

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD041019\
 Data File : VD061718.D
 Acq On : 10 Apr 2019 17:38
 Operator : VA/AP
 Sample : K2316-06RE
 Misc : 5.00g/5ml/MSVOA_D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190174-AMND-COMP-CS-1RE

Quant Time: Apr 11 02:35:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D040619S.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 08 10:04:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	162256	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.23	114	271704	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.38	117	235111	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	82689	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	113357	92.17	ug/l	0.01
Spiked Amount			Recovery	=	184.34%	
35) Dibromofluoromethane	6.94	113	9833	5.22	ug/l	0.02
Spiked Amount			Recovery	=	10.44%	
50) Toluene-d8	10.42	98	283399	59.93	ug/l	0.01
Spiked Amount			Recovery	=	119.86%	
62) 4-Bromofluorobenzene	13.56	95	104597	67.86	ug/l	0.00
Spiked Amount			Recovery	=	135.72%	

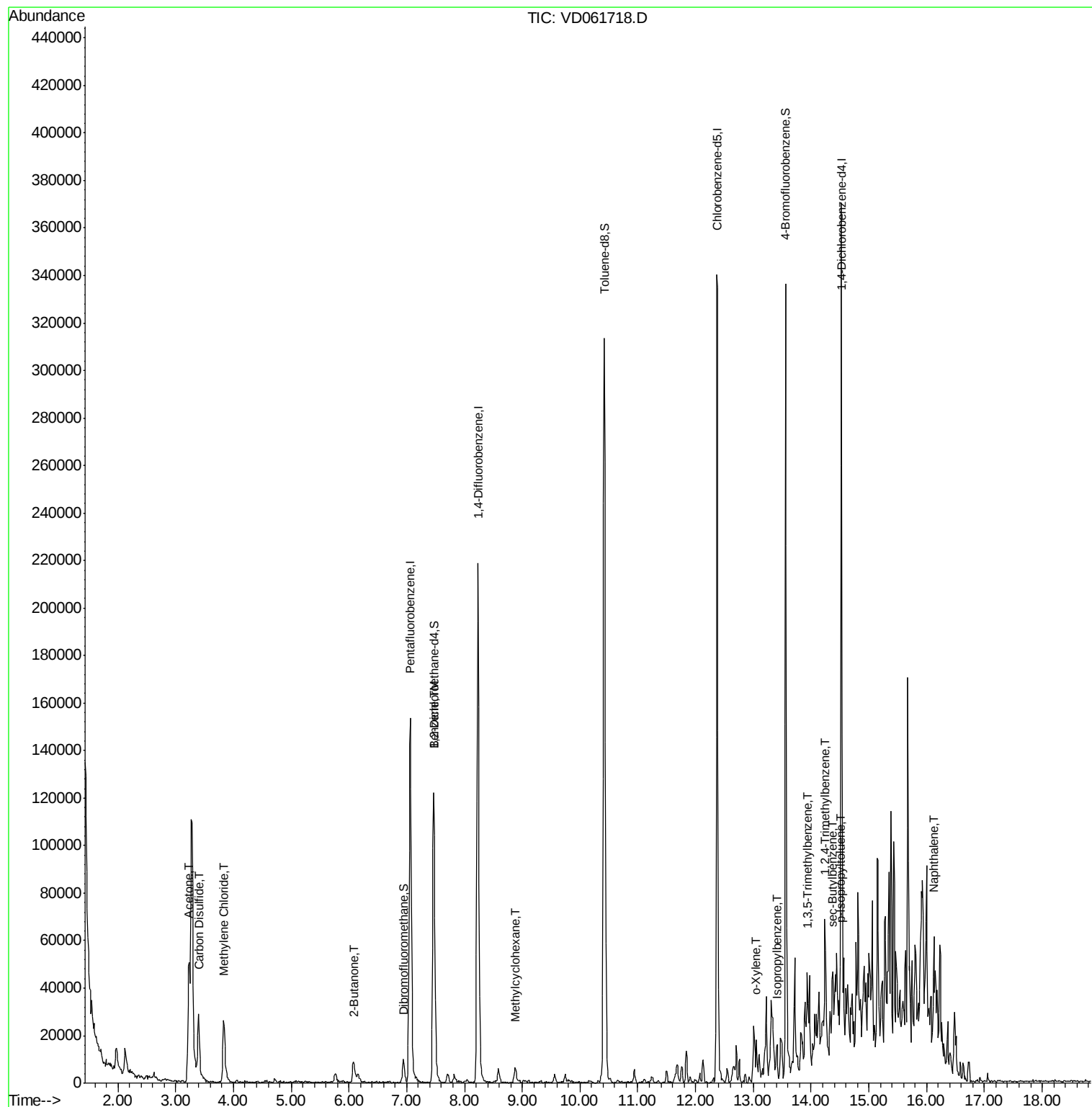
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.22	43	99103	269.554	ug/l	98
17) Carbon Disulfide	3.40	76	53563	9.745	ug/l #	94
20) Methylene Chloride	3.83	84	21334	10.226	ug/l	98
25) 2-Butanone	6.08	43	21544	50.830	ug/l	92
39) Methylcyclohexane	8.87	83	3265	1.337	ug/l #	73
40) Benzene	7.48	78	8257	1.439	ug/l #	81
69) o-Xylene	13.06	106	4094	1.549	ug/l	88
73) Isopropylbenzene	13.40	105	6367	1.156	ug/l	78
80) 1,3,5-Trimethylbenzene	13.93	105	11675	2.670	ug/l	88
84) 1,2,4-Trimethylbenzene	14.24	105	21631	4.901	ug/l	97
85) sec-Butylbenzene	14.38	105	9713	1.705	ug/l	91
86) p-Isopropyltoluene	14.49	119	6432	1.302	ug/l	90
95) Naphthalene	16.13	128	26599	14.546	ug/l	98

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.02 min

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Instrument :

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ClientSampleId :

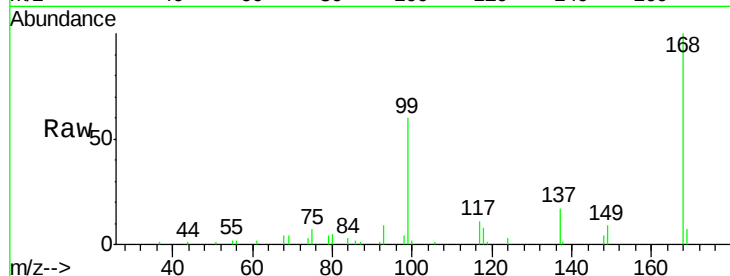
20190174-AMND-COMP-CS-1RE

Tgt Ion:168 Resp: 162256

Ion Ratio Lower Upper

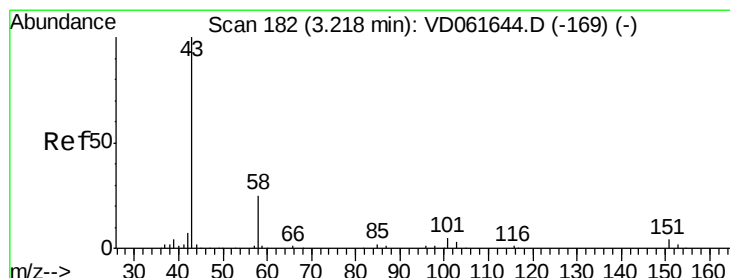
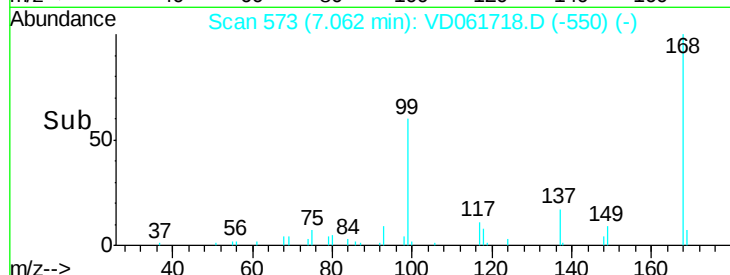
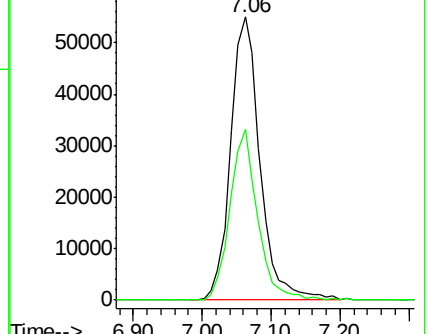
168 100

