trichlorobenzene

Concen: 1.558 ug/l

RT: 15.75 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

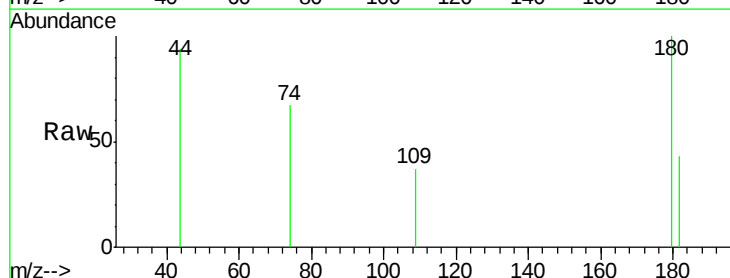
Tgt Ion: 180 Resp: 1288

Ion Ratio Lower Upper

180 100

182 43.2 47.9 143.7#

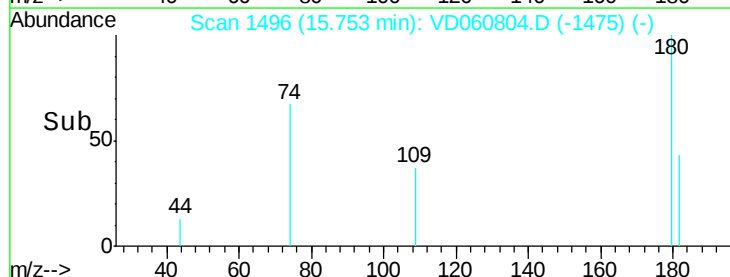
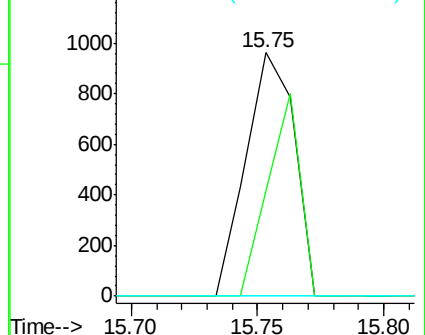
145 0.0 15.0 45.1#

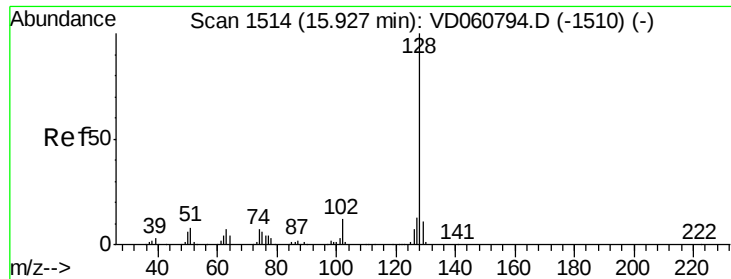


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#95

Naphthalene

Concen: 1.992 ug/l

RT: 15.93 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VD060804.D

Acq: 30 Jan 2019 14:31

Instrument :

MSVOA_D

ClientSampleId :

TP-2RE

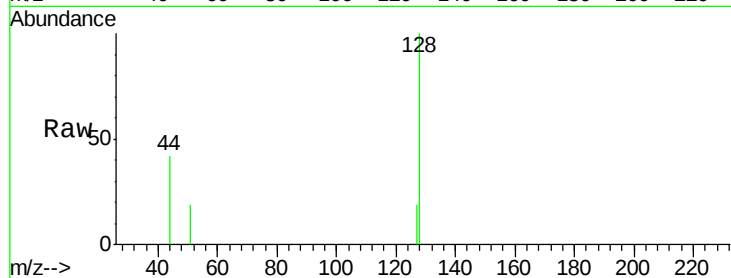
Tot Ion:128 Resp: 2529

Ion Ratio Lower Upper

128 100

127 18.6 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

