

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032219\
 Data File : VD061260.D
 Acq On : 22 Mar 2019 14:56
 Operator : VA/AP
 Sample : K2024-01
 Misc : 8.91g/5ml/MSVOA D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 RCA-08

Quant Time: Mar 22 23:27:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.11	168	223098	50.00	ug/l	0.06
34) 1,4-Difluorobenzene	8.28	114	405852	50.00	ug/l	0.06
63) Chlorobenzene-d5	12.40	117	335575	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	14.55	152	113680	50.00	ug/l	0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.52	65	144074	77.58	ug/l	0.07
Spiked Amount			Recovery	=	155.16%	
35) Dibromofluoromethane	6.99	113	41755	13.86	ug/l	0.06
Spiked Amount			Recovery	=	27.72%	
50) Toluene-d8	10.46	98	375059	49.59	ug/l	0.06
Spiked Amount			Recovery	=	99.18%	
62) 4-Bromofluorobenzene	13.58	95	127077	43.30	ug/l	0.03
Spiked Amount			Recovery	=	86.60%	

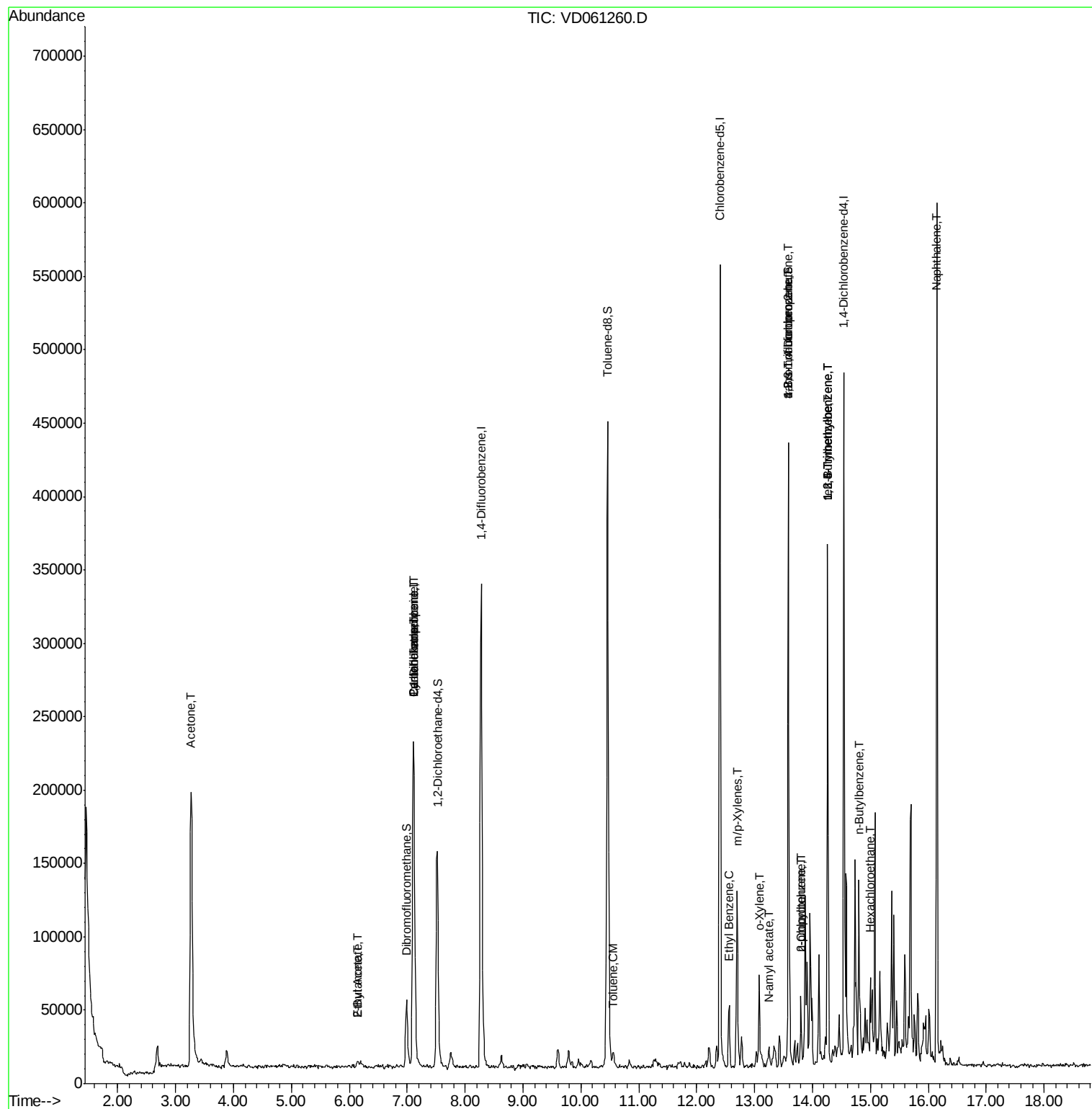
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.18	94	203	Below Cal	#	8
16) Acetone	3.27	43	374004	704.292	ug/l	99
20) Methylene Chloride	3.89	84	7465	Below Cal	#	91
25) 2-Butanone	6.13	43	7376	12.241	ug/l #	55
31) Cyclohexane	7.11	56	4106	1.250	ug/l #	1
36) 1,1-Dichloropropene	7.11	75	15924	4.552	ug/l #	47
37) Ethyl Acetate	6.13	43	7376	4.493	ug/l #	66
38) Carbon Tetrachloride	7.11	117	20732	5.380	ug/l #	11
52) Toluene	10.56	92	5931	1.091	ug/l	88
67) Ethyl Benzene	12.56	91	31691	3.236	ug/l	98
68) m/p-Xylenes	12.70	106	41589	10.819	ug/l	92
69) o-Xylene	13.08	106	17076	4.519	ug/l	94
74) N-amyl acetate	13.25	43	5411	2.346	ug/l #	63
76) 1,2,3-Trichloropropane	13.58	75	45297	27.696	ug/l #	44
78) n-propylbenzene	13.80	91	31741	3.309	ug/l	93
79) 2-Chlorotoluene	13.80	91	31741	6.011	ug/l #	38
80) 1,3,5-Trimethylbenzene	14.26	105	157408	25.308	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.58	75	45297	93.943	ug/l #	17
83) tert-Butylbenzene	14.26	119	18886	2.775	ug/l #	67
84) 1,2,4-Trimethylbenzene	14.26	105	157408	25.308	ug/l	100
89) n-Butylbenzene	14.80	91	17524	2.687	ug/l #	1
90) Hexachloroethane	15.00	117	4030	2.101	ug/l #	13
95) Naphthalene	16.14	128	404020	184.091	ug/l	99

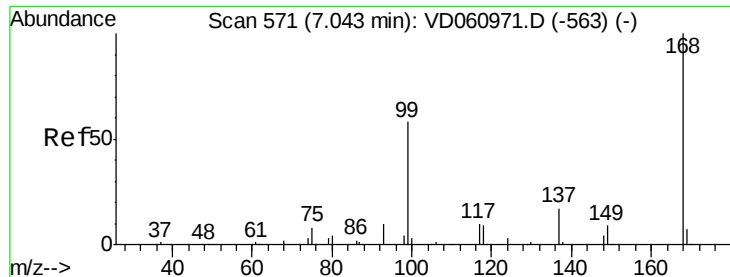
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD032219\
Data File : VD061260.D
Acq On : 22 Mar 2019 14:56
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Misc : 8.91g/5ml/MSVOA D/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
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Quant Time: Mar 22 23:27:25 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.11 min Scan# 577

Delta R.T. 0.06 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

MSVOA_D

ClientSampleId :

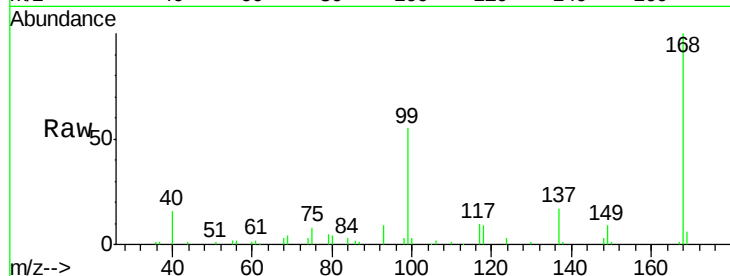
RCA-08

Tot Ion:168 Resp: 223098

Ion Ratio Lower Upper

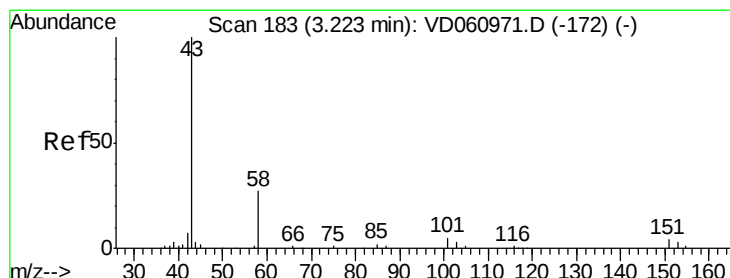
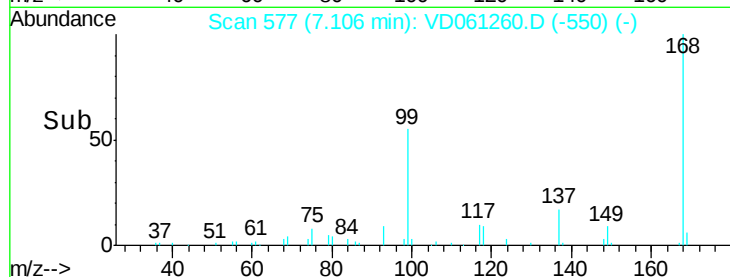
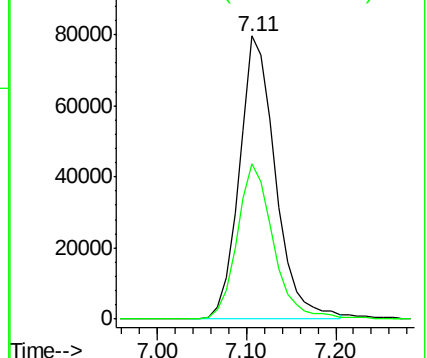
168 100

99 55.1 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 704.292 ug/l

RT: 3.27 min Scan# 187

Delta R.T. 0.04 min

Lab File: VD061260.D

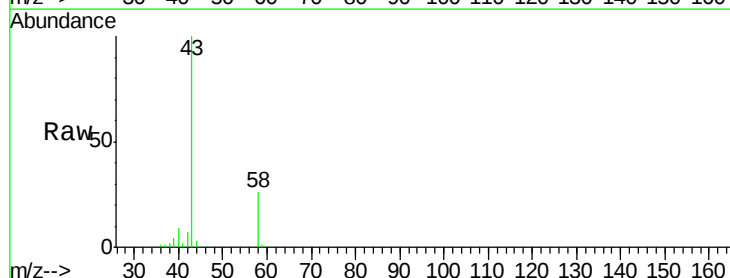
Acq: 22 Mar 2019 14:56

Tgt Ion: 43 Resp: 374004

Ion Ratio Lower Upper

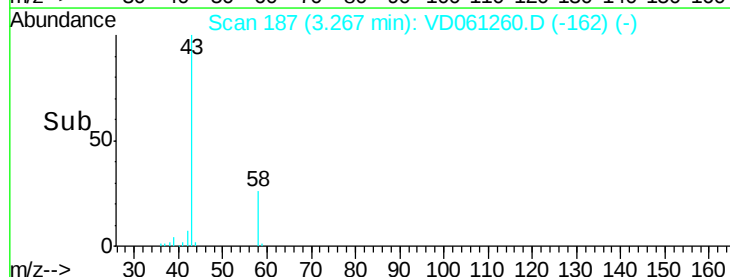
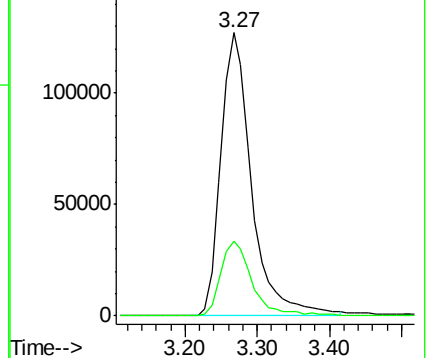
43 100

