

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD040919\
 Data File : VD061688.D
 Acq On : 9 Apr 2019 21:25
 Operator : VA/AP
 Sample : K2316-05
 Misc : 5.02g/5ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190173-COMP-CS-5

Quant Time: Apr 10 03:43:19 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	7.08	168	444631	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.25	114	764376	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.39	117	470346	50.00	ug/l	0.03
72) 1,4-Dichlorobenzene-d4	14.53	152	114800	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.49	65	184633	54.78	ug/l	0.03
Spiked Amount			Recovery	=	109.56%	
35) Dibromofluoromethane	6.96	113	283408	53.52	ug/l	0.04
Spiked Amount			Recovery	=	107.04%	
50) Toluene-d8	10.44	98	568091	42.70	ug/l	0.03
Spiked Amount			Recovery	=	85.40%	
62) 4-Bromofluorobenzene	13.58	95	167297	33.32	ug/l	0.03
Spiked Amount			Recovery	=	66.64%	

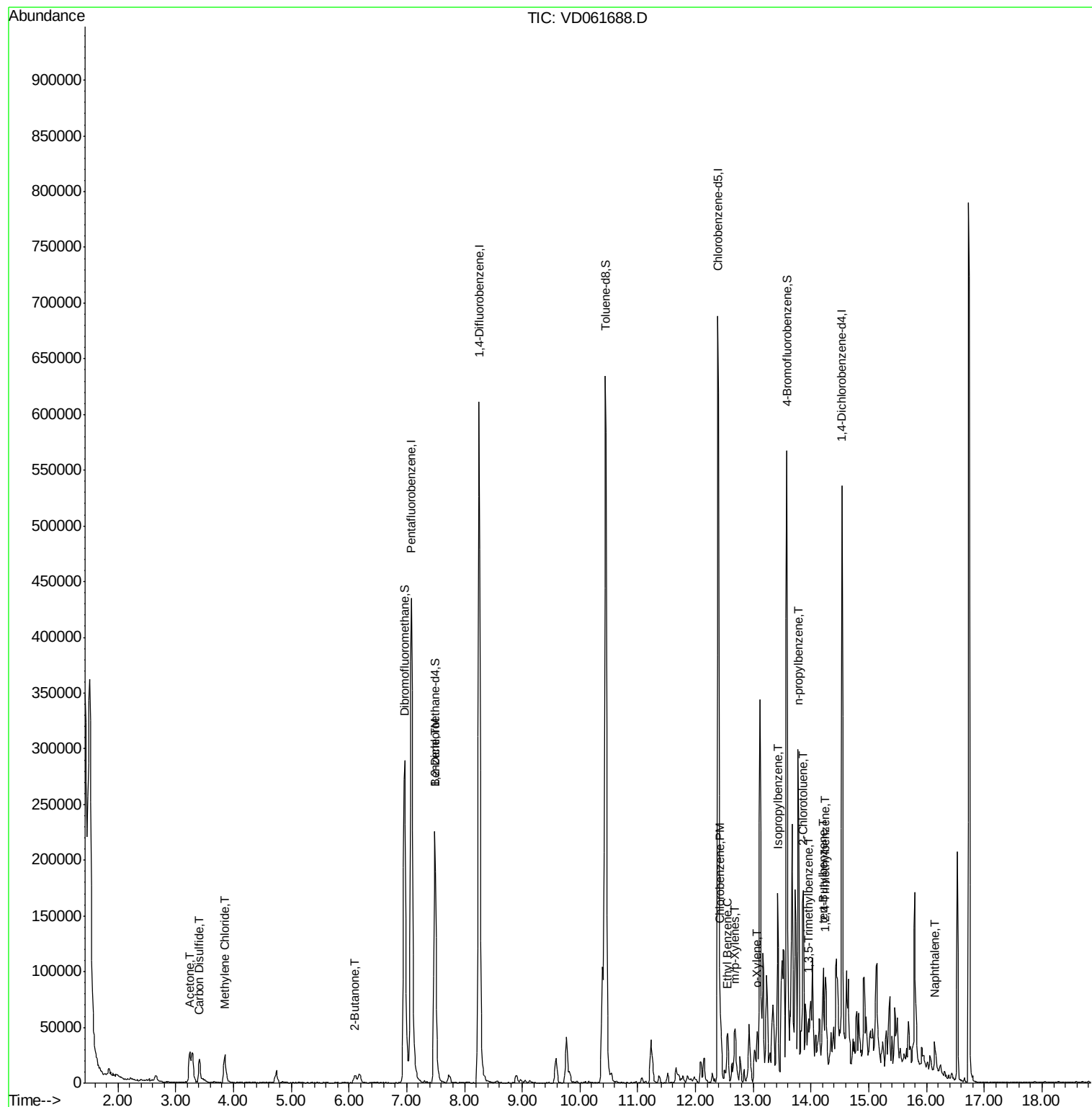
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.24	43	54755	54.348	ug/l	97
17) Carbon Disulfide	3.41	76	40476	2.687	ug/l	100
20) Methylene Chloride	3.85	84	19841	3.471	ug/l	94
25) 2-Butanone	6.10	43	18465	15.898	ug/l	98
40) Benzene	7.49	78	48622	3.013	ug/l	99
65) Chlorobenzene	12.43	112	25815	2.768	ug/l #	87
67) Ethyl Benzene	12.55	91	23225	1.635	ug/l	92
68) m/p-Xylenes	12.68	106	14274	2.607	ug/l	93
69) o-Xylene	13.07	106	11339	2.145	ug/l	97
73) Isopropylbenzene	13.42	105	101303	13.244	ug/l	100
78) n-propylbenzene	13.78	91	25332	2.769	ug/l #	54
79) 2-Chlorotoluene	13.86	91	76247	14.572	ug/l	92
80) 1,3,5-Trimethylbenzene	13.95	105	10910	1.797	ug/l	93
83) tert-Butylbenzene	14.21	119	26351	3.600	ug/l	96
84) 1,2,4-Trimethylbenzene	14.26	105	20999	3.427	ug/l	96
95) Naphthalene	16.14	128	17107	6.738	ug/l #	95

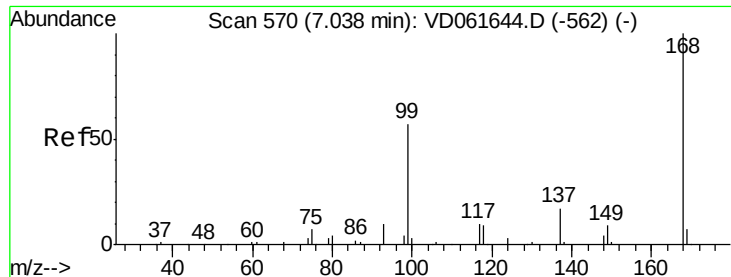
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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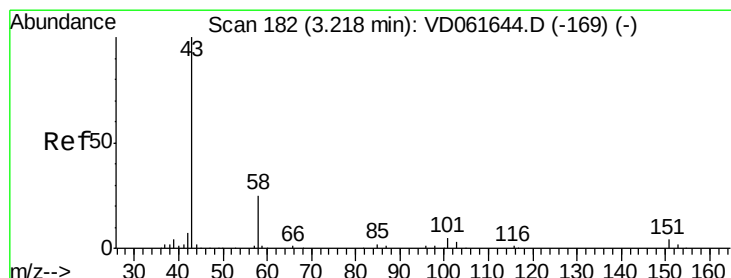
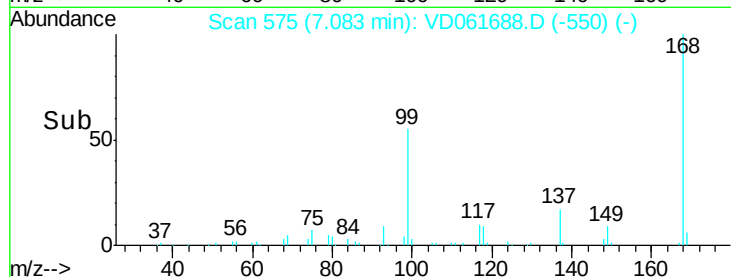
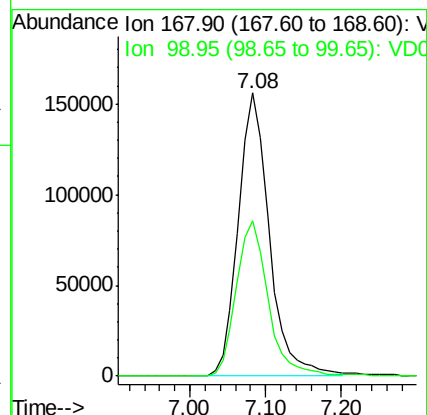
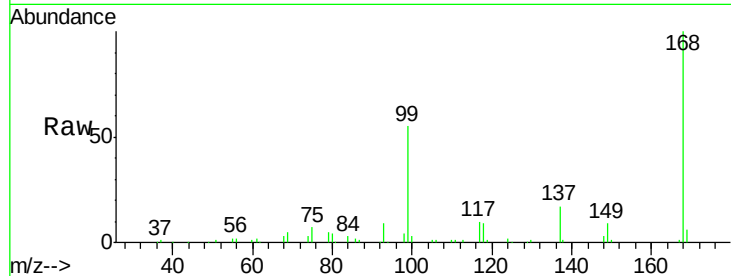