99 60.4 46.8 70.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 269.554 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD061718.D

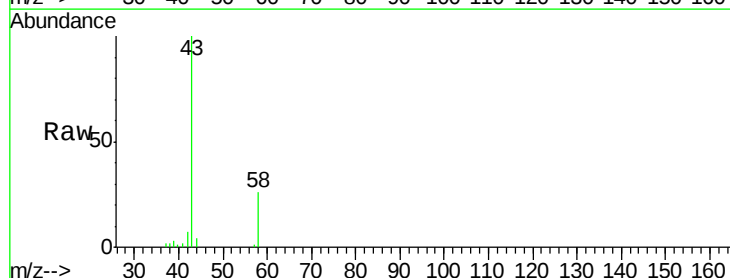
Acq: 10 Apr 2019 17:38

Tgt Ion: 43 Resp: 99103

Ion Ratio Lower Upper

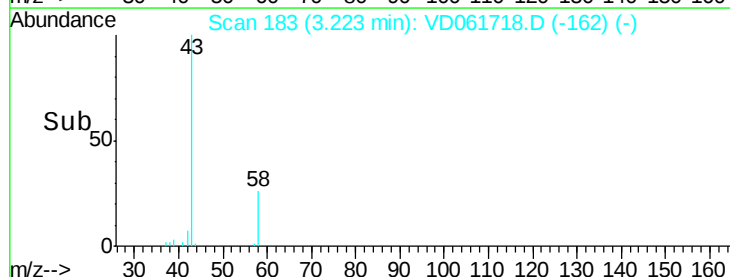
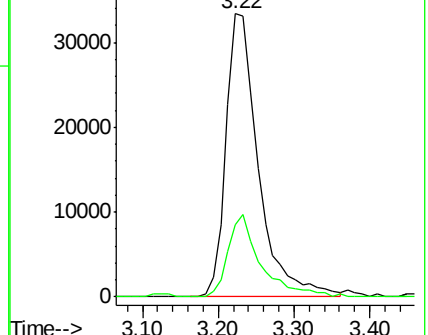
43 100

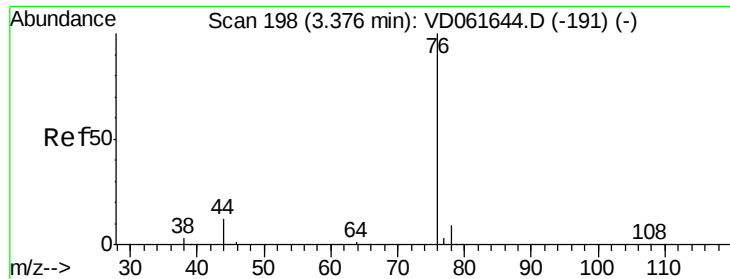
58 25.6 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 9.745 ug/l

RT: 3.40 min Scan# 201

Delta R.T. 0.02 min

Lab File: VD061718.D

Acq: 10 Apr 2019 17:38

Instrument :

MSVOA_D

ClientSampleId :

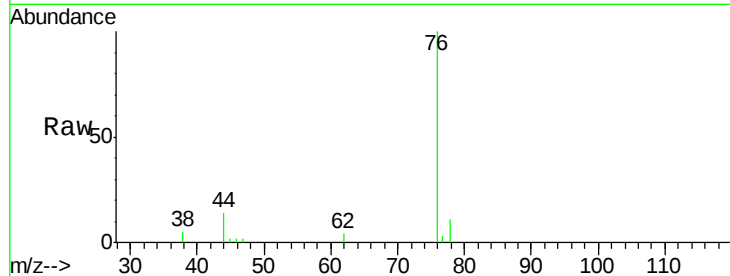
20190174-AMND-COMP-CS-1RE

Tgt Ion: 76 Resp: 53563

Ion Ratio Lower Upper

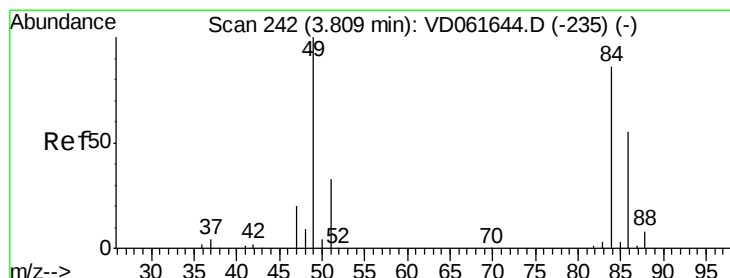
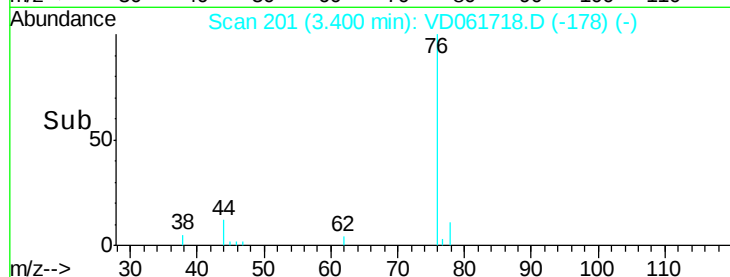
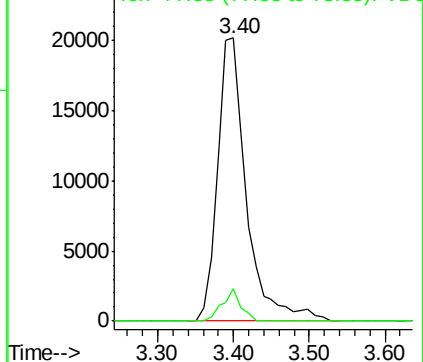
76 100

78 11.5 7.4 11.2#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#20

Methylene Chloride

Concen: 10.226 ug/l

RT: 3.83 min Scan# 245

Delta R.T. 0.03 min

Lab File: VD061718.D

Acq: 10 Apr 2019 17:38

Tgt Ion: 84 Resp: 21334

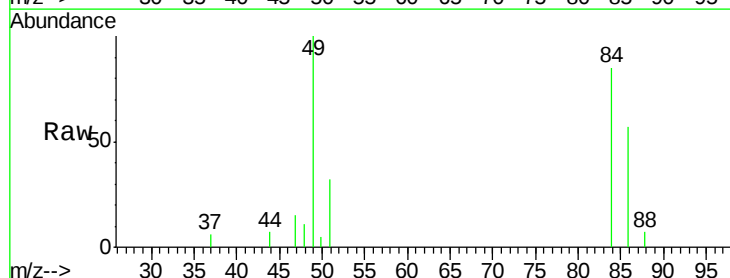
Ion Ratio Lower Upper

84 100

49 118.0 93.0 139.4

51 37.4 30.4 45.6

86 66.8 51.0 76.4

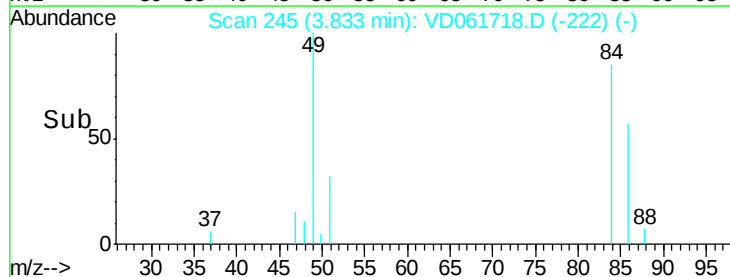
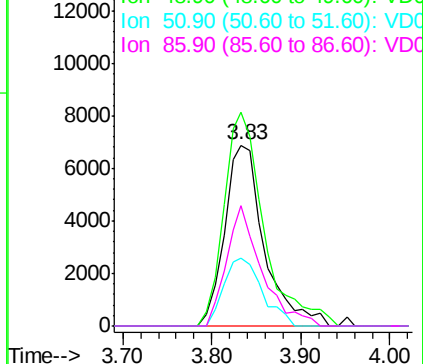