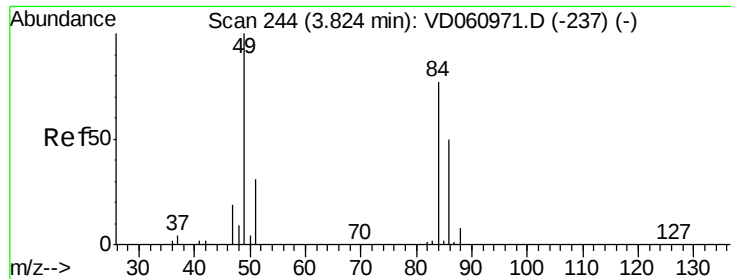
58 26.4 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

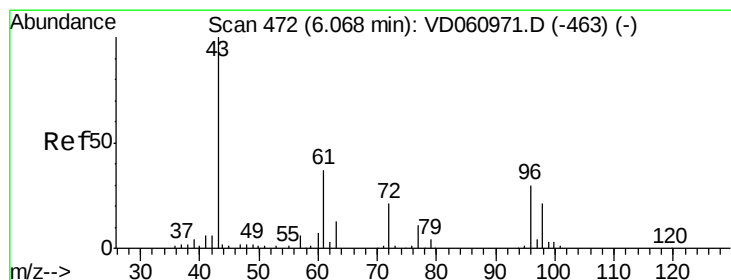
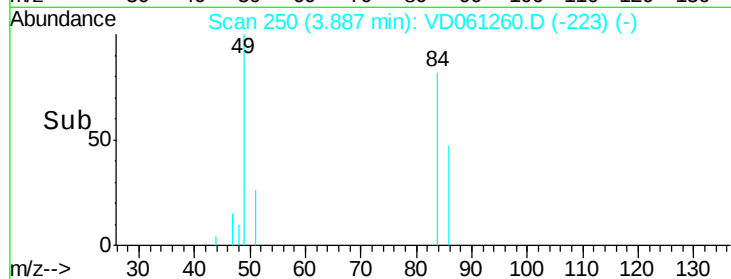
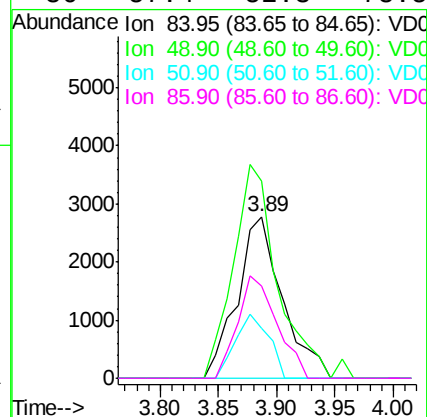
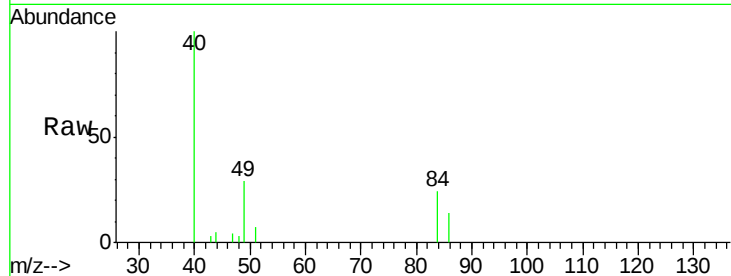




#20
Methvlene Chloride
Concen: Below Cal
RT: 3.89 min Scan# 250
Delta R.T. 0.06 min
Lab File: VD061260.D
Acq: 22 Mar 2019 14:56

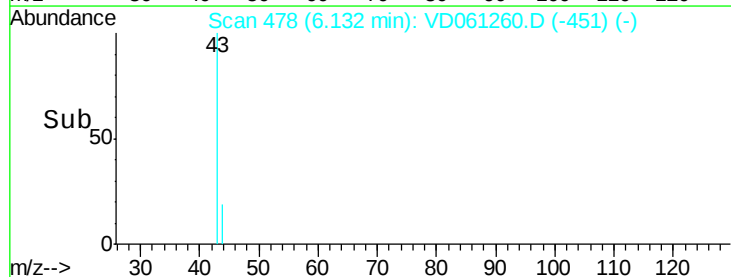
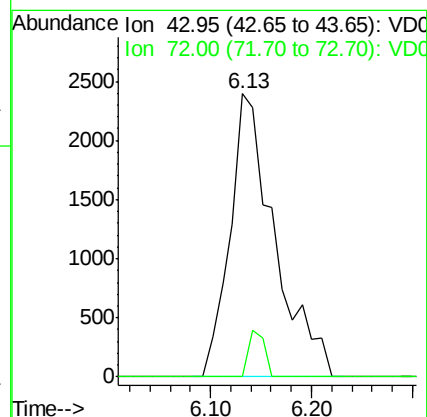
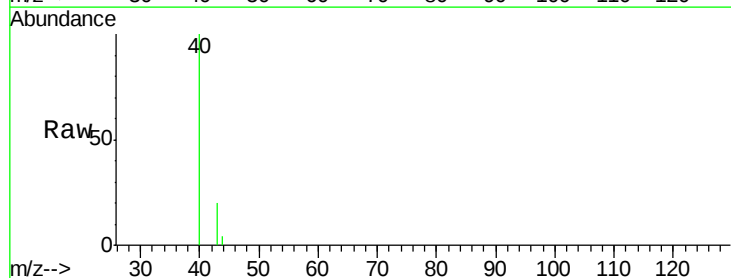
Instrument :
MSVOA_D
ClientSampleId :
RCA-08

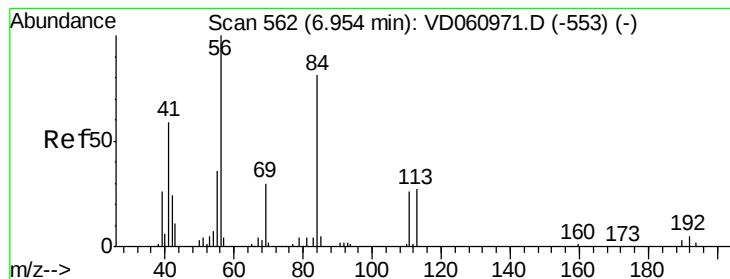
Tot Ion: 84 Resp: 7465
Ion Ratio Lower Upper
84 100
49 121.8 104.2 156.2
51 31.1 32.3 48.5#
86 57.4 52.3 78.5



#25
2-Butanone
Concen: 12.241 ug/l
RT: 6.13 min Scan# 478
Delta R.T. 0.06 min
Lab File: VD061260.D
Acq: 22 Mar 2019 14:56

Tgt Ion: 43 Resp: 7376
Ion Ratio Lower Upper
43 100
72 0.0 16.7 25.1#





#31

Cyclohexane

Concen: 1.250 ug/l

RT: 7.11 min Scan# 577

Delta R.T. 0.15 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

MSVOA_D

ClientSampleId :

RCA-08

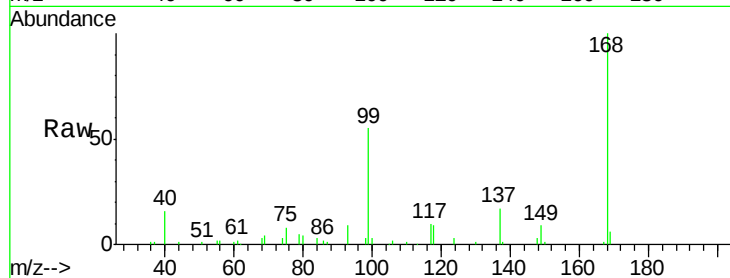
Tot Ion: 56 Resp: 4106

Ion Ratio Lower Upper

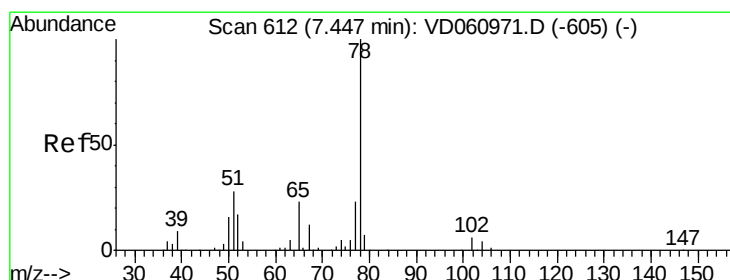
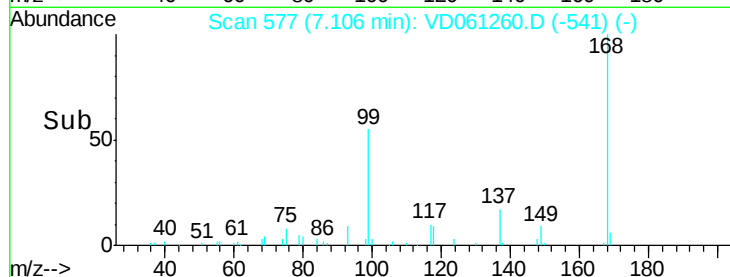
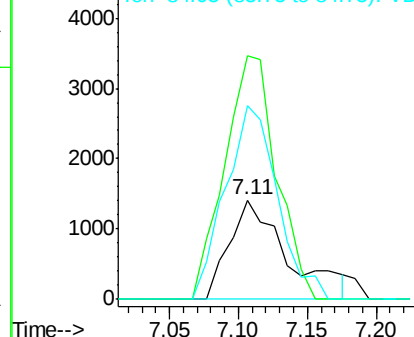
56 100