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.08 min Scan# 575
Delta R.T. 0.04 min
Lab File: VD061688.D
Acq: 9 Apr 2019 21:25

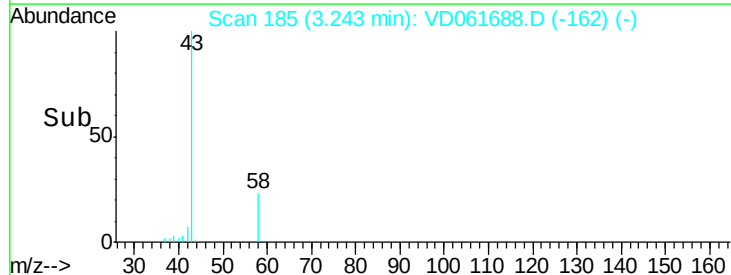
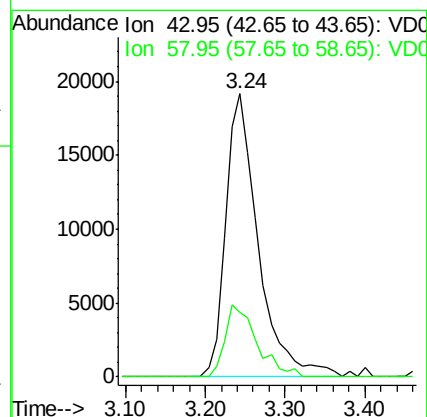
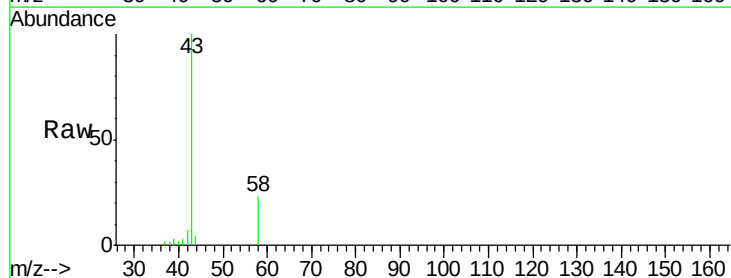
Instrument :
MSVOA_D
ClientSampleId :
20190173-COMP-CS-5

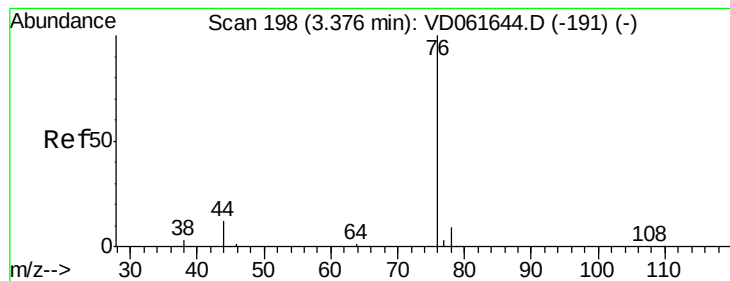
Tot Ion:168 Resp: 444631
Ion Ratio Lower Upper
168 100
99 54.8 46.8 70.2



#16
Acetone
Concen: 54.348 ug/l
RT: 3.24 min Scan# 185
Delta R.T. 0.03 min
Lab File: VD061688.D
Acq: 9 Apr 2019 21:25

Tgt Ion: 43 Resp: 54755
Ion Ratio Lower Upper
43 100
58 22.9 19.7 29.5





#17

Carbon Disulfide

Concen: 2.687 ug/l

RT: 3.41 min Scan# 202

Delta R.T. 0.03 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

Instrument :

MSVOA_D

ClientSampleId :

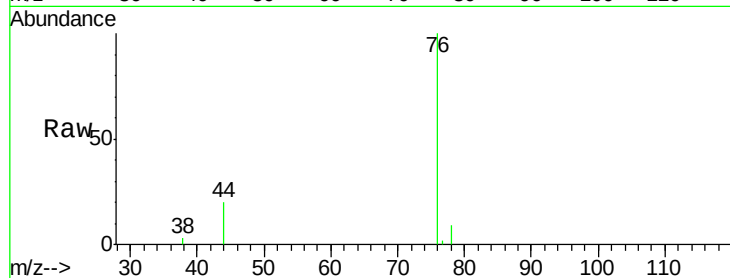
20190173-COMP-CS-5

Tot Ion: 76 Resp: 40476

Ion Ratio Lower Upper

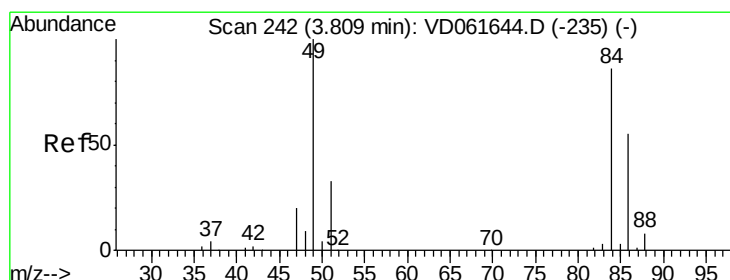
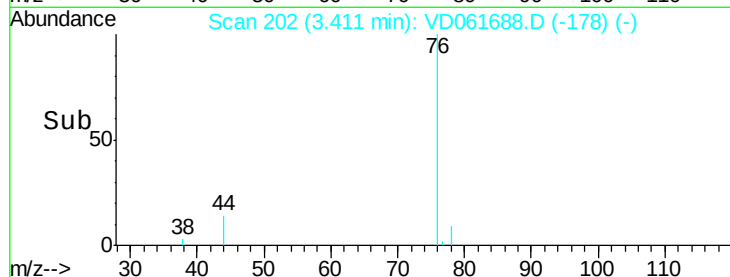
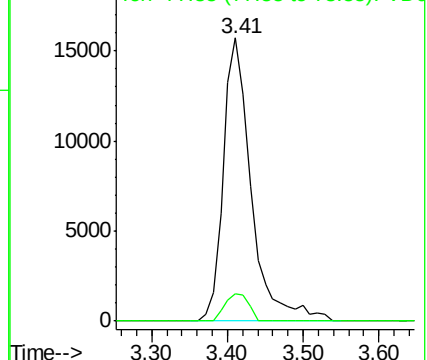
76 100