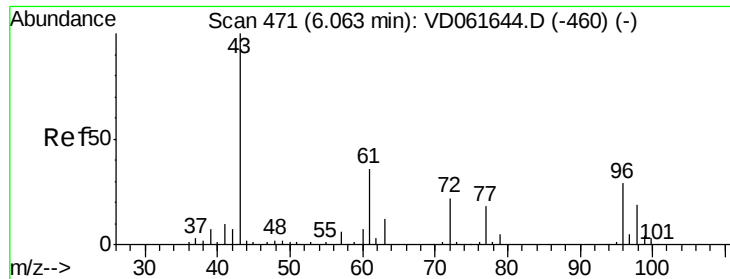
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 50.830 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD061718.D

Acq: 10 Apr 2019 17:38

Instrument :

MSVOA_D

ClientSampleId :

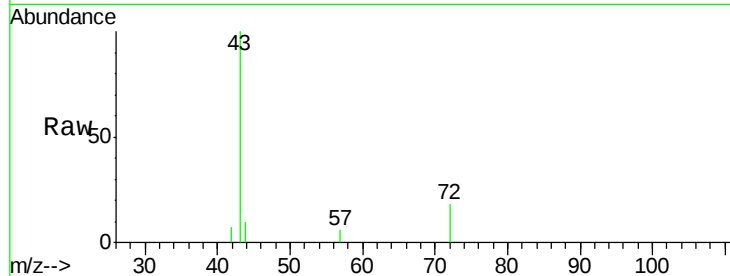
20190174-AMND-COMP-CS-1RE

Tgt Ion: 43 Resp: 21544

Ion Ratio Lower Upper

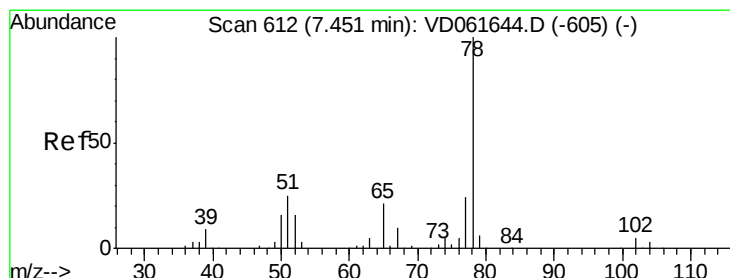
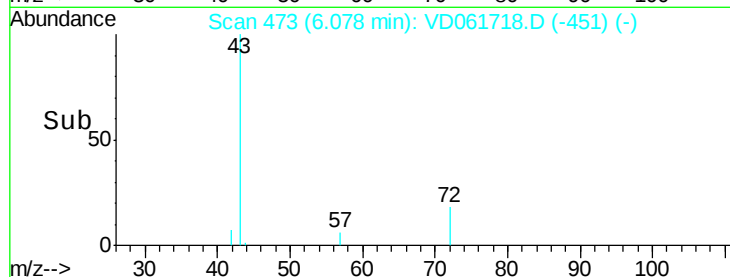
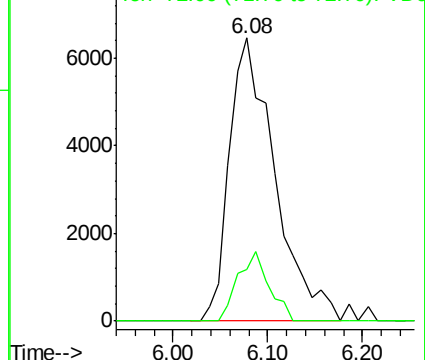
43 100

72 18.1 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 92.168 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.01 min

Lab File: VD061718.D

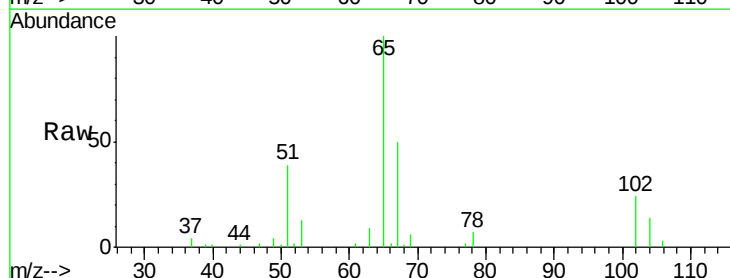
Acq: 10 Apr 2019 17:38

Tgt Ion: 65 Resp: 113357

Ion Ratio Lower Upper

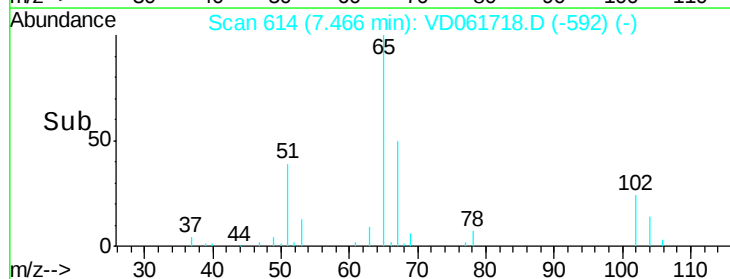
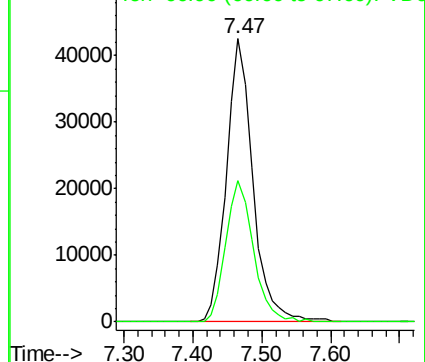
65 100

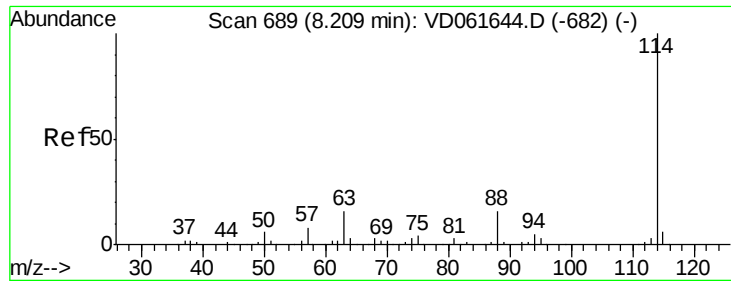
67 50.1 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