69 244.6 24.0 36.0#

84 194.5 65.8 98.6#



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: 7.52 min Scan# 619

Delta R.T. 0.07 min

Lab File: VD061260.D

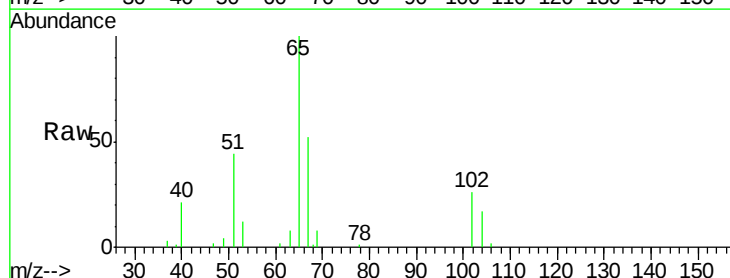
Acq: 22 Mar 2019 14:56

Tgt Ion: 65 Resp: 144074

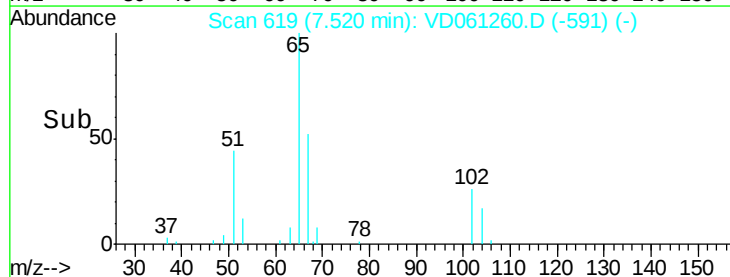
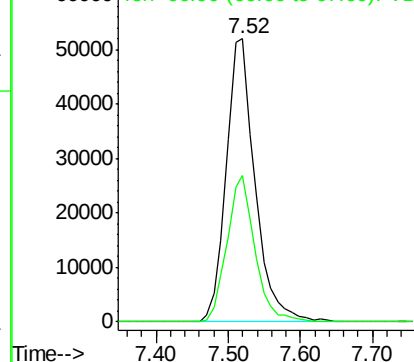
Ion Ratio Lower Upper

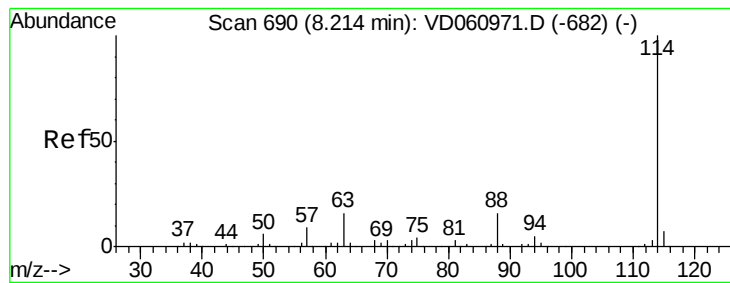
65 100

67 51.6 0.0 105.2



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: 8.28 min Scan# 696

Delta R.T. 0.06 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

MSVOA_D

ClientSampleId :

RCA-08

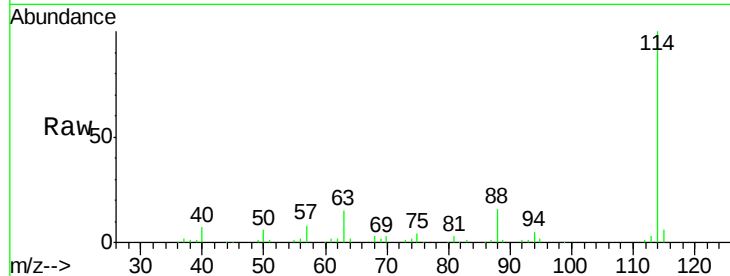
Tot Ion:114 Resp: 405852

Ion Ratio Lower Upper

114 100

63 14.8 0.0 31.4

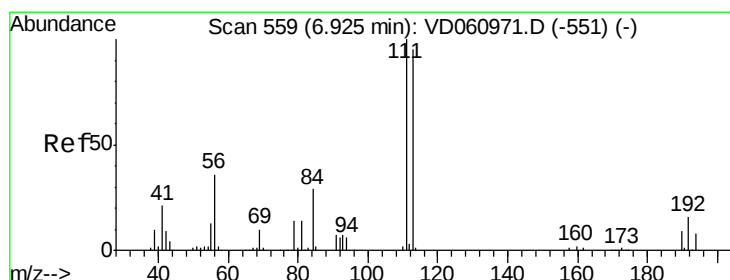
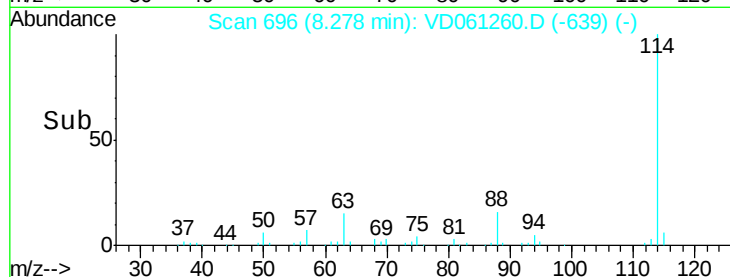
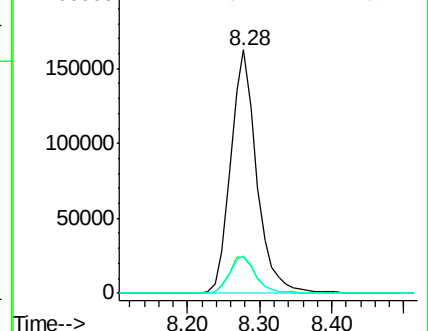
88 15.5 0.0 33.0



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: 6.99 min Scan# 565

Delta R.T. 0.06 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

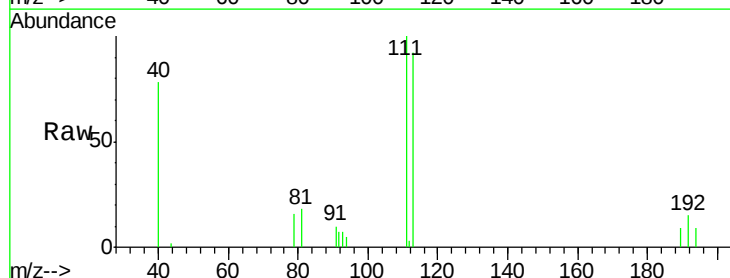
Tgt Ion:113 Resp: 41755

Ion Ratio Lower Upper

113 100

111 108.7 84.2 126.4

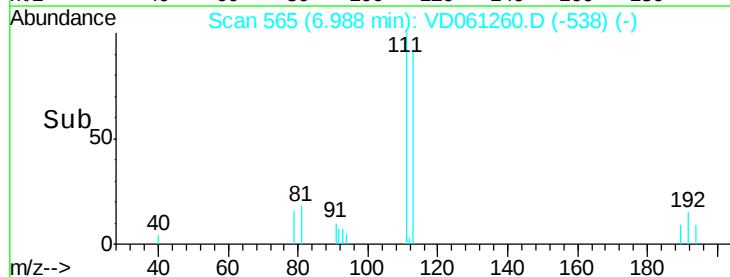
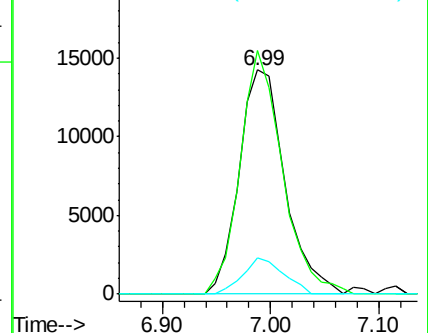
192 16.4 13.1 19.7

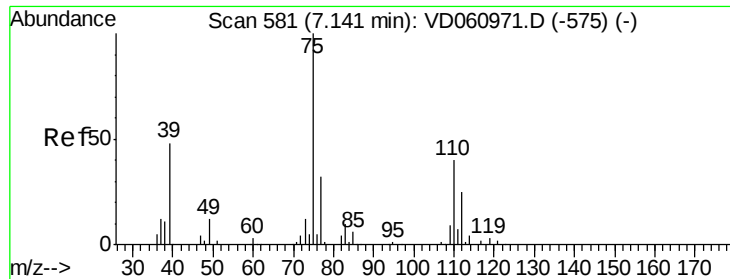


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 4.552 ug/l

RT: 7.11 min Scan# 577

Delta R.T. -0.04 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

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ClientSampleId :

RCA-08

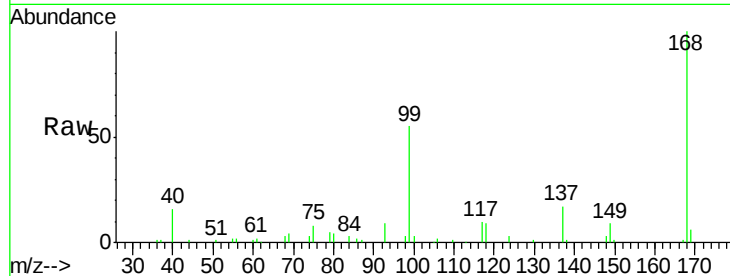
Tot Ion: 75 Resp: 15924

Ion Ratio Lower Upper

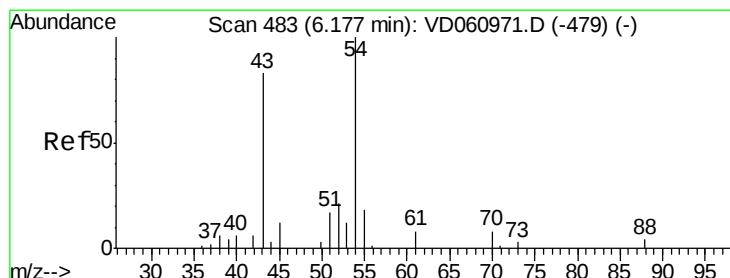
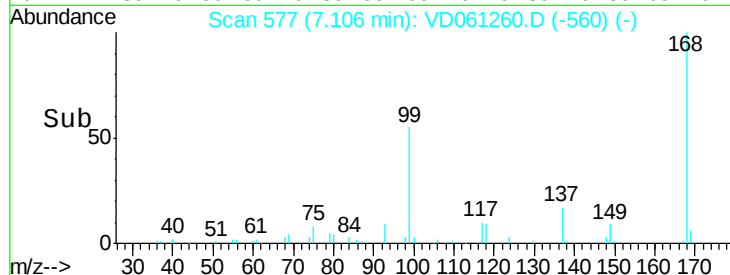
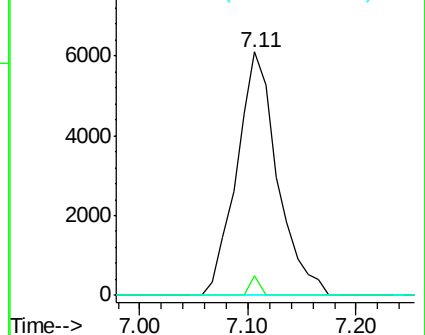
75 100

110 8.1 19.7 59.1#

77 0.0 24.7 37.1#



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



#37

Ethyl Acetate

Concen: 4.493 ug/l

RT: 6.13 min Scan# 478

Delta R.T. -0.04 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

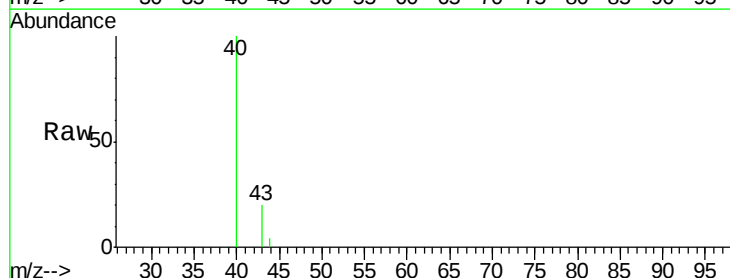
Tgt Ion: 43 Resp: 7376

Ion Ratio Lower Upper

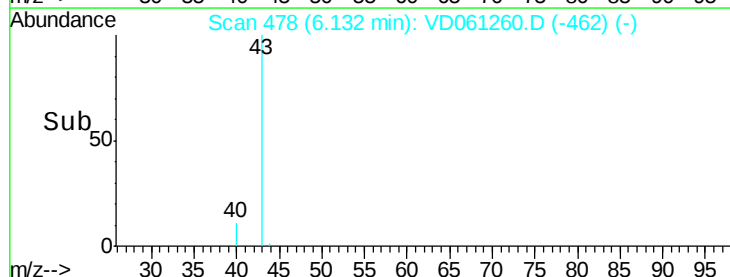
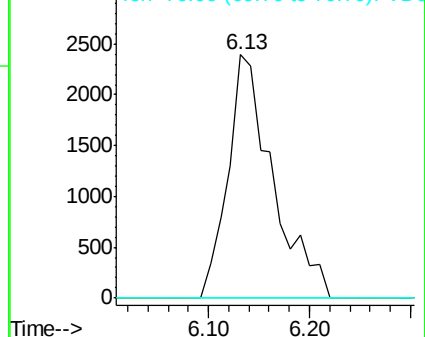
43 100