78 9.5 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: 3.471 ug/l

RT: 3.85 min Scan# 247

Delta R.T. 0.05 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

Tgt Ion: 84 Resp: 19841

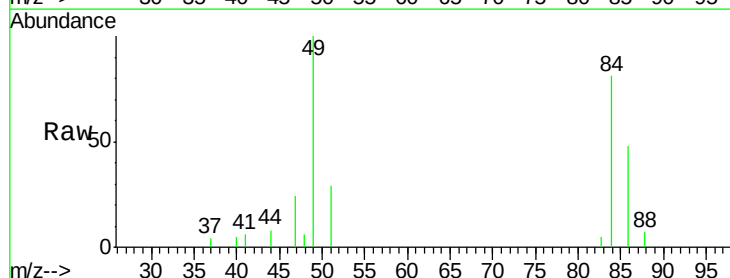
Ion Ratio Lower Upper

84 100

49 123.4 93.0 139.4

51 35.4 30.4 45.6

86 58.8 51.0 76.4

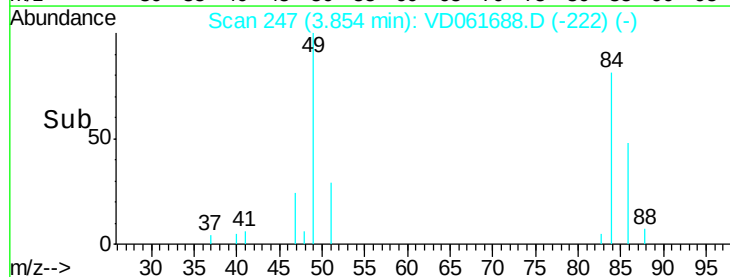
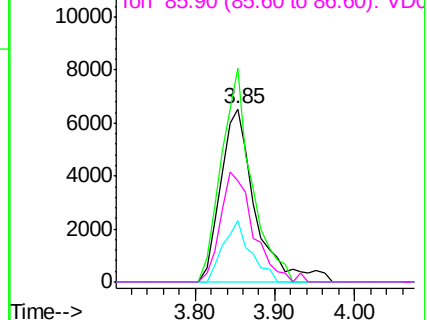


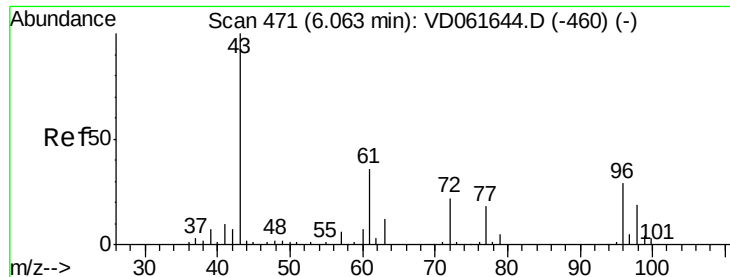
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 15.898 ug/l

RT: 6.10 min Scan# 475

Delta R.T. 0.03 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

Instrument :

MSVOA_D

ClientSampleId :

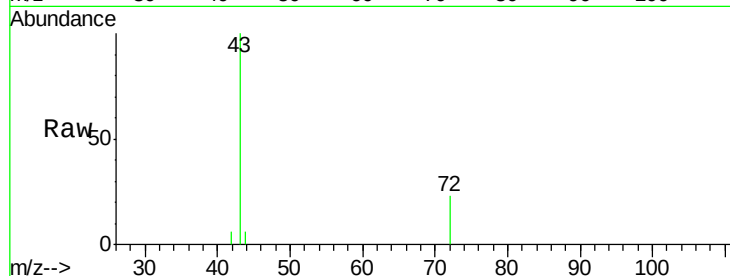
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Tot Ion: 43 Resp: 18465

Ion Ratio Lower Upper

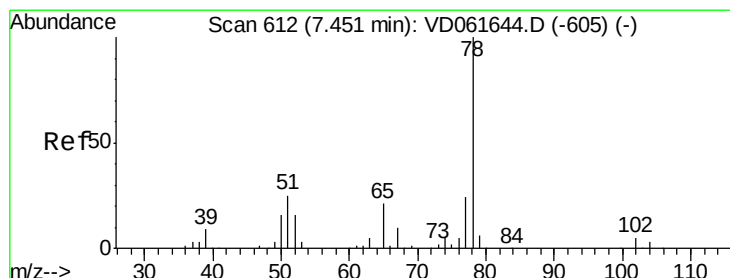
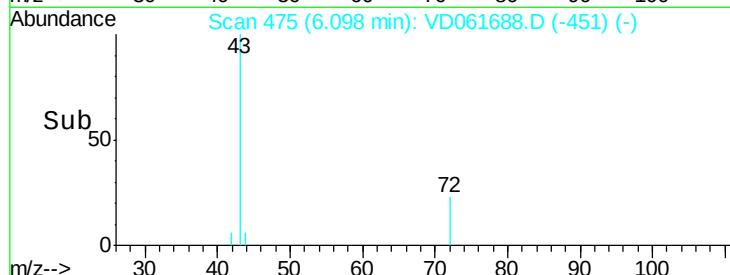
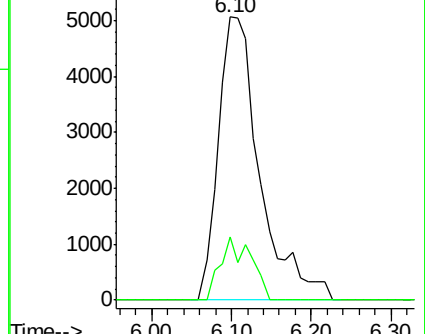
43 100

72 22.5 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: N.D. ug/l

RT: 7.49 min Scan# 616

Delta R.T. 0.03 min

Lab File: VD061688.D

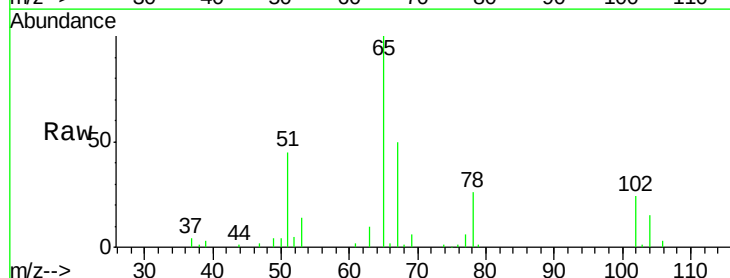
Acq: 9 Apr 2019 21:25

Tgt Ion: 65 Resp: 184633

Ion Ratio Lower Upper

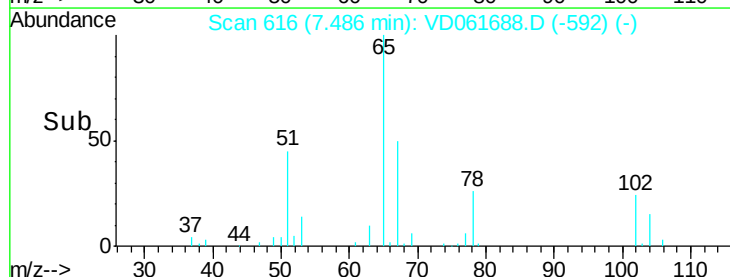
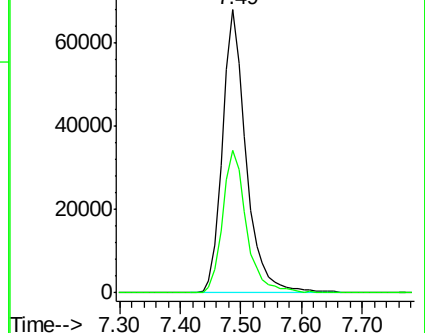
65 100

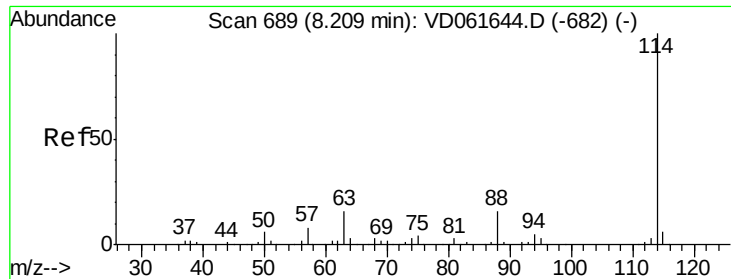
67 50.3 0.0 99.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