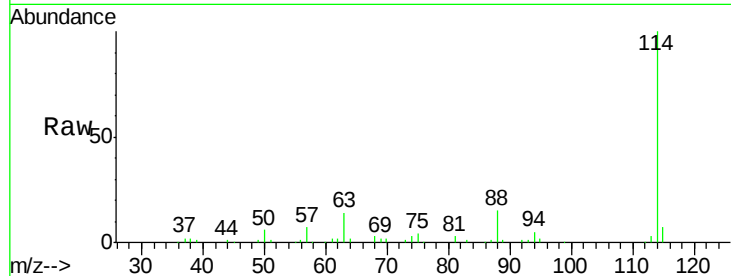




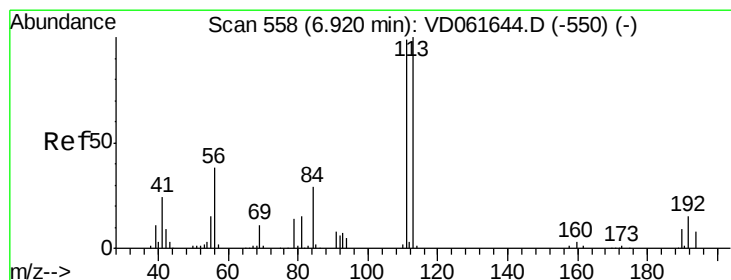
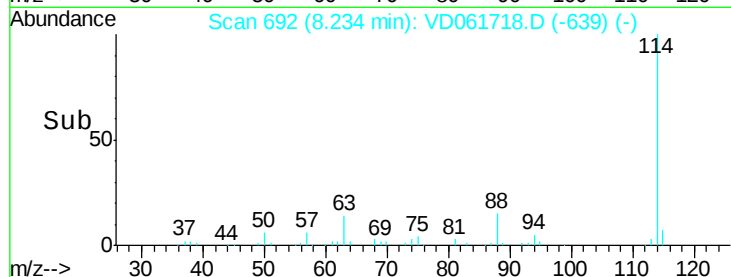
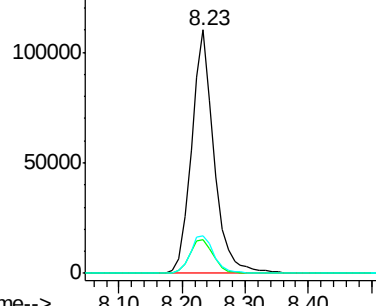
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.23 min Scan# 692
 Delta R.T. 0.02 min
 Lab File: VD061718.D
 Acq: 10 Apr 2019 17:38

Instrument :
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Tgt Ion:114 Resp: 271704
 Ion Ratio Lower Upper
 114 100
 63 13.9 0.0 31.2
 88 15.5 0.0 31.8

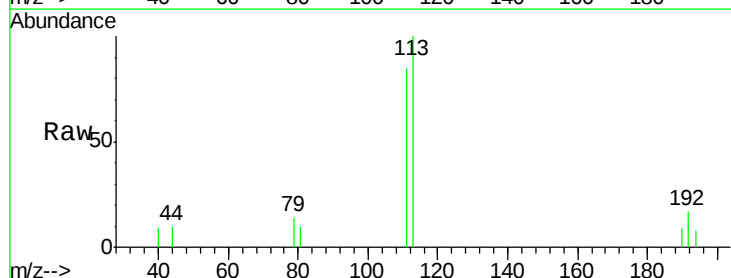


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

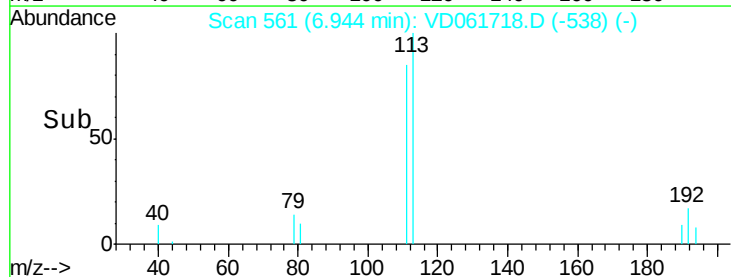
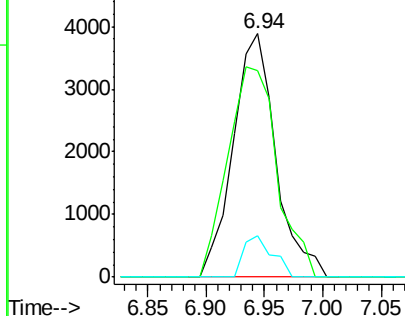


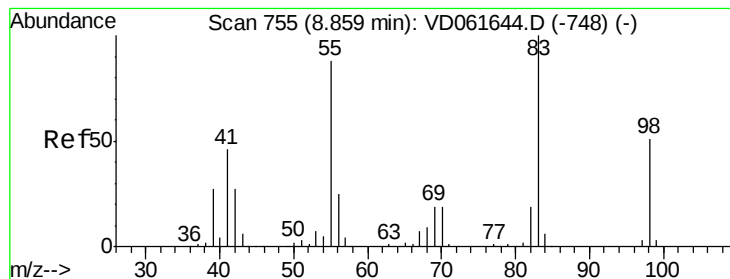
#35
 Dibromofluoromethane
 Concen: 5.224 ug/l
 RT: 6.94 min Scan# 561
 Delta R.T. 0.02 min
 Lab File: VD061718.D
 Acq: 10 Apr 2019 17:38

Tgt Ion:113 Resp: 9833
 Ion Ratio Lower Upper
 113 100
 111 84.7 79.3 118.9
 192 17.1 12.3 18.5



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





#39

Methylcyclohexane

Concen: 1.337 ug/l

RT: 8.87 min Scan# 757

Delta R.T. 0.01 min

Lab File: VD061718.D

Acq: 10 Apr 2019 17:38

Instrument :

MSVOA_D

ClientSampleId :

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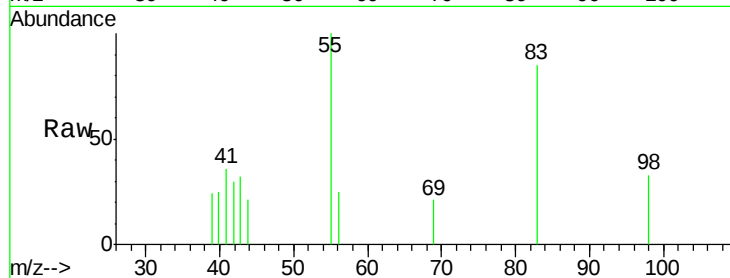
Tgt Ion: 83 Resp: 3265

Ion Ratio Lower Upper

83 100

55 117.8 70.3 105.5#

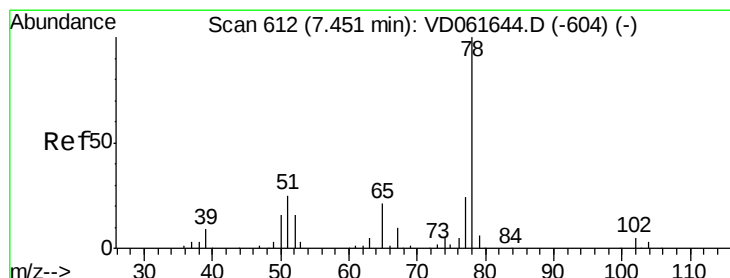
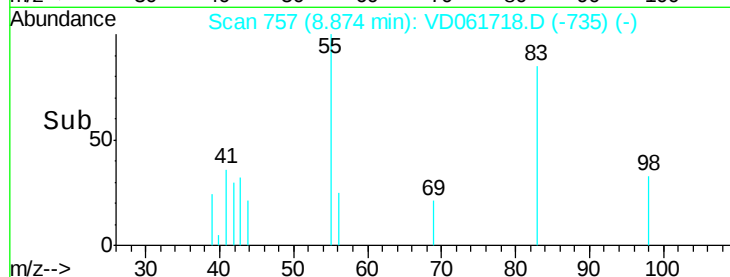
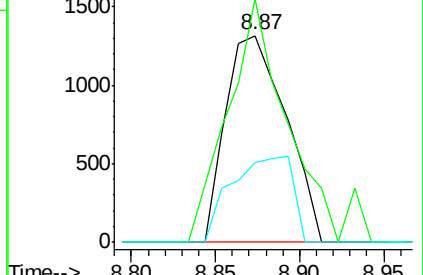
98 38.8 41.0 61.6#