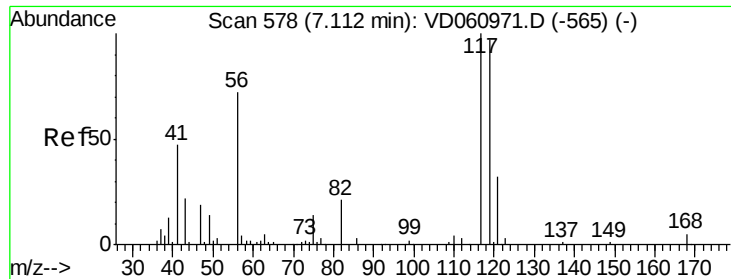
61 0.0 13.7 20.5#

70 0.0 7.1 10.7#



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

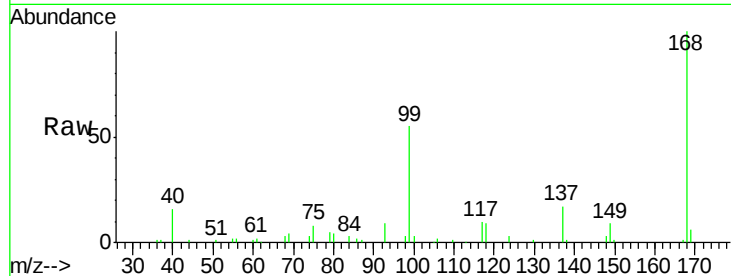




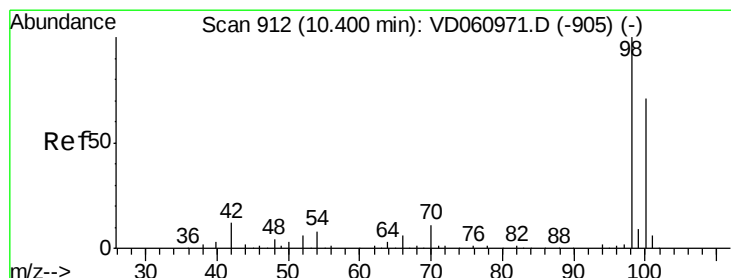
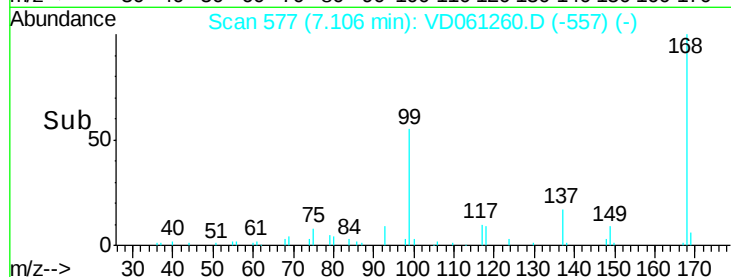
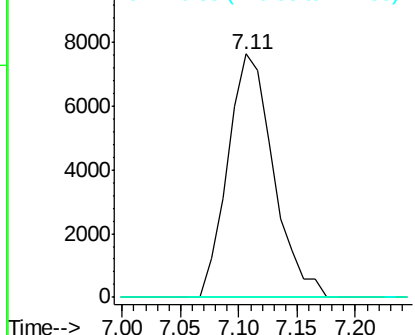
#38
Carbon Tetrachloride
Concen: 5.380 ug/l
RT: 7.11 min Scan# 577
Delta R.T. -0.01 min
Lab File: VD061260.D
Acq: 22 Mar 2019 14:56

Instrument :
MSVOA_D
ClientSampleId :
RCA-08

Tot Ion:117 Resp: 20732
Ion Ratio Lower Upper
117 100
119 0.0 77.8 116.8#
121 0.0 25.3 37.9#

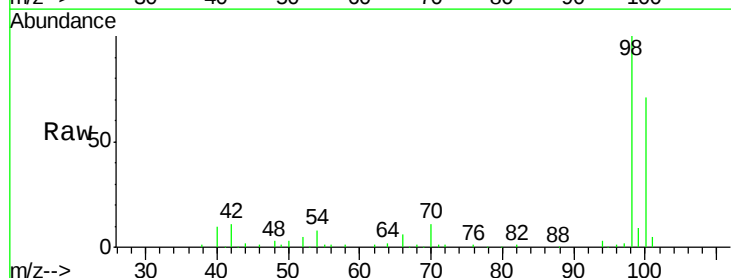


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

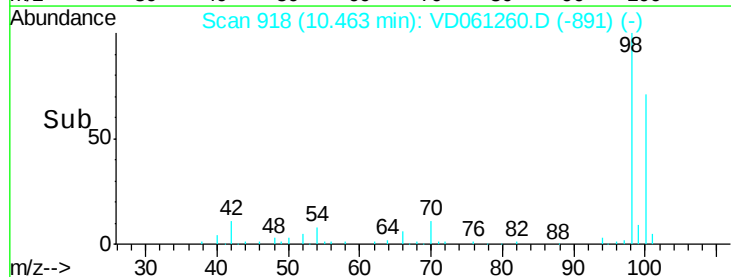
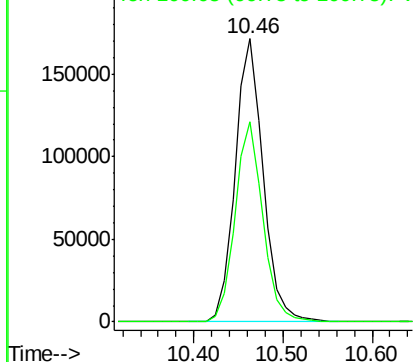


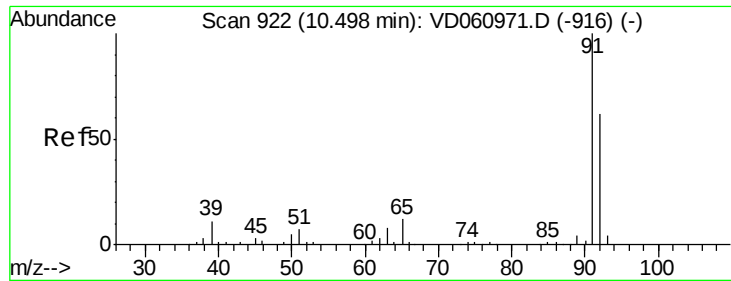
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.46 min Scan# 918
Delta R.T. 0.06 min
Lab File: VD061260.D
Acq: 22 Mar 2019 14:56

Tgt Ion: 98 Resp: 375059
Ion Ratio Lower Upper
98 100
100 70.6 57.4 86.2



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





#52

Toluene

Concen: 1.091 ug/l

RT: 10.56 min Scan# 928

Delta R.T. 0.06 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

MSVOA_D

ClientSampleID :

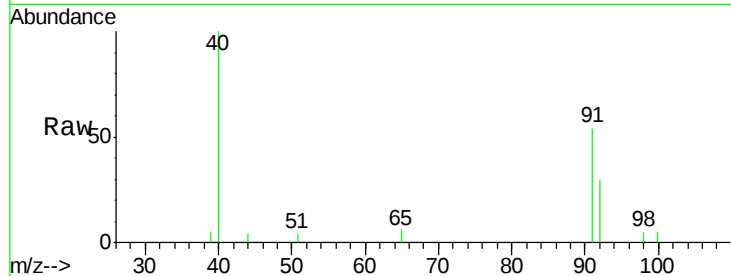
RCA-08

Tot Ion: 92 Resp: 5931

Ion Ratio Lower Upper

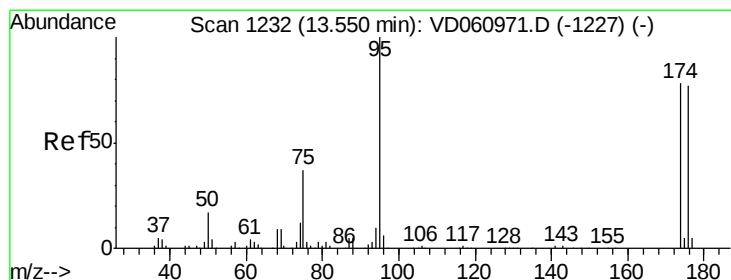
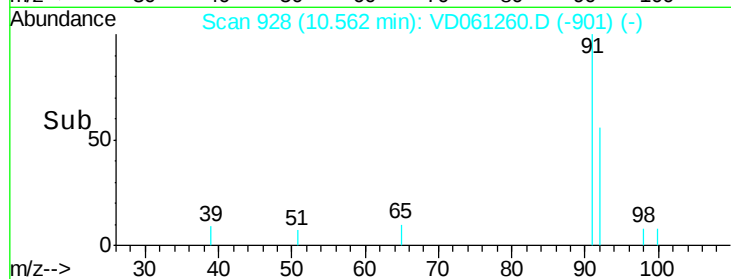
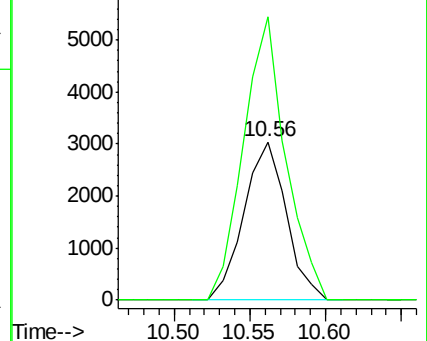
92 100

91 178.9 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.03 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

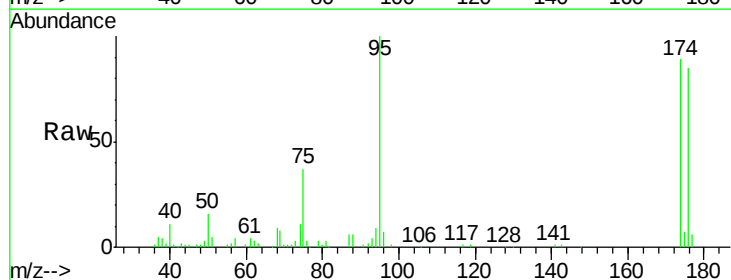
Tgt Ion: 95 Resp: 127077

Ion Ratio Lower Upper

95 100

174 89.3 0.0 155.6

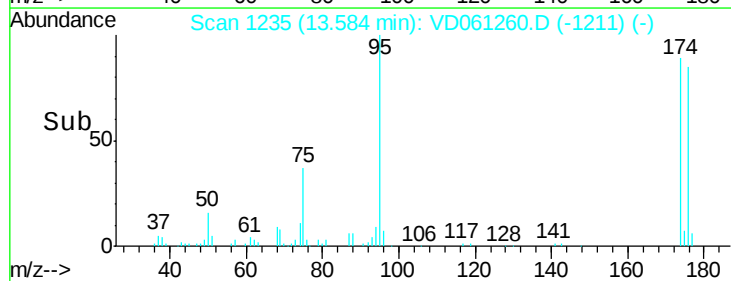
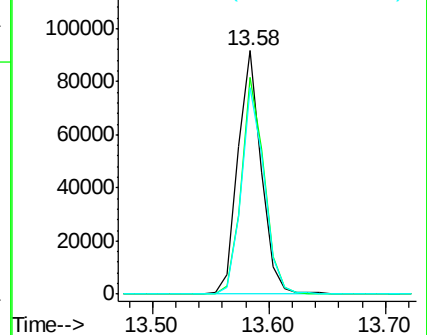
176 84.7 0.0 153.8