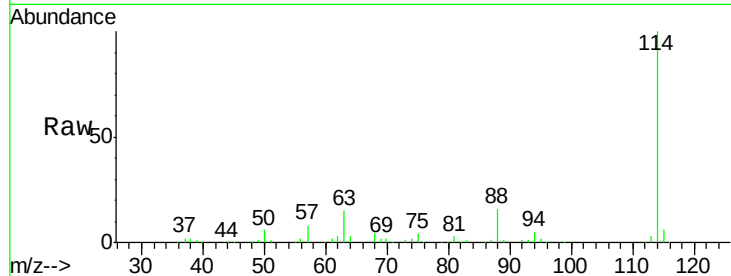




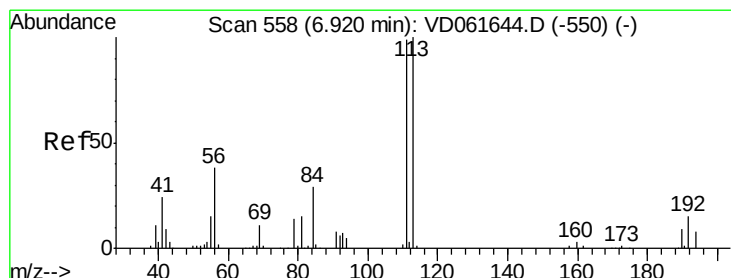
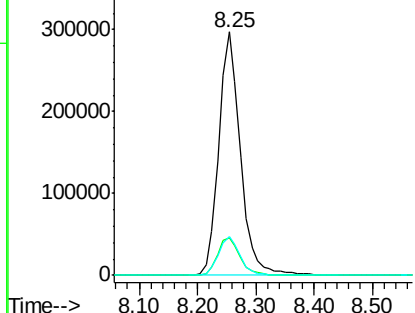
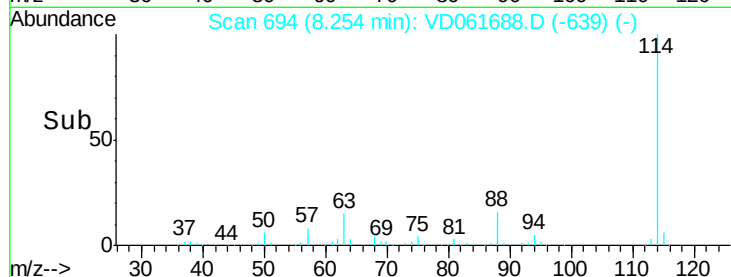
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.25 min Scan# 694
 Delta R.T. 0.04 min
 Lab File: VD061688.D
 Acq: 9 Apr 2019 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 20190173-COMP-CS-5

Tot Ion:114 Resp: 764376
 Ion Ratio Lower Upper
 114 100
 63 15.2 0.0 31.2
 88 15.8 0.0 31.8

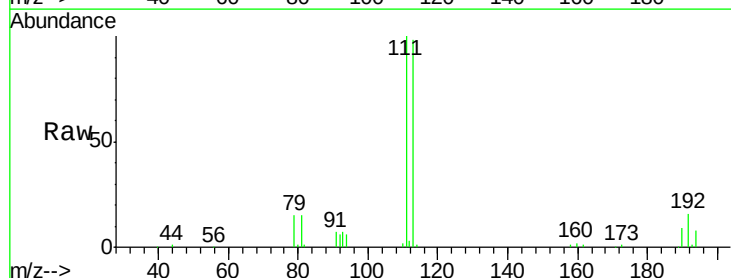


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 62.95 (62.65 to 63.65): V
 Ion 87.90 (87.60 to 88.60): V

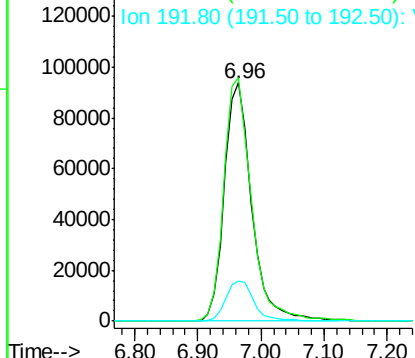
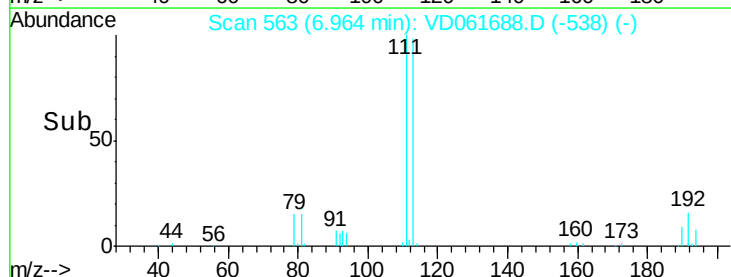


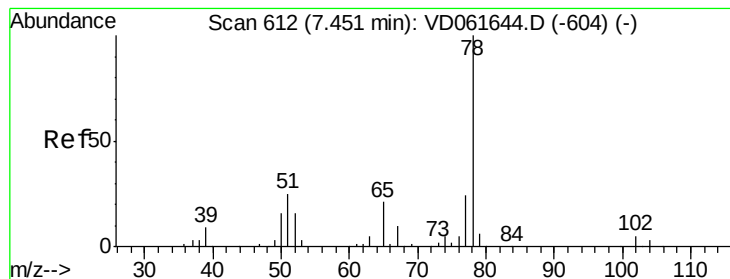
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.96 min Scan# 563
 Delta R.T. 0.04 min
 Lab File: VD061688.D
 Acq: 9 Apr 2019 21:25

Tgt Ion:113 Resp: 283408
 Ion Ratio Lower Upper
 113 100
 111 102.3 79.3 118.9
 192 16.8 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





#40

Benzene

Concen: 3.013 ug/l

RT: 7.49 min Scan# 616

Delta R.T. 0.03 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

Instrument :

MSVOA_D

ClientSampleId :

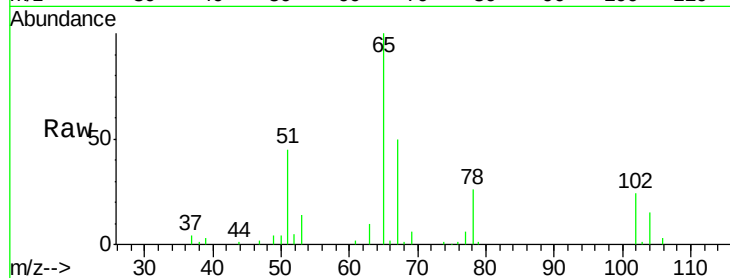
20190173-COMP-CS-5

Tot Ion: 78 Resp: 48622

Ion Ratio Lower Upper

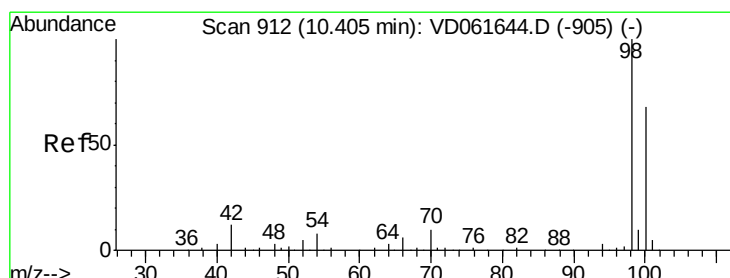
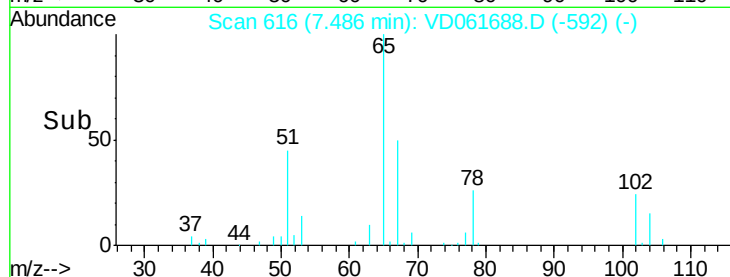
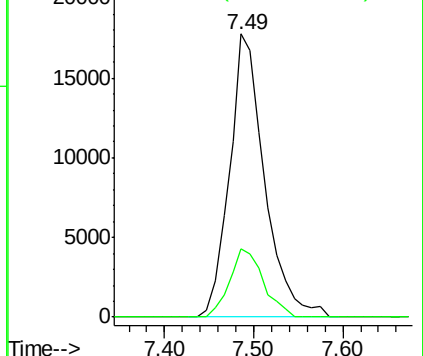
78 100