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 1.439 ug/l

RT: 7.48 min Scan# 615

Delta R.T. 0.02 min

Lab File: VD061718.D

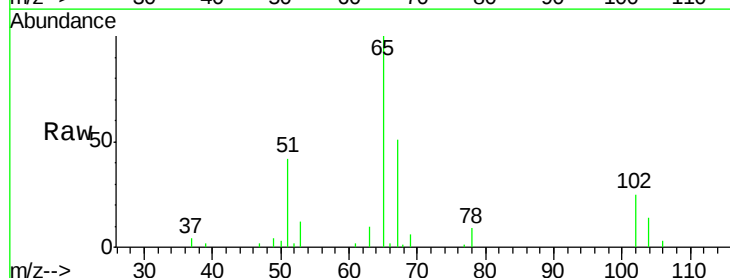
Acq: 10 Apr 2019 17:38

Tgt Ion: 78 Resp: 8257

Ion Ratio Lower Upper

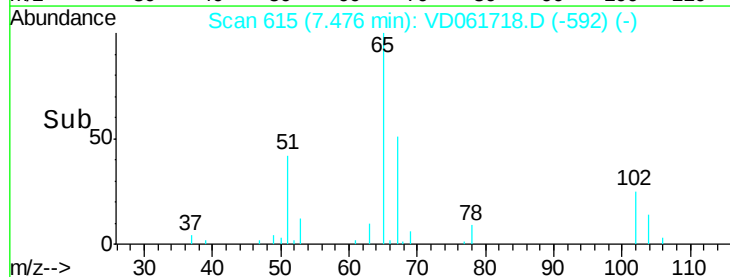
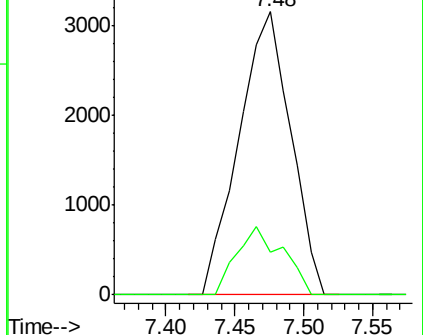
78 100

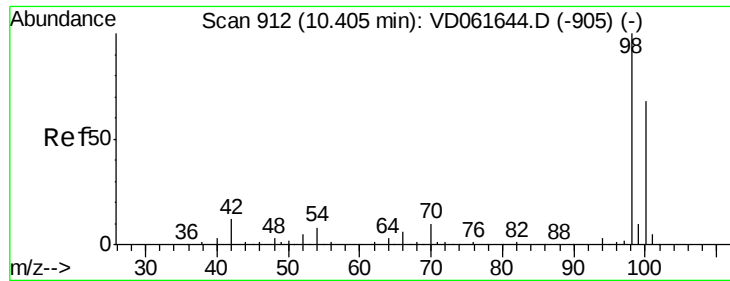
77 15.2 19.5 29.3#



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC





#50

Toluene-d8

Concen: 59.927 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.01 min

Lab File: VD061718.D

Acq: 10 Apr 2019 17:38

Instrument :

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ClientSampleId :

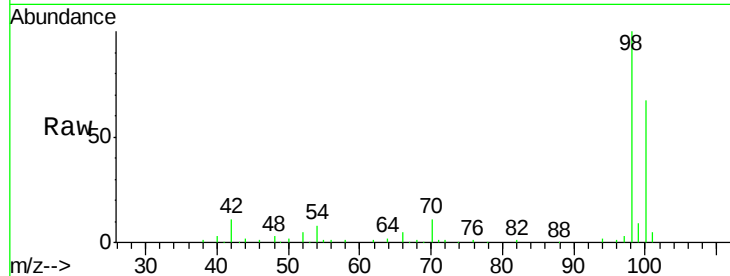
20190174-AMND-COMP-CS-1RE

Tgt Ion: 98 Resp: 283399

Ion Ratio Lower Upper

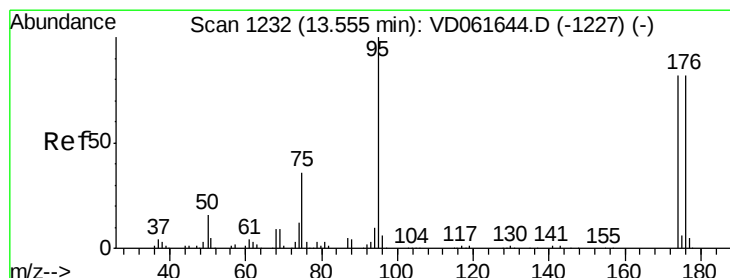
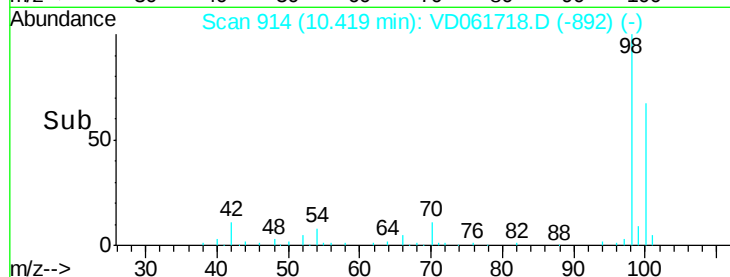
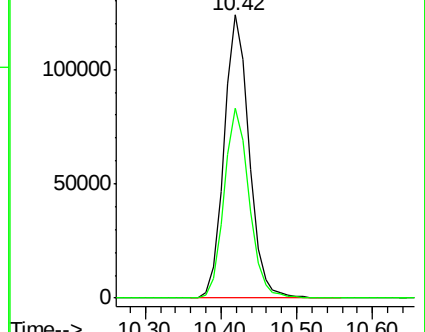
98 100

100 67.3 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VD061644.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD061644.D (-905) (-)



#62

4-Bromofluorobenzene

Concen: 67.855 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD061718.D

Acq: 10 Apr 2019 17:38

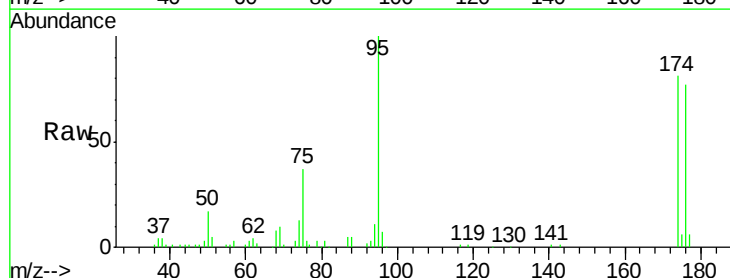
Tgt Ion: 95 Resp: 104597

Ion Ratio Lower Upper

95 100

174 81.0 0.0 164.6

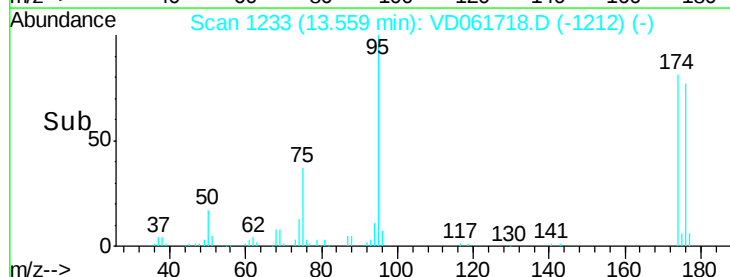
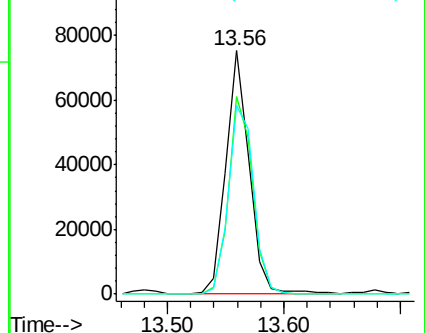
176 77.4 0.0 165.0

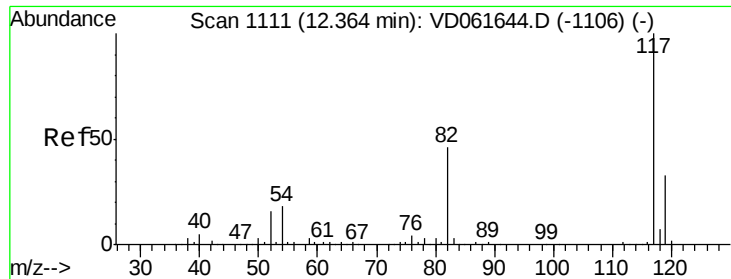


Abundance Ion 95.00 (94.70 to 95.70): VD061644.D (-1227) (-)