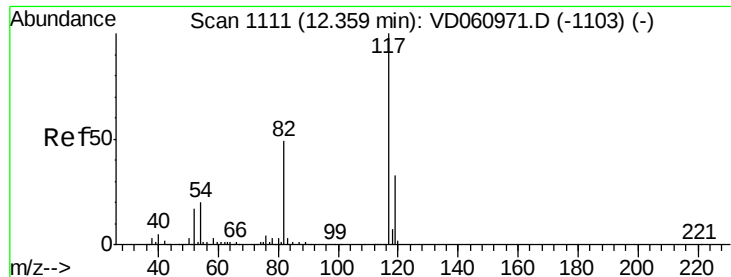


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

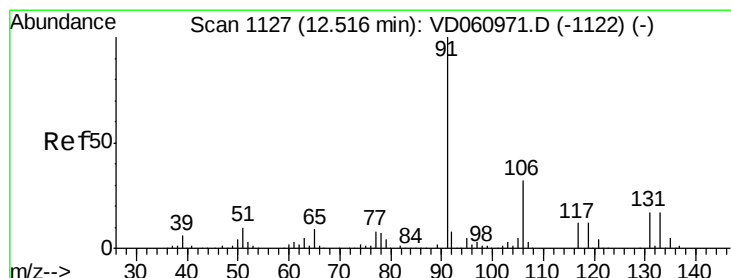
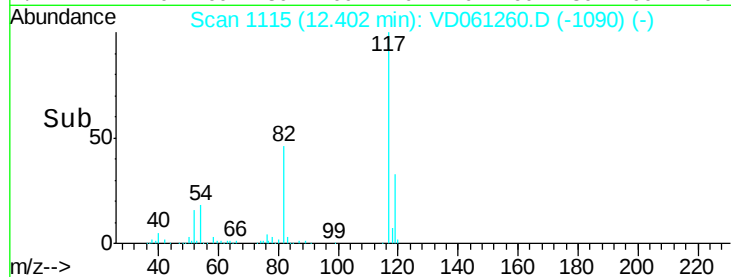
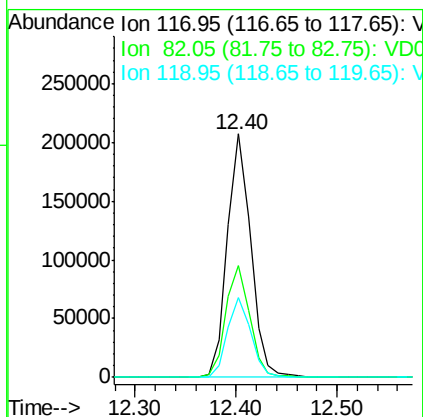
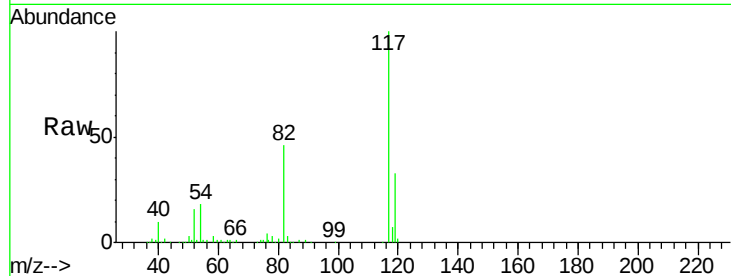




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.40 min Scan# 1115
Delta R.T. 0.04 min
Lab File: VD061260.D
Acq: 22 Mar 2019 14:56

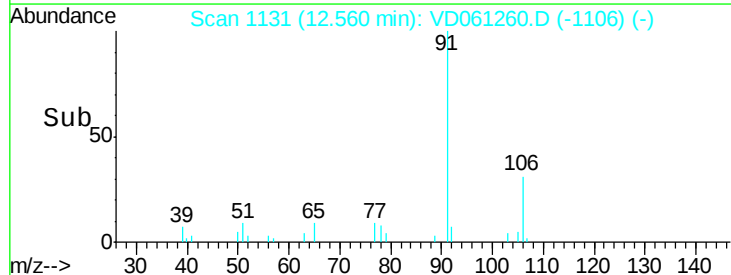
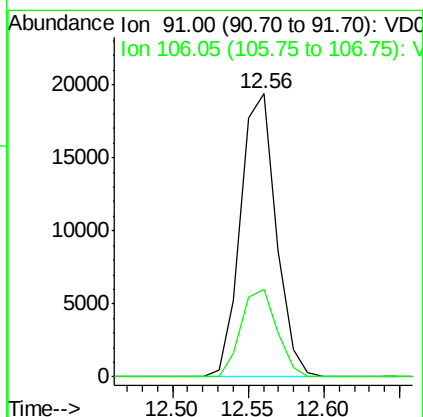
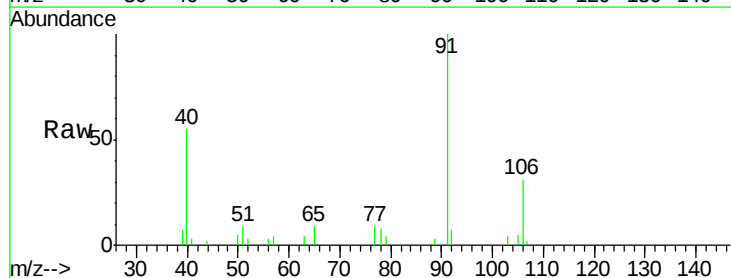
Instrument :
MSVOA_D
ClientSampleId :
RCA-08

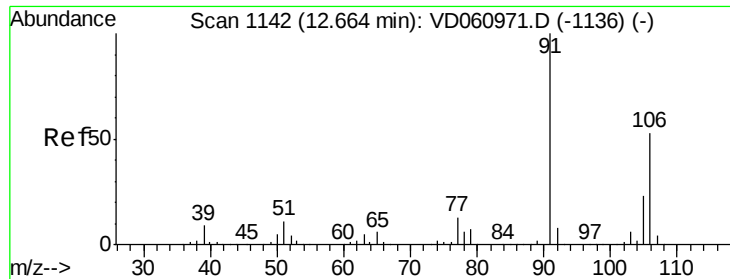
Tot Ion:117 Resp: 335575
Ion Ratio Lower Upper
117 100
82 45.7 38.9 58.3
119 32.7 26.6 39.8



#67
Ethyl Benzene
Concen: 3.236 ug/l
RT: 12.56 min Scan# 1131
Delta R.T. 0.04 min
Lab File: VD061260.D
Acq: 22 Mar 2019 14:56

Tgt Ion: 91 Resp: 31691
Ion Ratio Lower Upper
91 100
106 31.0 25.7 38.5

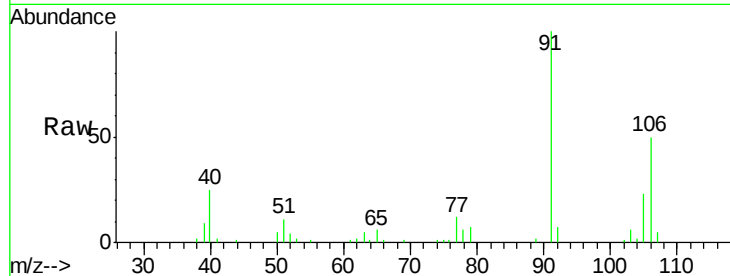




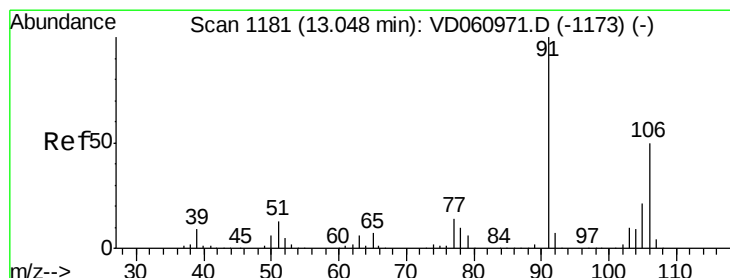
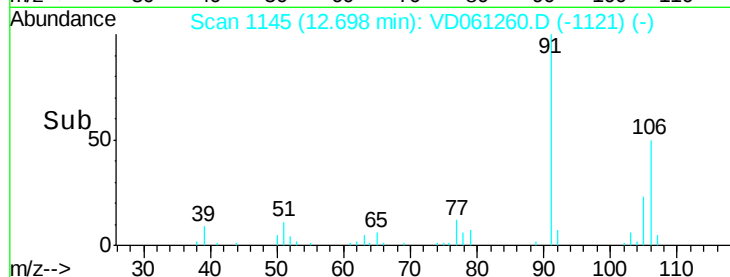
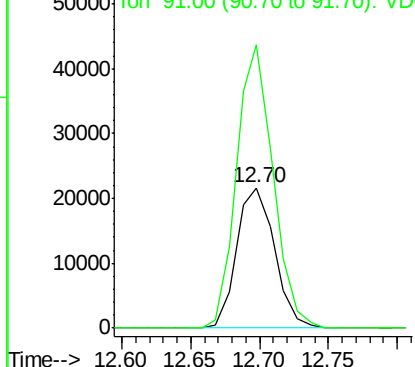
#68
m/p-Xylenes
Concen: 10.819 ug/l
RT: 12.70 min Scan# 1145
Delta R.T. 0.03 min
Lab File: VD061260.D
Acq: 22 Mar 2019 14:56

Instrument :
MSVOA_D
ClientSampled :
RCA-08

Tot Ion:106 Resp: 41589
Ion Ratio Lower Upper
106 100
91 201.3 152.0 228.0

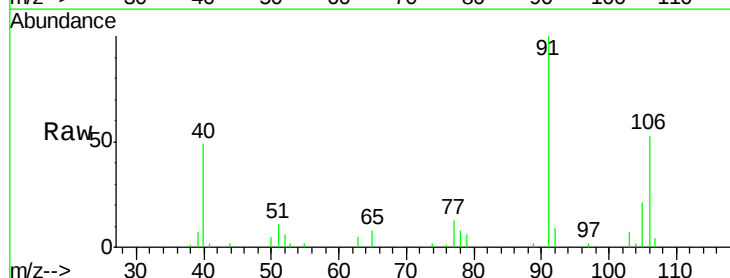


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

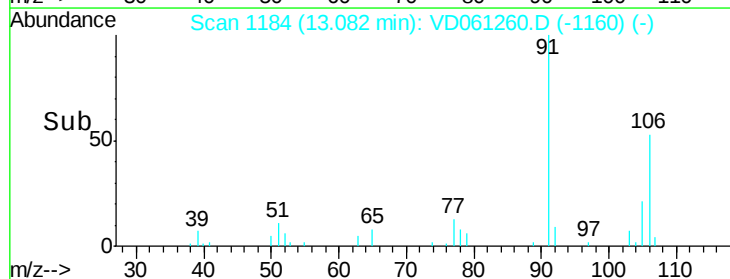
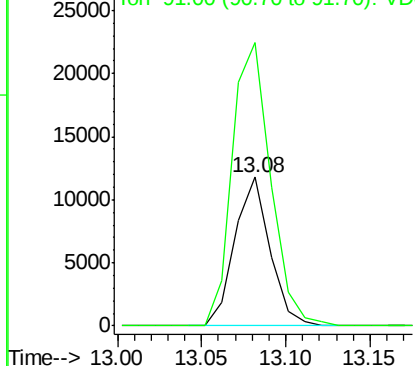