77 24.0 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: N.D. ug/l

RT: 10.44 min Scan# 916

Delta R.T. 0.03 min

Lab File: VD061688.D

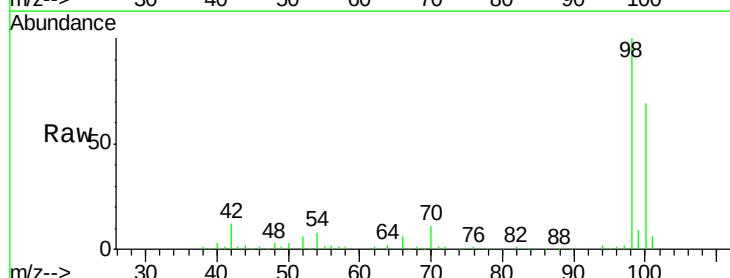
Acq: 9 Apr 2019 21:25

Tgt Ion: 98 Resp: 568091

Ion Ratio Lower Upper

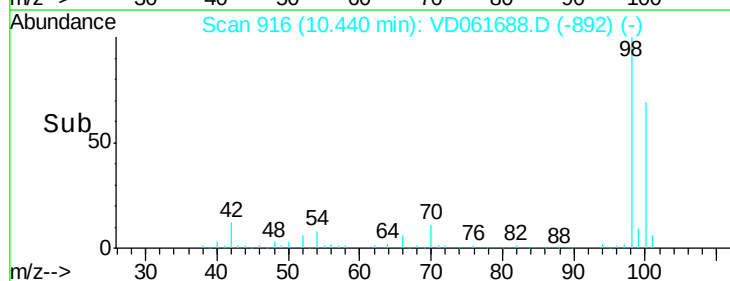
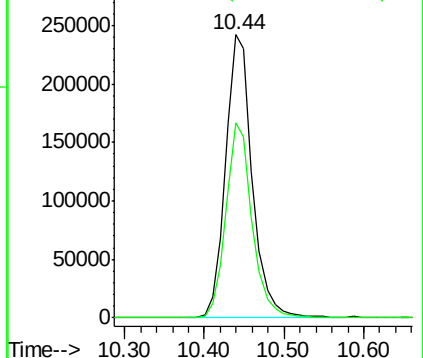
98 100

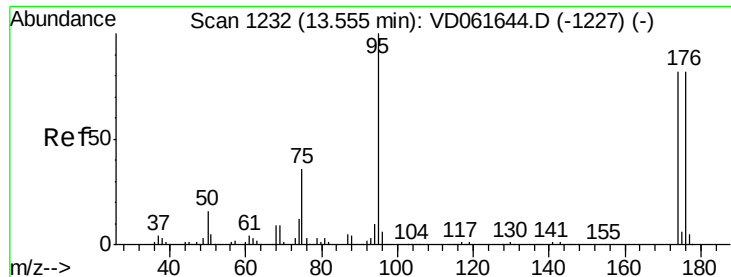
100 69.0 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.58 min Scan# 1235

Delta R.T. 0.03 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

Instrument :

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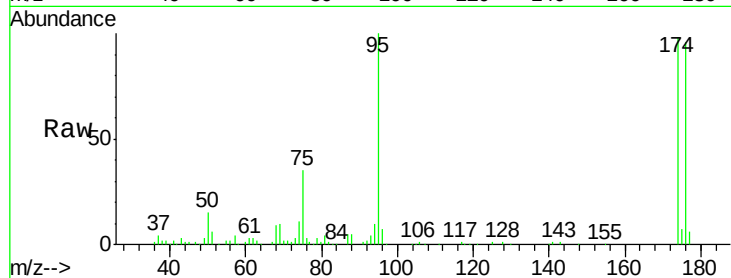
Tot Ion: 95 Resp: 167297

Ion Ratio Lower Upper

95 100

174 97.6 0.0 164.6

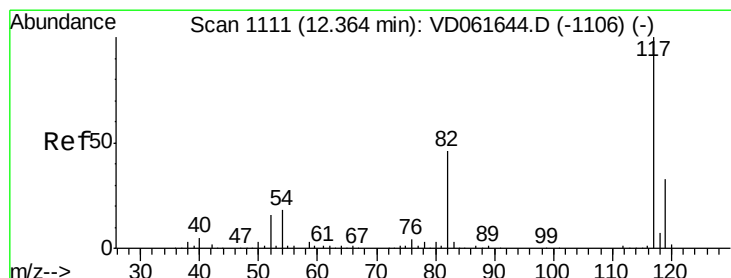
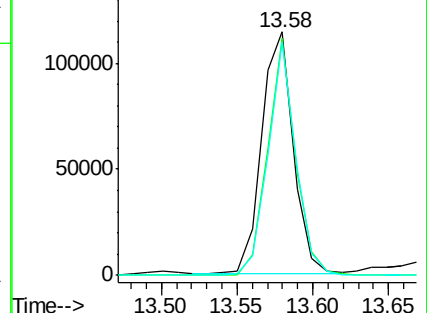
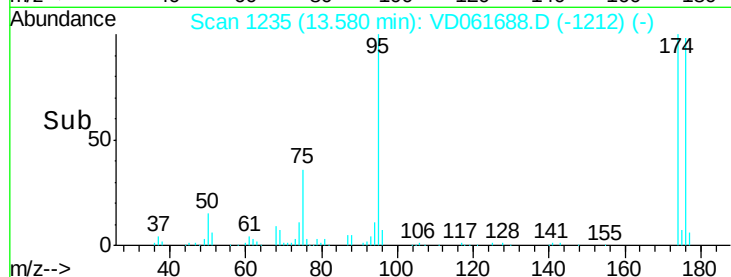
176 95.7 0.0 165.0



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: 12.39 min Scan# 1114

Delta R.T. 0.03 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

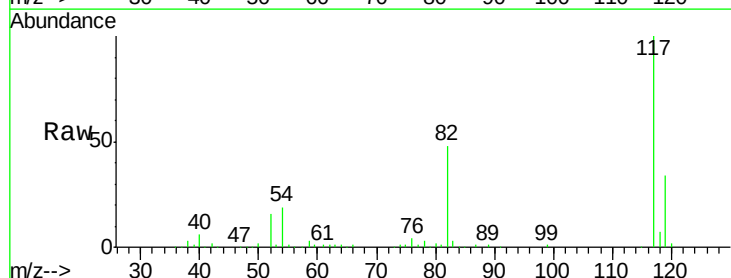
Tgt Ion: 117 Resp: 470346

Ion Ratio Lower Upper

117 100

82 47.6 36.8 55.2

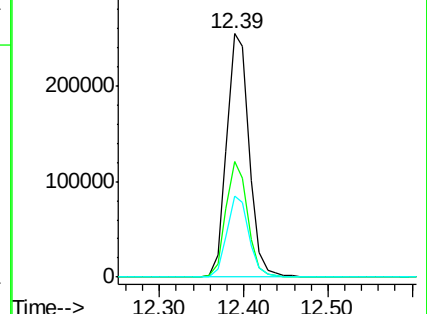
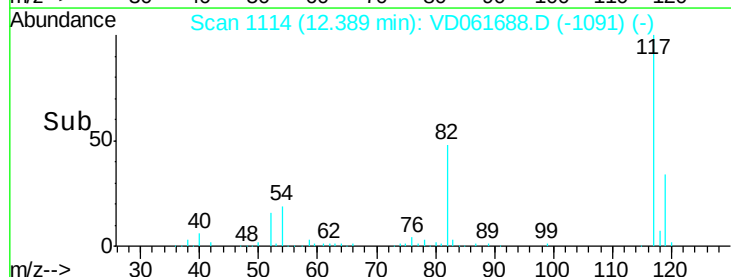
119 33.5 26.1 39.1