Ion 173.90 (173.60 to 174.60): VD061644.D (-1227) (-)

Ion 175.90 (175.60 to 176.60): VD061644.D (-1227) (-)

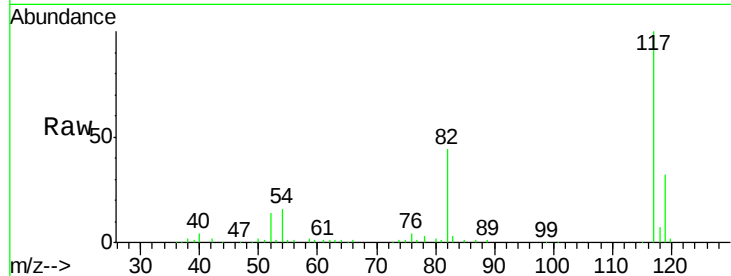




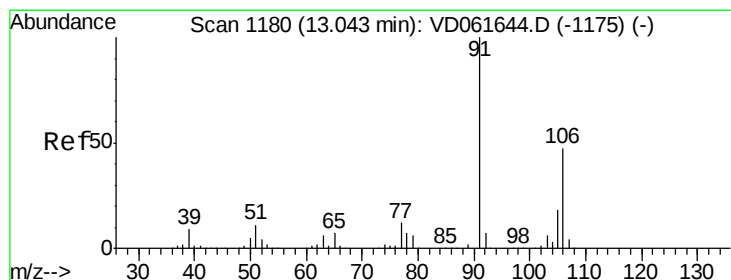
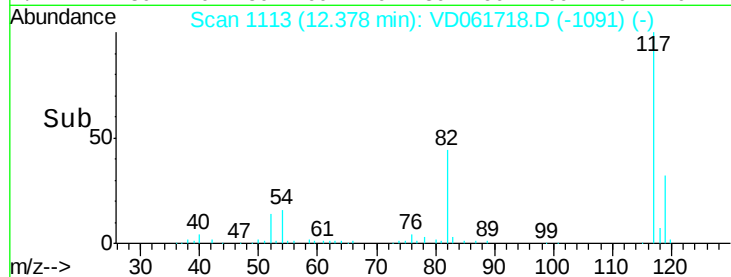
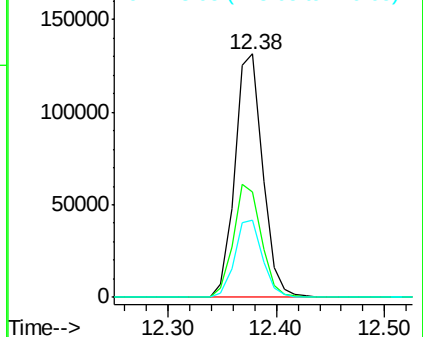
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.01 min
Lab File: VD061718.D
Acq: 10 Apr 2019 17:38

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Tgt Ion:117 Resp: 235111
Ion Ratio Lower Upper
117 100
82 43.5 36.8 55.2
119 32.0 26.1 39.1

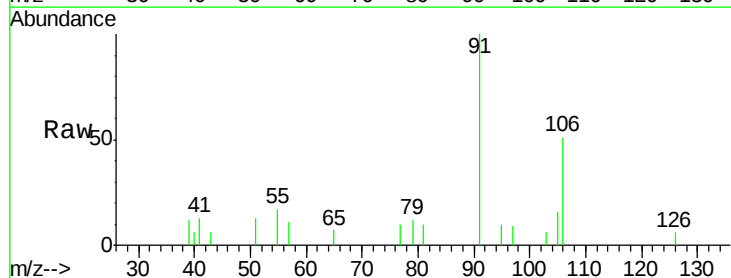


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

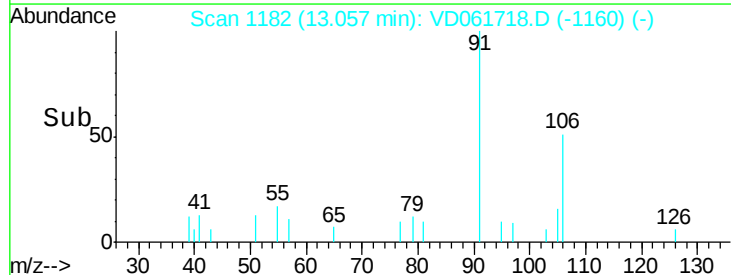
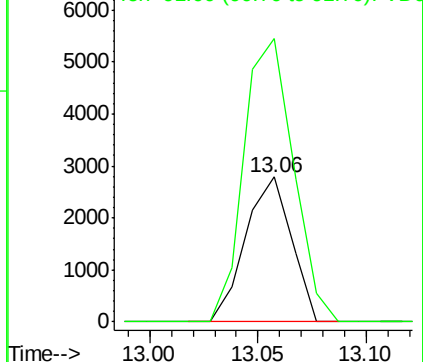


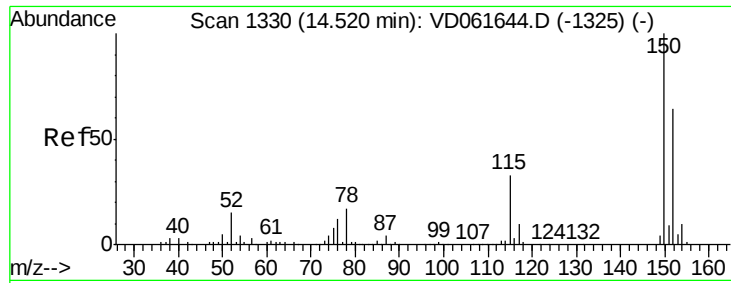
#69
o-Xylene
Concen: 1.549 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VD061718.D
Acq: 10 Apr 2019 17:38

Tgt Ion:106 Resp: 4094
Ion Ratio Lower Upper
106 100
91 195.5 107.3 321.9



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1331

Delta R.T. 0.00 min

Lab File: VD061718.D

Acq: 10 Apr 2019 17:38

Instrument :

MSVOA_D

ClientSampleId :

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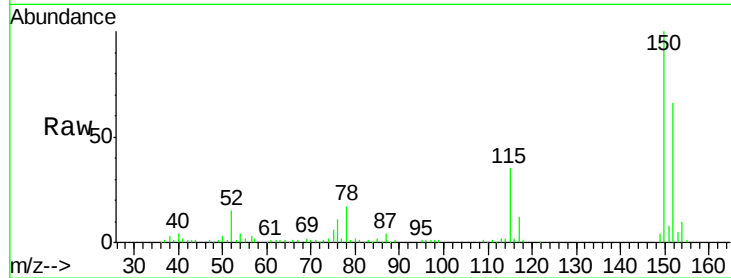
Tgt Ion:152 Resp: 82689

Ion Ratio Lower Upper

152 100

115 52.7 26.4 79.2

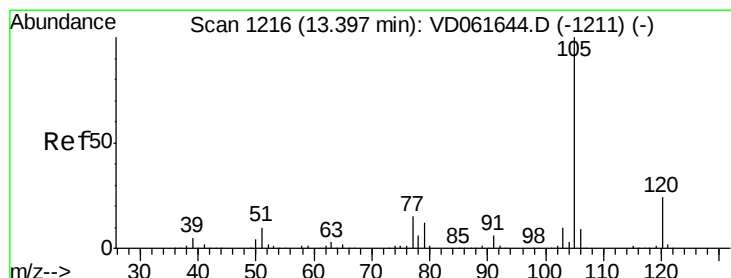
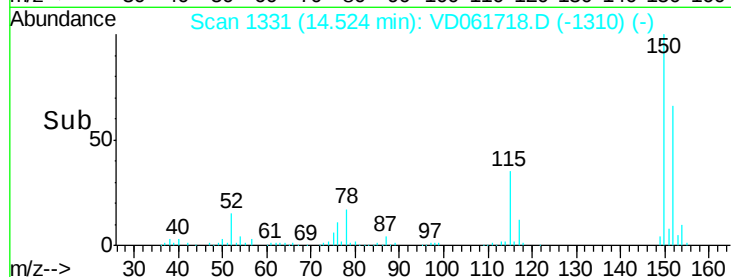
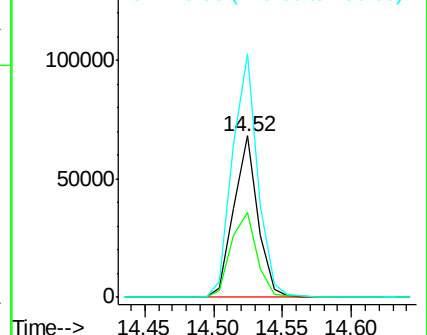
150 150.8 0.0 320.6