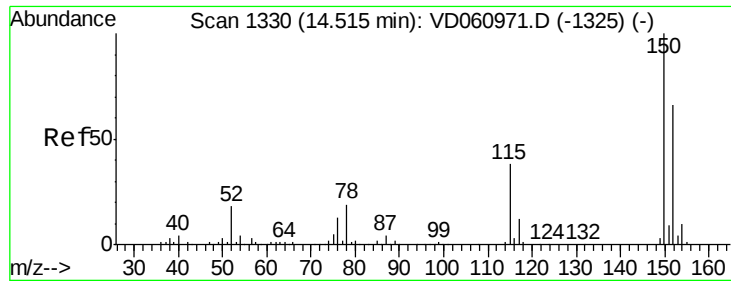
#69
o-Xylene
Concen: 4.519 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.03 min
Lab File: VD061260.D
Acq: 22 Mar 2019 14:56

Tgt Ion:106 Resp: 17076
Ion Ratio Lower Upper
106 100
91 190.4 99.8 299.3



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.55 min Scan# 1333

Delta R.T. 0.03 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

MSVOA_D

ClientSampled :

RCA-08

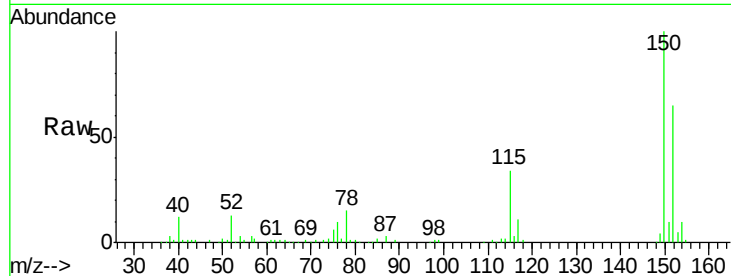
Tot Ion:152 Resp: 113680

Ion Ratio Lower Upper

152 100

115 52.0 28.6 85.9

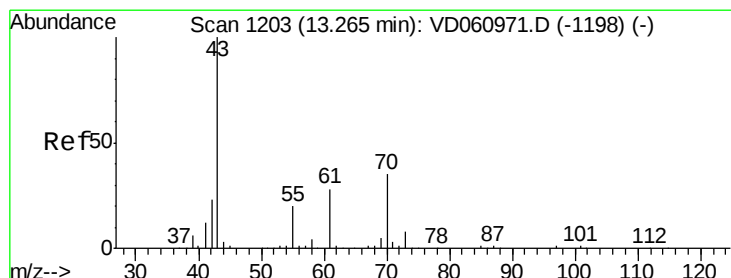
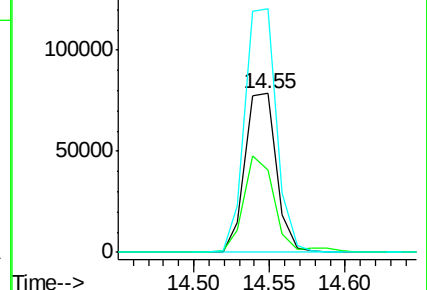
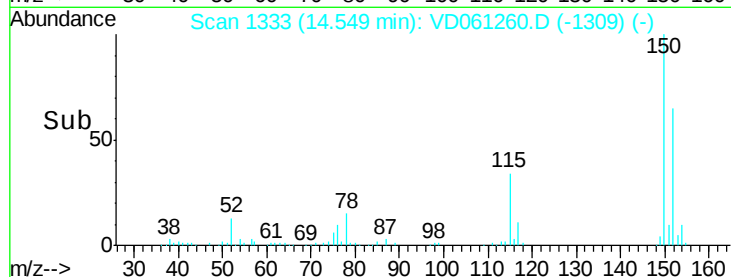
150 153.3 0.0 310.6



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



#74

N-aryl acetate

Concen: 2.346 ug/l

RT: 13.25 min Scan# 1201

Delta R.T. -0.02 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Tgt Ion: 43 Resp: 5411

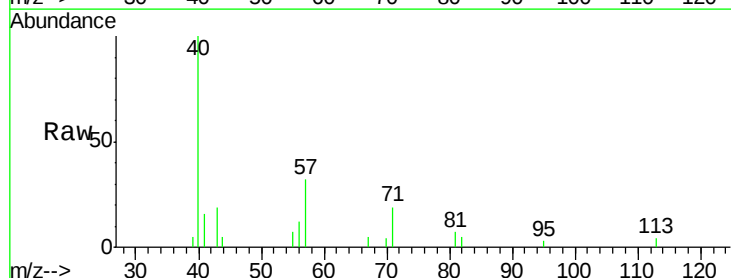
Ion Ratio Lower Upper

43 100

70 19.3 27.7 41.5#

55 35.4 16.2 24.2#

61 0.0 22.3 33.5#

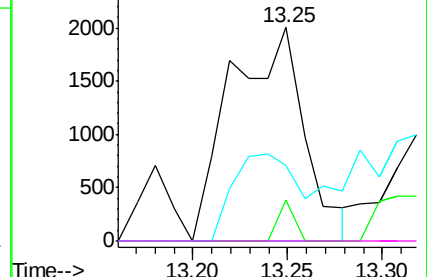
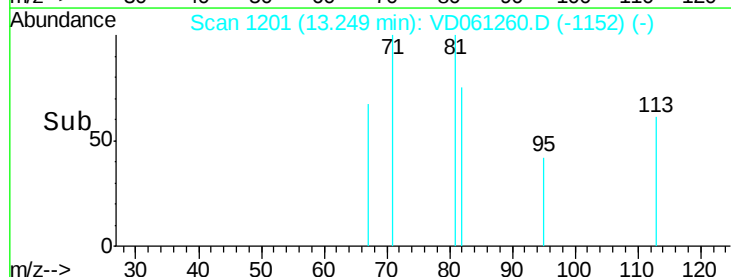


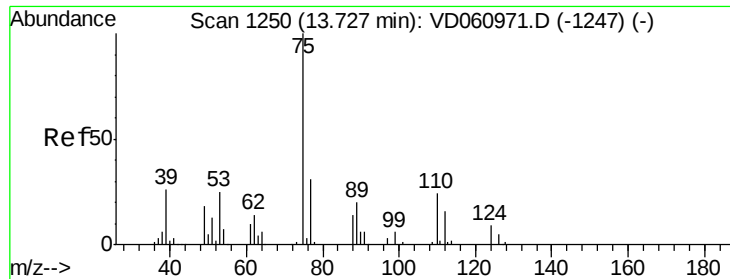
Abundance Ion 42.95 (42.65 to 43.65): VDC

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

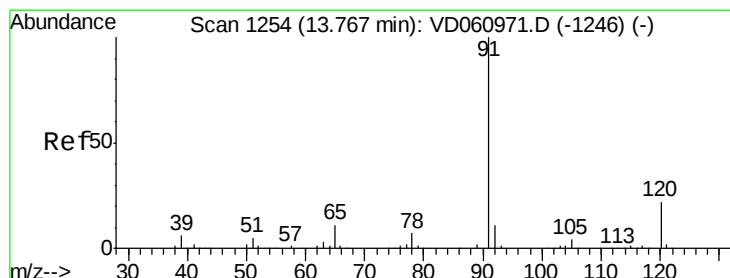
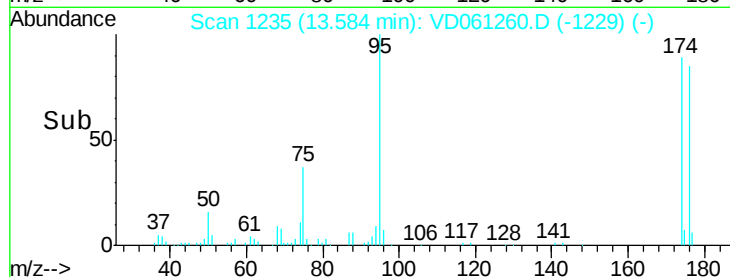
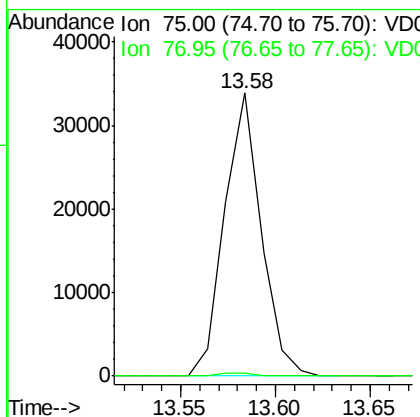
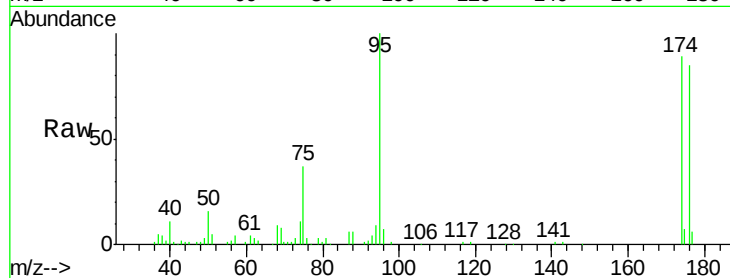




#76
 1,2,3-Trichloropropane
 Concen: 27.696 ug/l
 RT: 13.58 min Scan# 1235
 Delta R.T. -0.14 min
 Lab File: VD061260.D
 Acq: 22 Mar 2019 14:56

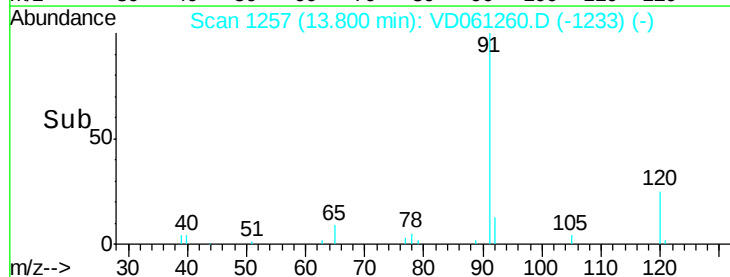
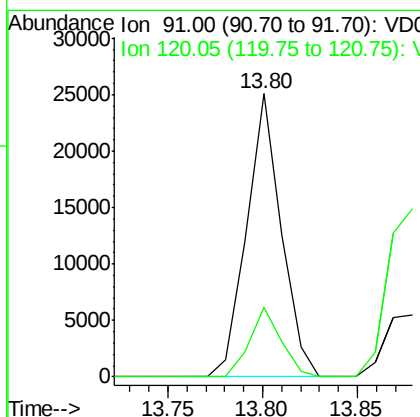
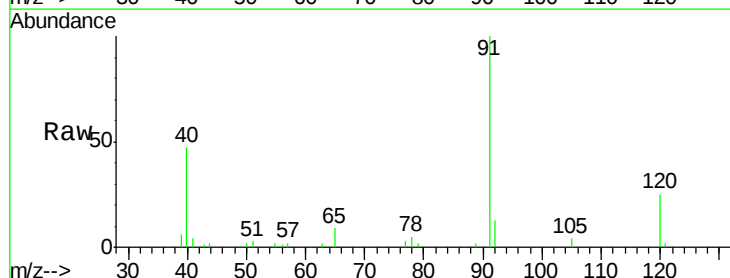
Instrument :
 MSVOA_D
 ClientSampleId :
 RCA-08