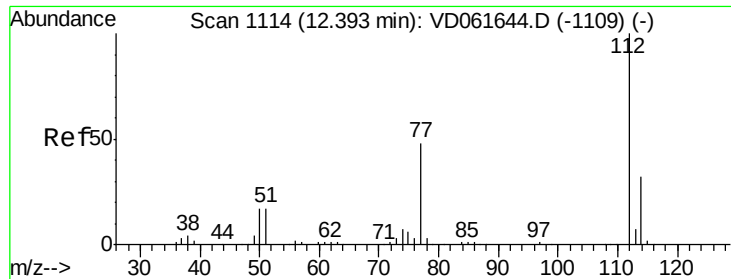


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

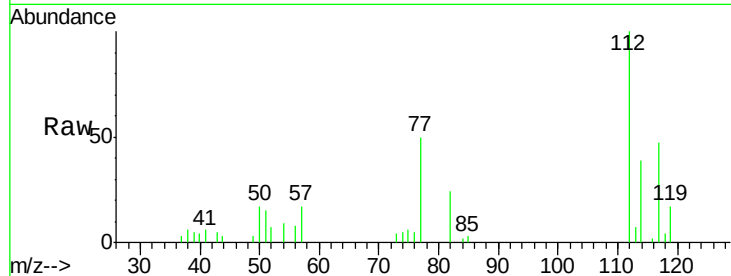




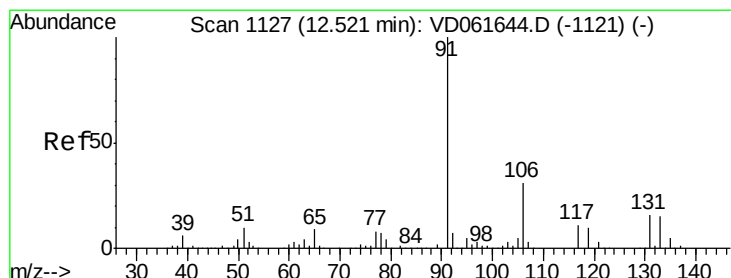
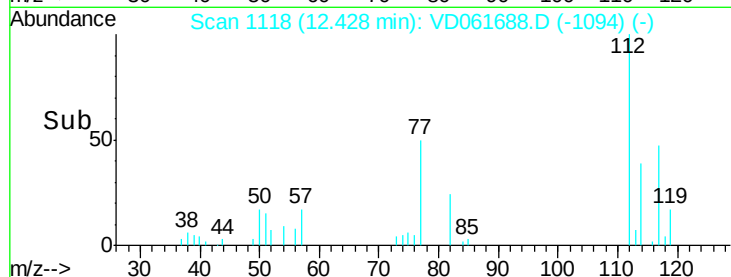
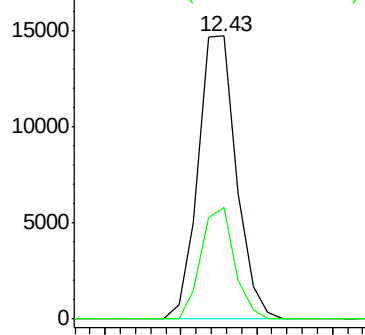
#65
Chlorobenzene
Concen: 2.768 ug/l
RT: 12.43 min Scan# 1118
Delta R.T. 0.03 min
Lab File: VD061688.D
Acq: 9 Apr 2019 21:25

Instrument :
MSVOA_D
ClientSampleId :
20190173-COMP-CS-5

Tot Ion:112 Resp: 25815
Ion Ratio Lower Upper
112 100
114 39.5 25.6 38.4#

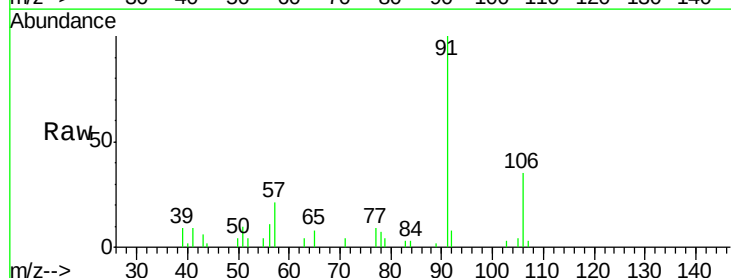


Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

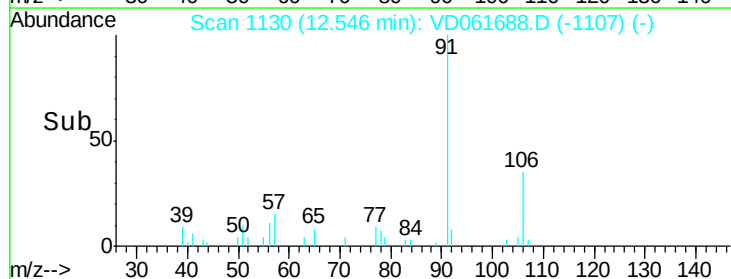
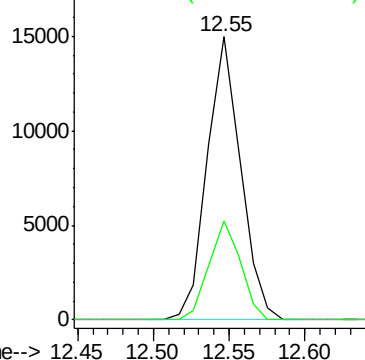


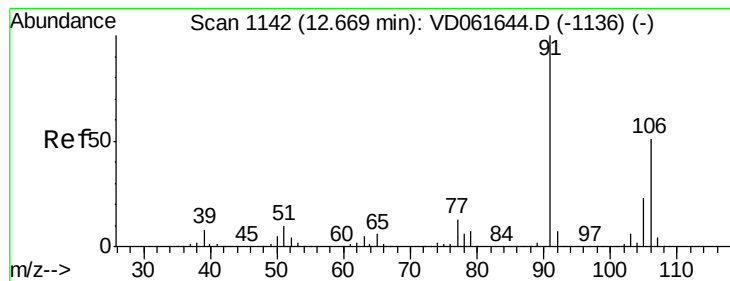
#67
Ethyl Benzene
Concen: 1.635 ug/l
RT: 12.55 min Scan# 1130
Delta R.T. 0.03 min
Lab File: VD061688.D
Acq: 9 Apr 2019 21:25

Tgt Ion: 91 Resp: 23225
Ion Ratio Lower Upper
91 100
106 35.1 24.6 37.0



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





#68

m/p-Xylenes

Concen: 2.607 ug/l

RT: 12.68 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

Instrument :

MSVOA_D

ClientSampleId :