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



#73

Isopropylbenzene

Concen: 1.156 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD061718.D

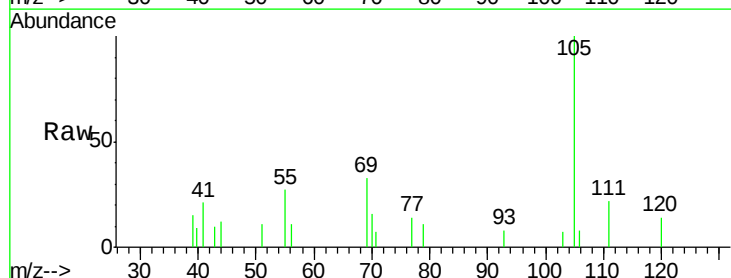
Acq: 10 Apr 2019 17:38

Tgt Ion:105 Resp: 6367

Ion Ratio Lower Upper

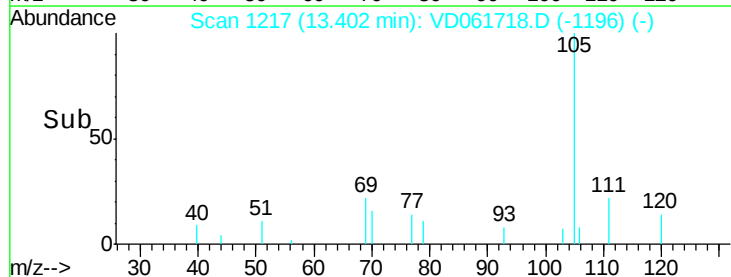
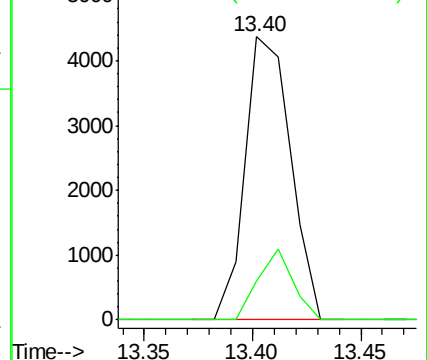
105 100

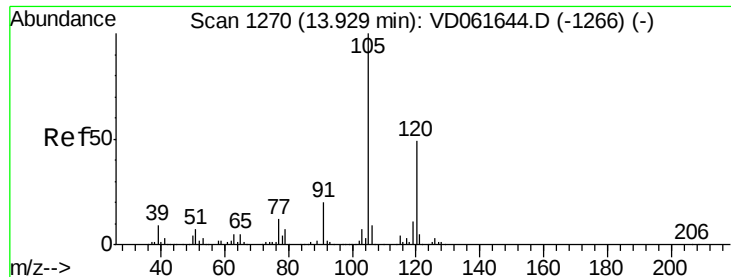
120 13.6 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

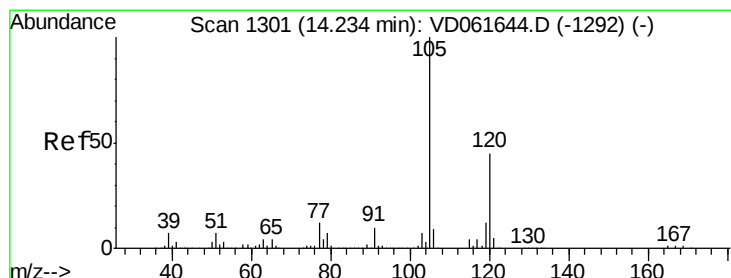
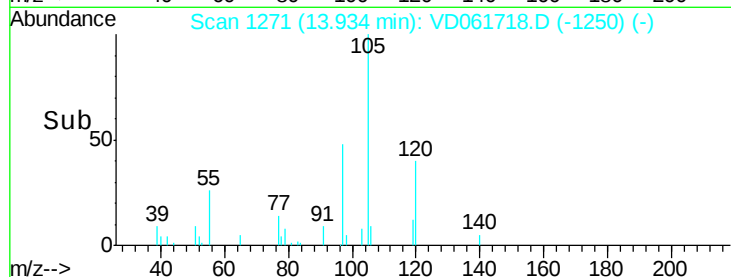
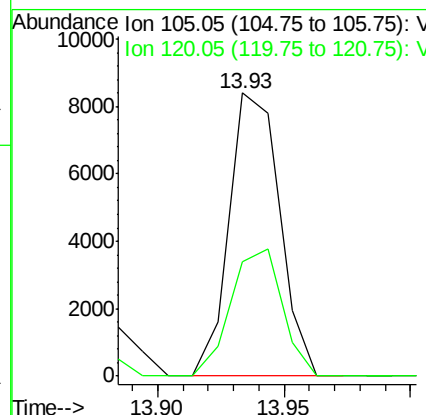
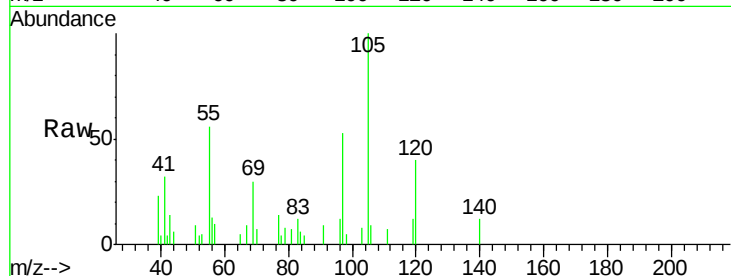




#80
 1,3,5-Trimethylbenzene
 Concen: 2.670 ug/l
 RT: 13.93 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VD061718.D
 Acq: 10 Apr 2019 17:38

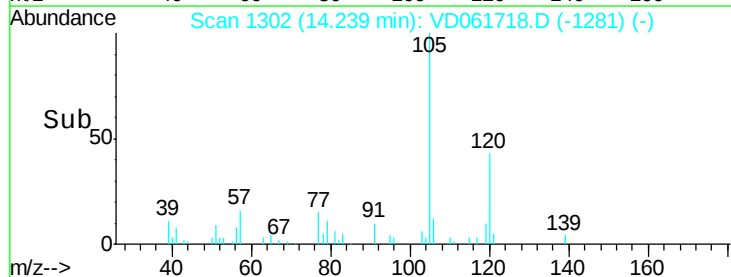
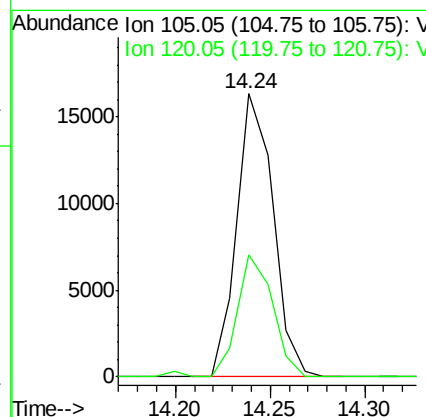
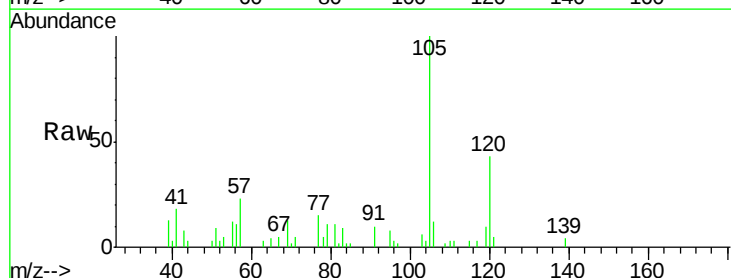
Instrument :
 MSVOA_D
 ClientSampleId :
 20190174-AMND-COMP-CS-1RE