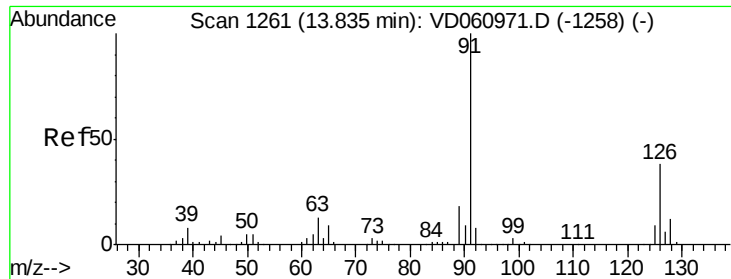
Tot Ion: 75 Resp: 45297
 Ion Ratio Lower Upper
 75 100
 77 1.2 16.6 49.7#



#78
 n-propylbenzene
 Concen: 3.309 ug/l
 RT: 13.80 min Scan# 1257
 Delta R.T. 0.03 min
 Lab File: VD061260.D
 Acq: 22 Mar 2019 14:56

Tgt Ion: 91 Resp: 31741
 Ion Ratio Lower Upper
 91 100
 120 24.7 10.8 32.3





#79

2-Chlorotoluene

Concen: 6.011 ug/l

RT: 13.80 min Scan# 1257

Delta R.T. -0.04 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

MSVOA_D

ClientSampleId :

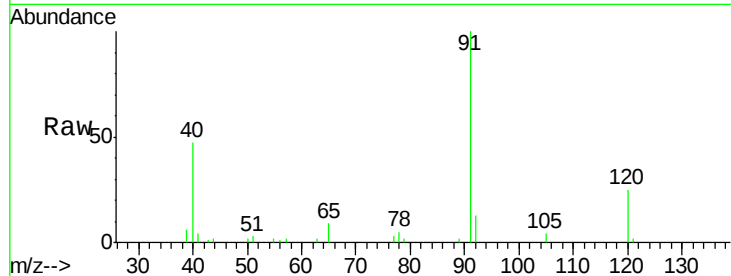
RCA-08

Tot Ion: 91 Resp: 31741

Ion Ratio Lower Upper

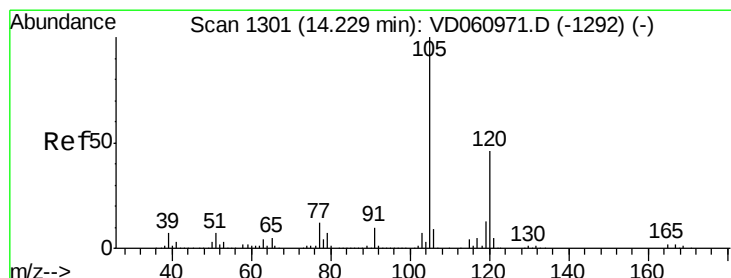
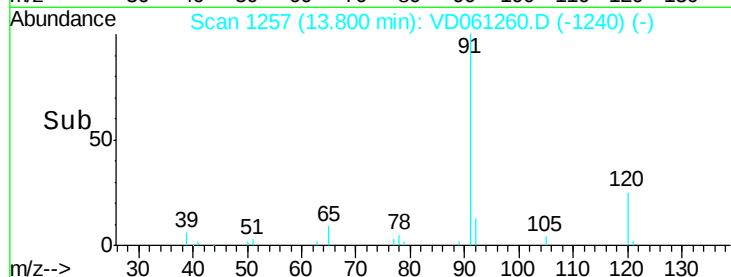
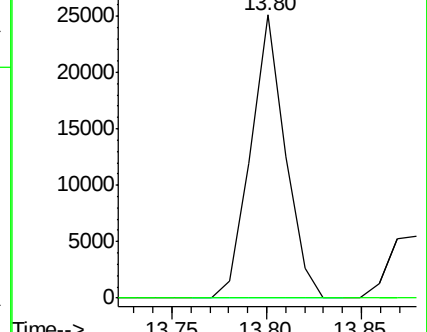
91 100

126 0.0 18.6 55.6#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 25.308 ug/l

RT: 14.26 min Scan# 1304

Delta R.T. 0.03 min

Lab File: VD061260.D

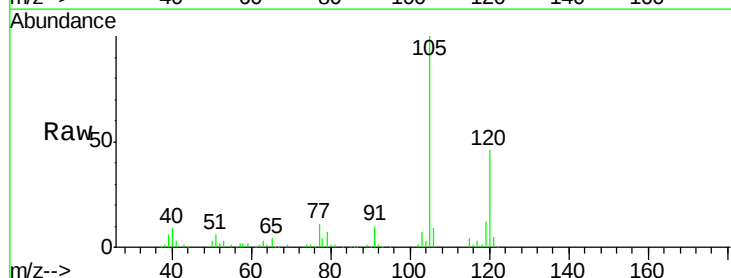
Acq: 22 Mar 2019 14:56

Tgt Ion:105 Resp: 157408

Ion Ratio Lower Upper

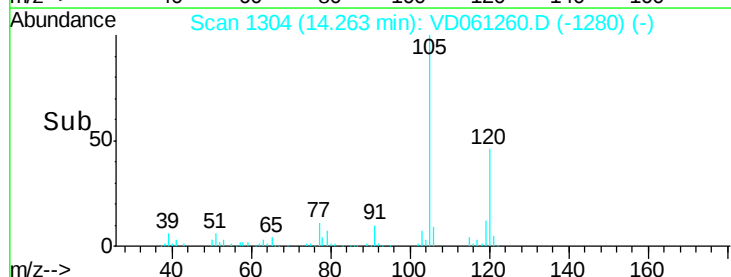
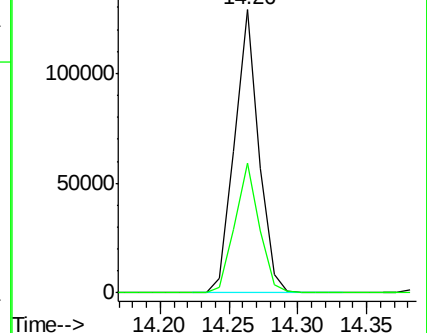
105 100

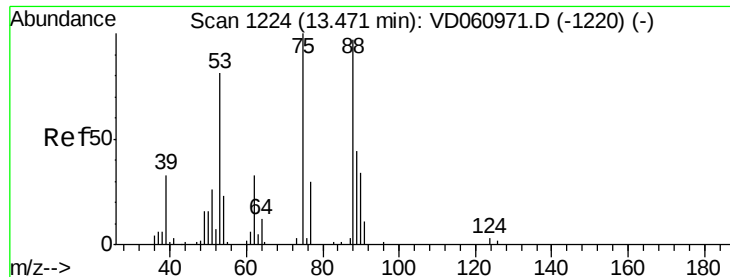
120 45.8 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#81

trans-1,4-Dichloro-2-butene

Concen: 93.943 ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.11 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

MSVOA_D

ClientSampleId :

RCA-08

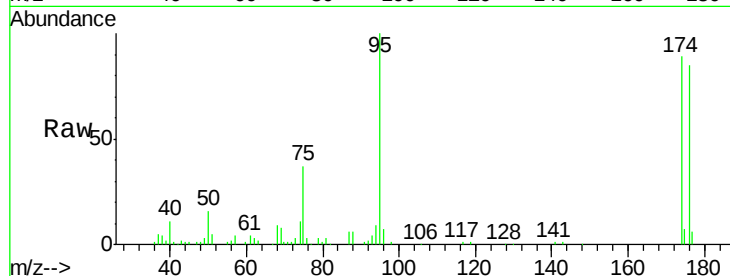
Tot Ion: 75 Resp: 45297

Ion Ratio Lower Upper

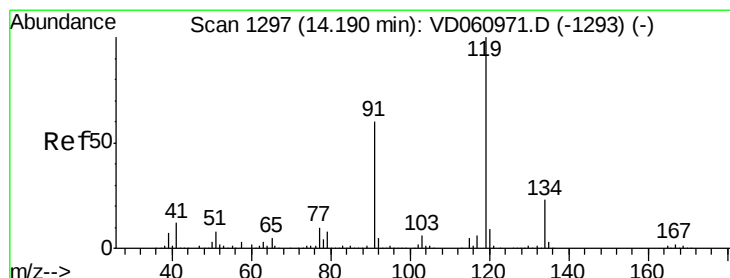
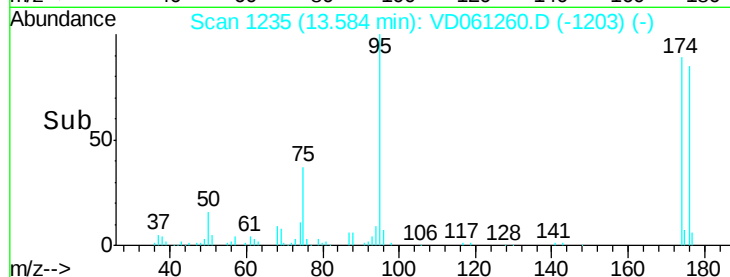
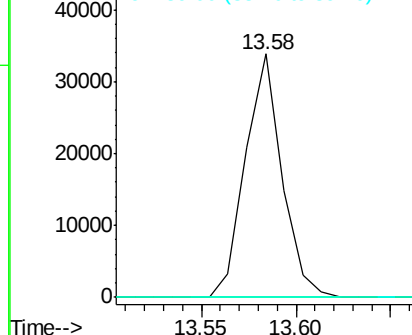
75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



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



#83

tert-Butylbenzene

Concen: 2.775 ug/l

RT: 14.26 min Scan# 1304

Delta R.T. 0.07 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

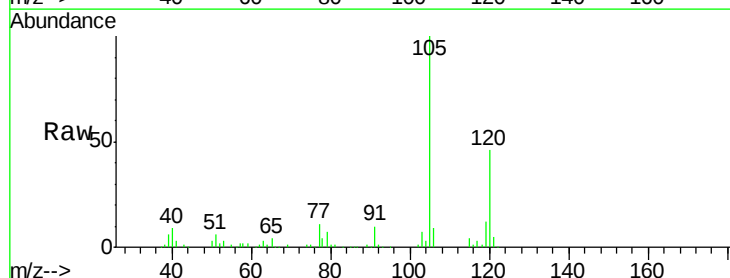
Tgt Ion: 119 Resp: 18886

Ion Ratio Lower Upper

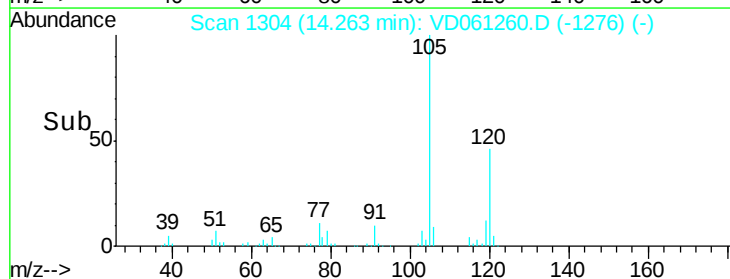
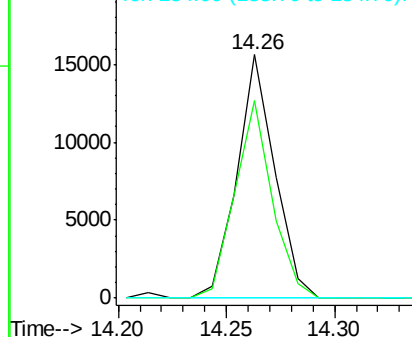
119 100