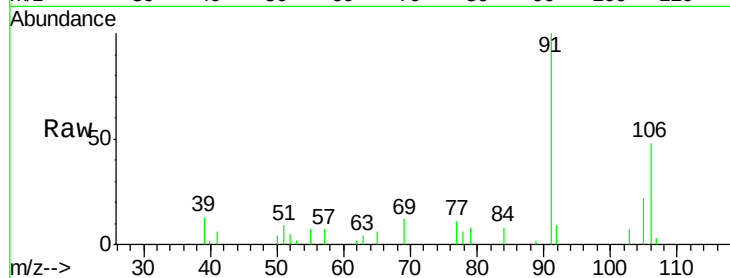
20190173-COMP-CS-5

Tot Ion:106 Resp: 14274

Ion Ratio Lower Upper

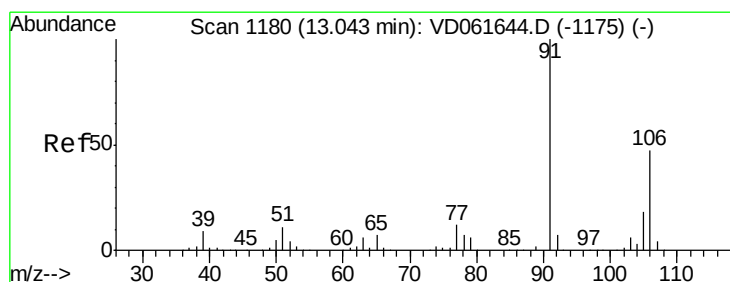
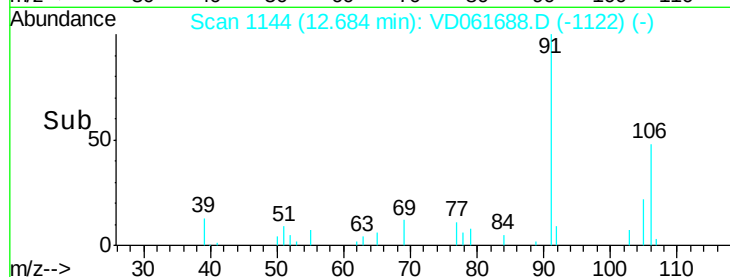
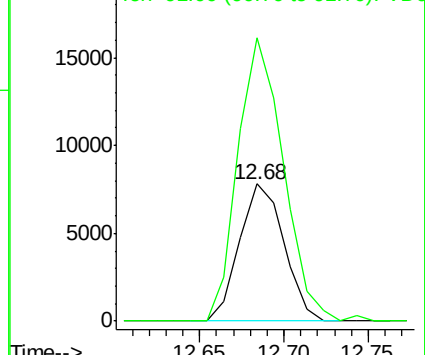
106 100

91 206.3 156.7 235.1



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 2.145 ug/l

RT: 13.07 min Scan# 1183

Delta R.T. 0.03 min

Lab File: VD061688.D

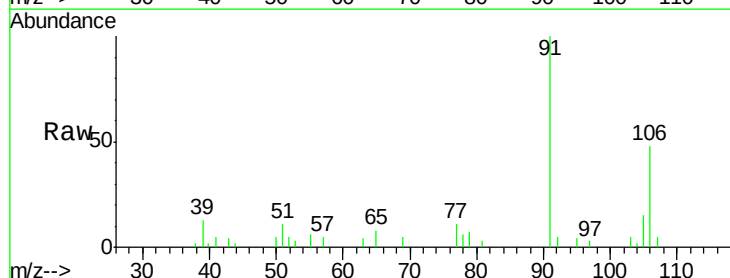
Acq: 9 Apr 2019 21:25

Tgt Ion:106 Resp: 11339

Ion Ratio Lower Upper

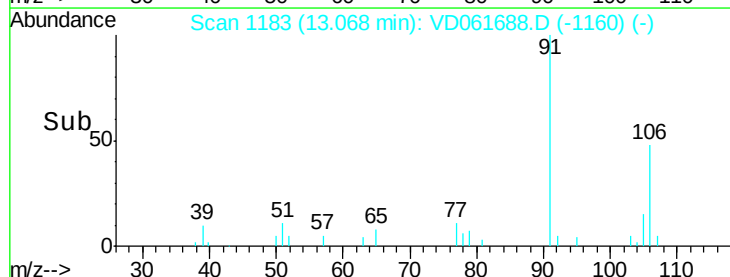
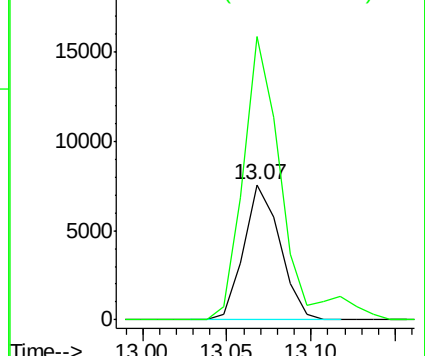
106 100

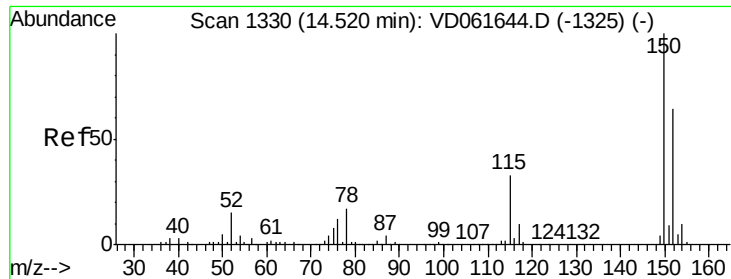
91 209.4 107.3 321.9



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: 14.53 min Scan# 1332

Delta R.T. 0.02 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

Instrument :

MSVOA_D

ClientSampleId :

20190173-COMP-CS-5

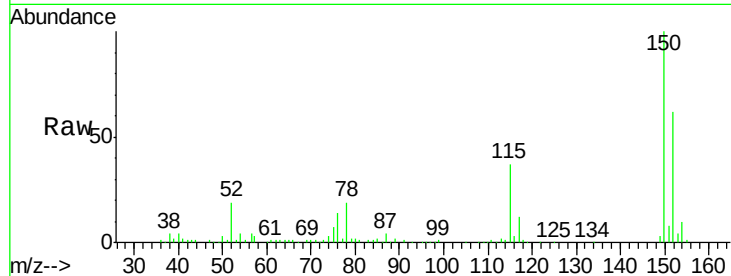
Tot Ion:152 Resp: 114800

Ion Ratio Lower Upper

152 100

115 59.2 26.4 79.2

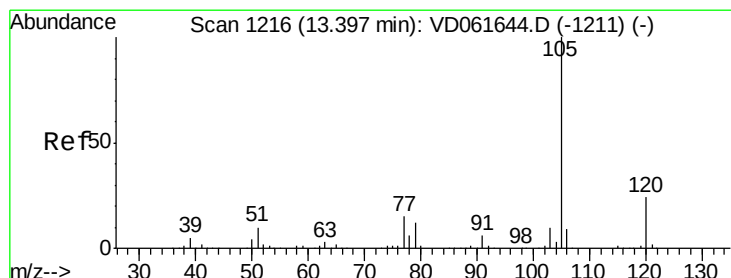
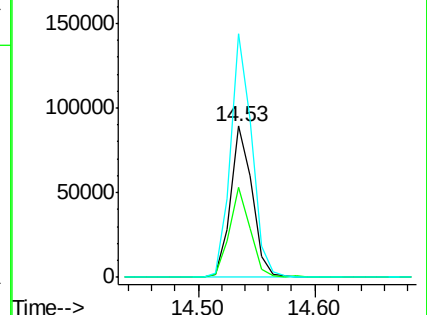
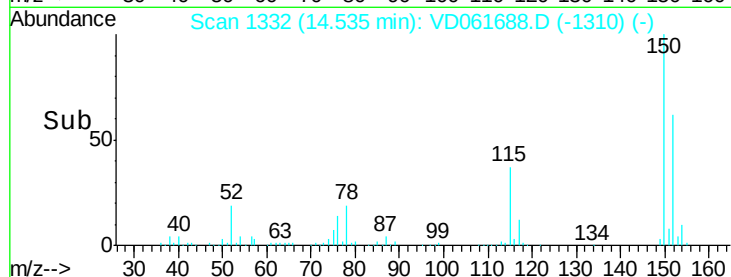
150 161.2 0.0 320.6