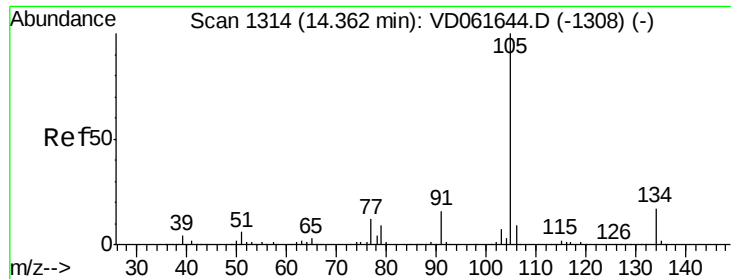
Tgt Ion:105 Resp: 11675
 Ion Ratio Lower Upper
 105 100
 120 40.4 24.4 73.2



#84
 1,2,4-Trimethylbenzene
 Concen: 4.901 ug/l
 RT: 14.24 min Scan# 1302
 Delta R.T. 0.00 min
 Lab File: VD061718.D
 Acq: 10 Apr 2019 17:38

Tgt Ion:105 Resp: 21631
 Ion Ratio Lower Upper
 105 100
 120 43.2 22.6 67.8

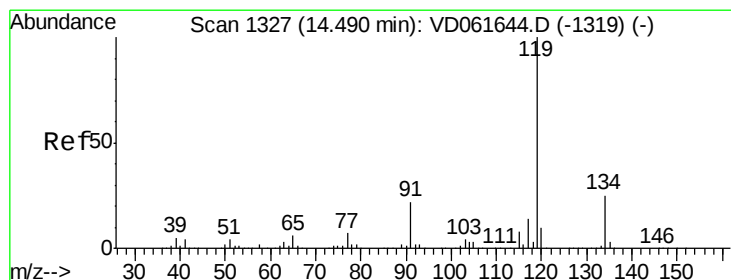
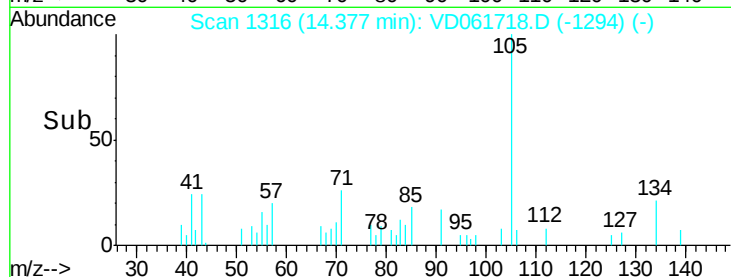
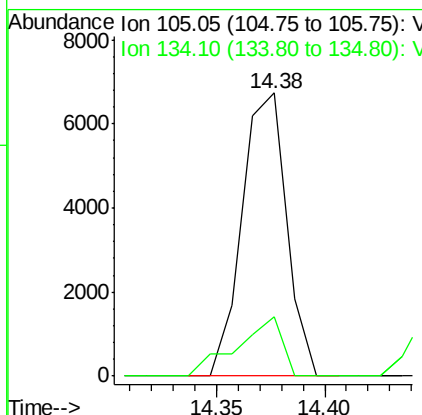
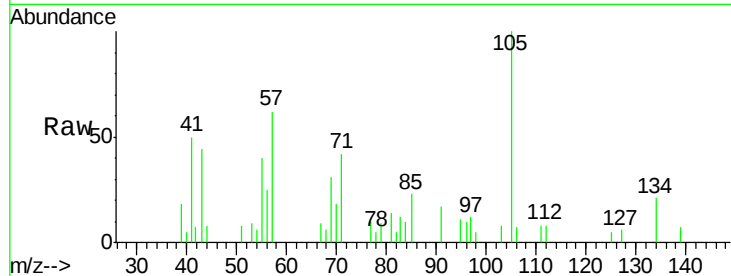




#85
 sec-Butylbenzene
 Concen: 1.705 ug/l
 RT: 14.38 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VD061718.D
 Acq: 10 Apr 2019 17:38

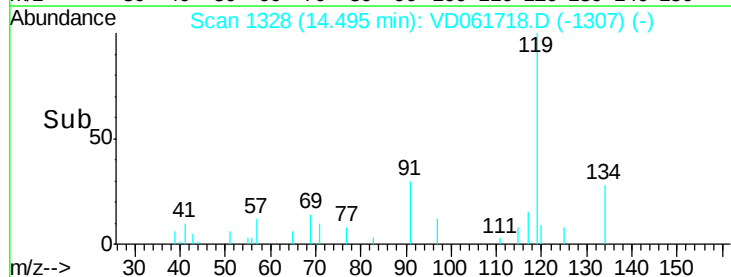
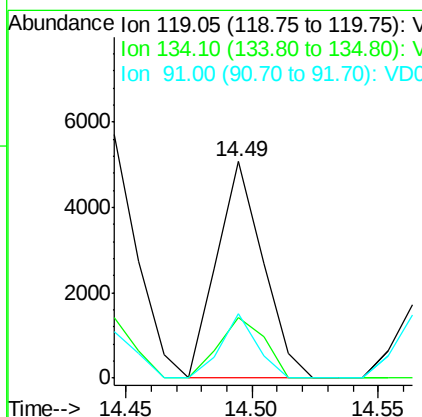
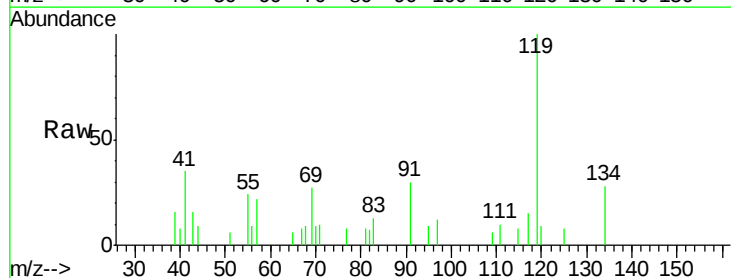
Instrument :
 MSVOA_D
 ClientSampleId :
 20190174-AMND-COMP-CS-1RE

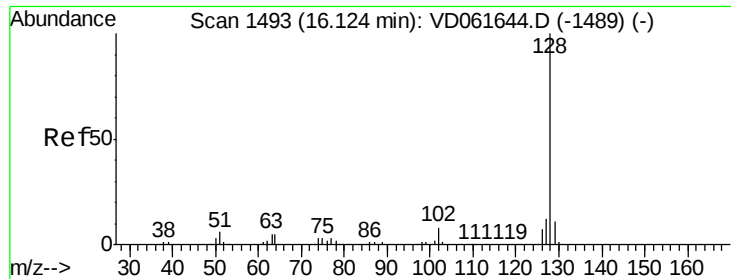
Tgt Ion:105 Resp: 9713
 Ion Ratio Lower Upper
 105 100
 134 20.8 8.6 25.7



#86
 p-Isopropyltoluene
 Concen: 1.302 ug/l
 RT: 14.49 min Scan# 1328
 Delta R.T. 0.00 min
 Lab File: VD061718.D
 Acq: 10 Apr 2019 17:38

Tgt Ion:119 Resp: 6432
 Ion Ratio Lower Upper
 119 100
 134 27.8 12.5 37.5
 91 29.6 11.0 33.0





#95
 Naphthalene
 Concen: 14.546 ug/l
 RT: 16.13 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VD061718.D
 Acq: 10 Apr 2019 17:38

Instrument :
 MSVOA_D
 ClientSampleId :
 20190174-AMND-COMP-CS-1RE

Tgt Ion:128 Resp: 26599
 Ion Ratio Lower Upper
 128 100
 127 12.9 9.4 14.2
 129 11.4 8.8 13.2