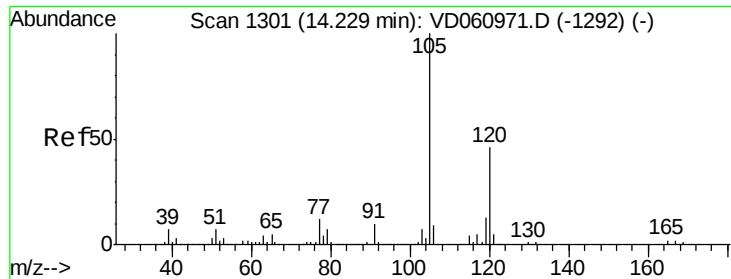
91 80.9 30.1 90.3

134 0.0 11.6 34.7#



Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): VDC
Ion 134.00 (133.70 to 134.70): V

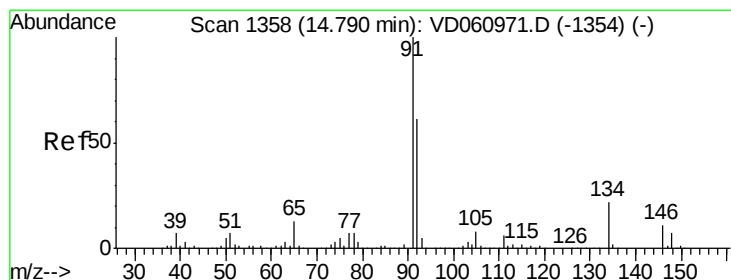
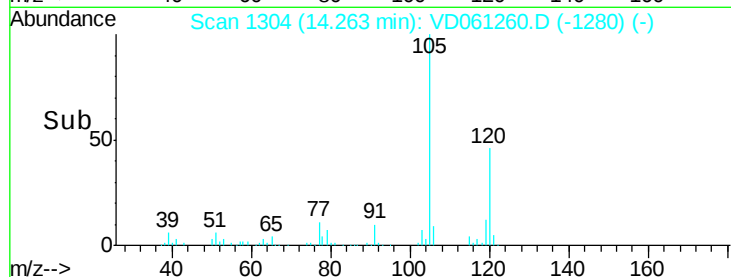
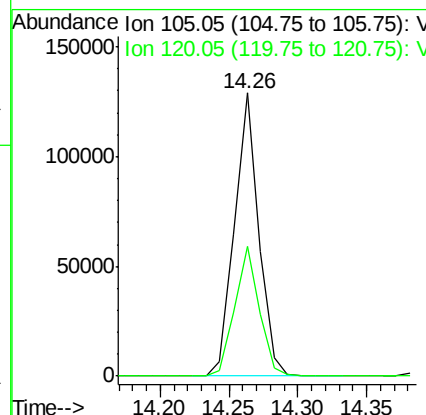
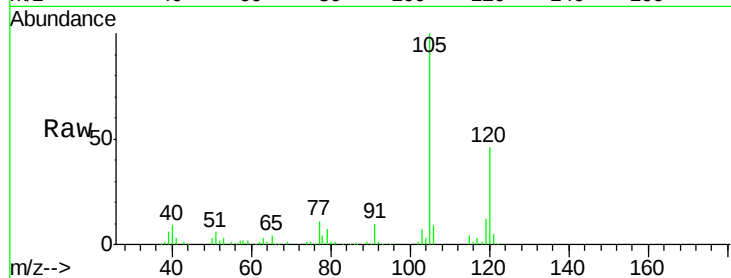




#84
 1,2,4-Trimethylbenzene
 Concen: 25.308 ug/l
 RT: 14.26 min Scan# 1304
 Delta R.T. 0.03 min
 Lab File: VD061260.D
 Acq: 22 Mar 2019 14:56

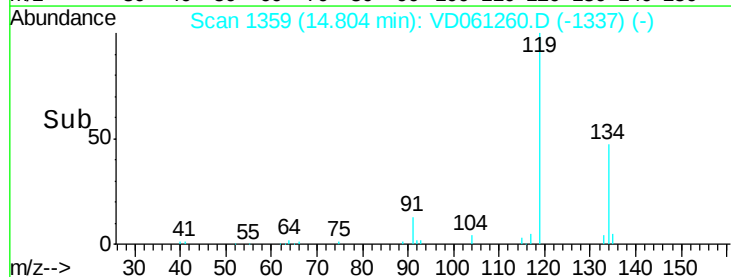
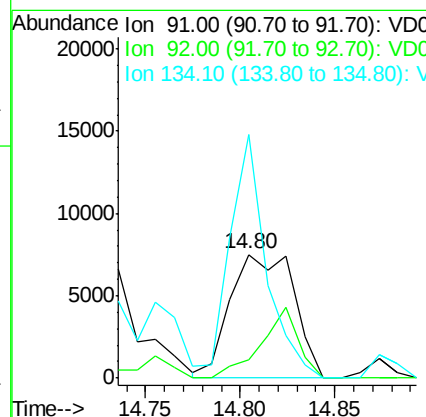
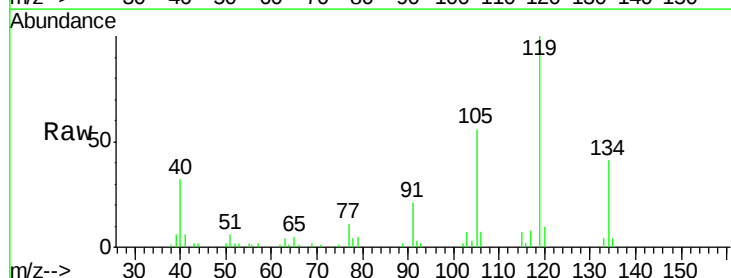
Instrument :
 MSVOA_D
 ClientSampleID :
 RCA-08

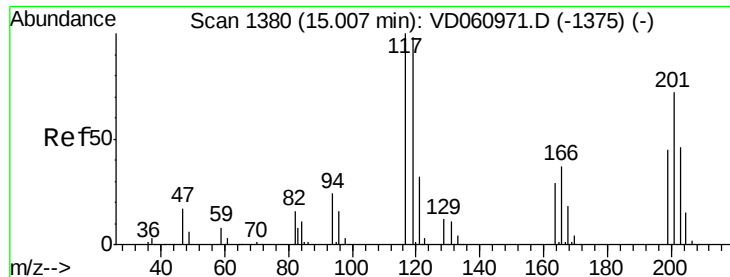
Tot Ion:105 Resp: 157408
 Ion Ratio Lower Upper
 105 100
 120 45.8 22.9 68.5



#89
 n-Butylbenzene
 Concen: 2.687 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD061260.D
 Acq: 22 Mar 2019 14:56

Tgt Ion: 91 Resp: 17524
 Ion Ratio Lower Upper
 91 100
 92 14.7 30.6 91.8#
 134 197.0 11.0 33.0#





#90

Hexachloroethane

Concen: 2.101 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

Instrument :

MSVOA_D

ClientSampleId :

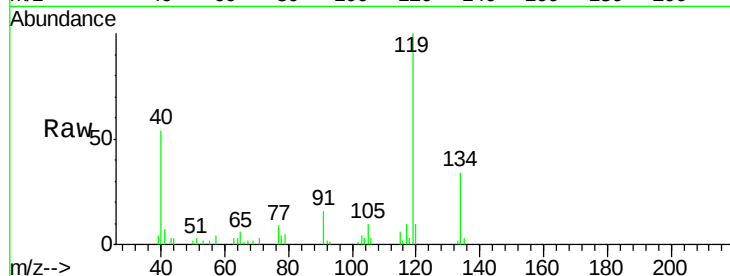
RCA-08

Tot Ion:117 Resp: 4030

Ion Ratio Lower Upper

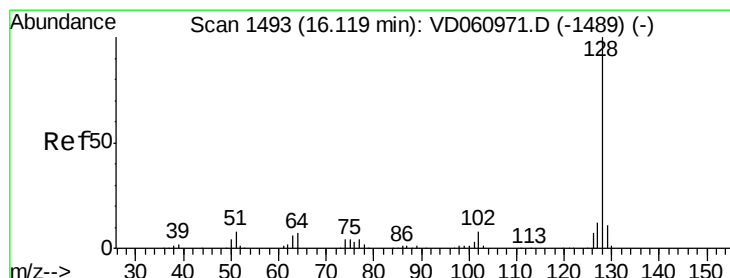
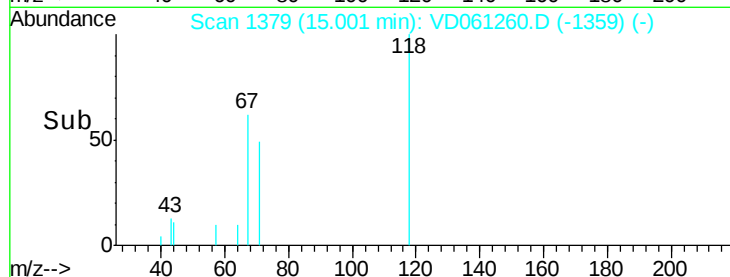
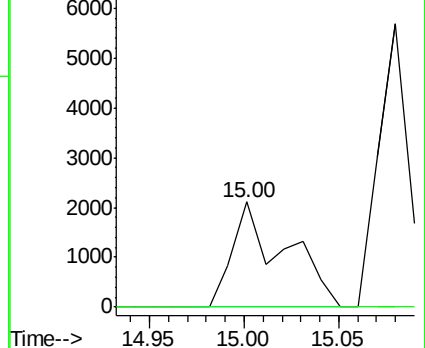
117 100

201 0.0 36.2 108.6#



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V



#95

Naphthalene

Concen: 184.091 ug/l

RT: 16.14 min Scan# 1495

Delta R.T. 0.02 min

Lab File: VD061260.D

Acq: 22 Mar 2019 14:56

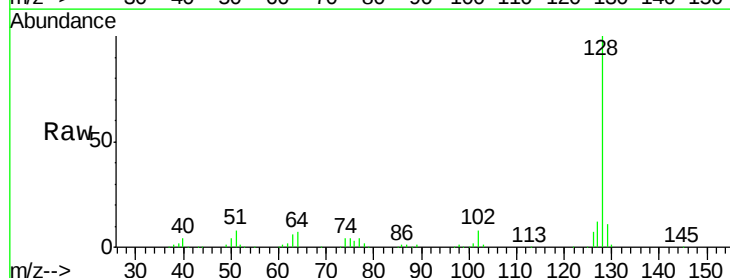
Tgt Ion:128 Resp: 404020

Ion Ratio Lower Upper

128 100

127 11.8 9.8 14.8

129 11.2 8.5 12.7



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