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: 13.244 ug/l

RT: 13.42 min Scan# 1219

Delta R.T. 0.03 min

Lab File: VD061688.D

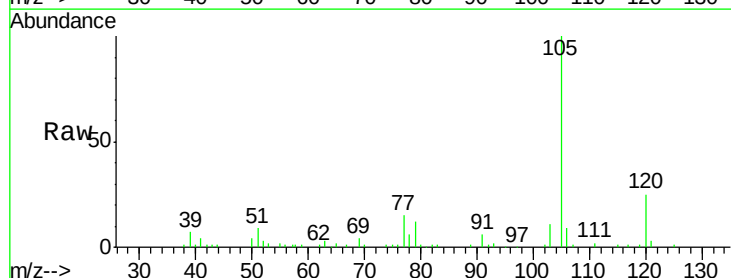
Acq: 9 Apr 2019 21:25

Tgt Ion:105 Resp: 101303

Ion Ratio Lower Upper

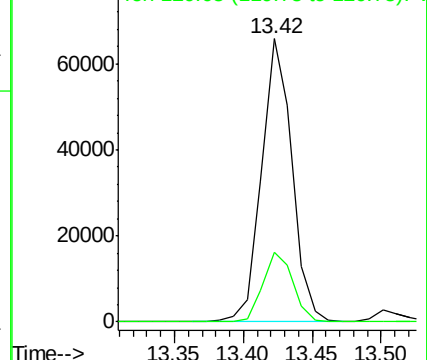
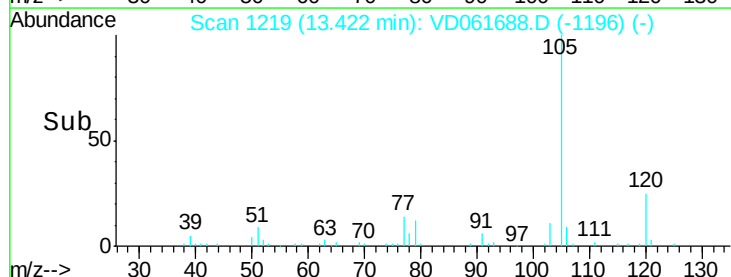
105 100

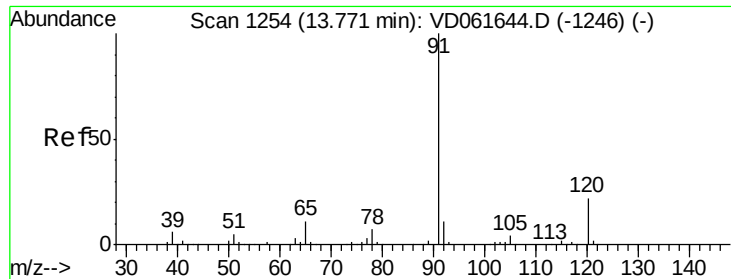
120 24.5 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 2.769 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD061688.D

Acq: 9 Apr 2019 21:25

Instrument :

MSVOA_D

ClientSampleId :

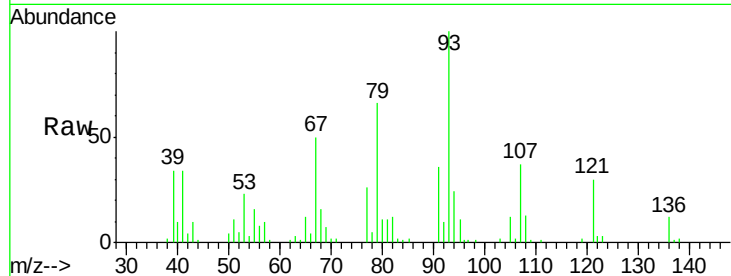
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Tot Ion: 91 Resp: 25332

Ion Ratio Lower Upper

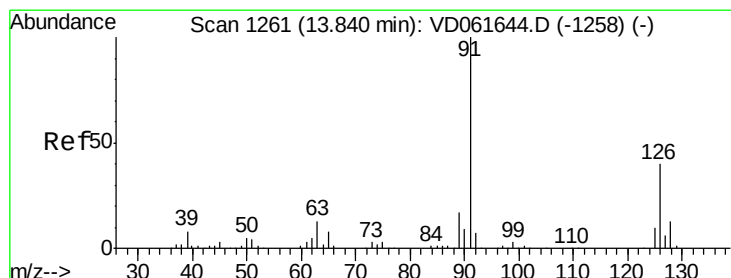
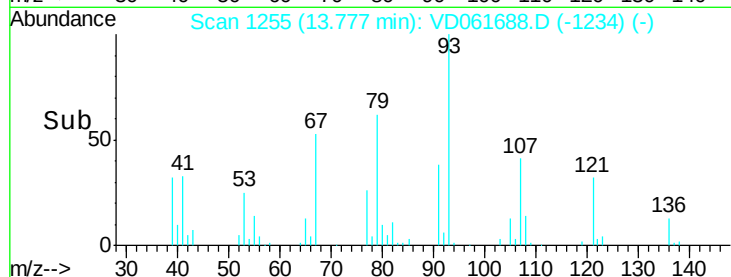
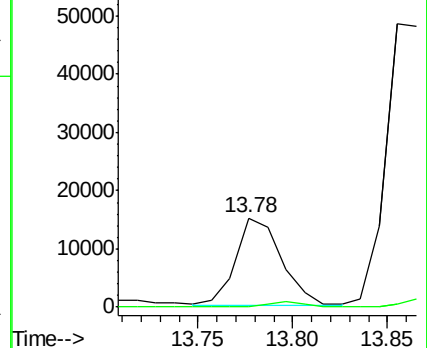
91 100

120 0.0 10.8 32.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): V



#79

2-Chlorotoluene

Concen: 14.572 ug/l

RT: 13.86 min Scan# 1263

Delta R.T. 0.02 min

Lab File: VD061688.D

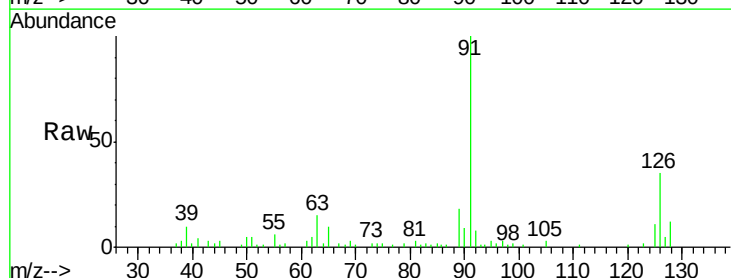
Acq: 9 Apr 2019 21:25

Tgt Ion: 91 Resp: 76247

Ion Ratio Lower Upper

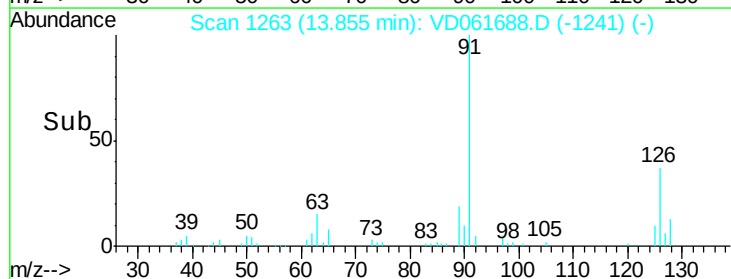
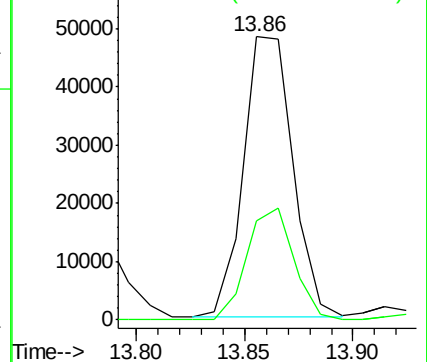
91 100

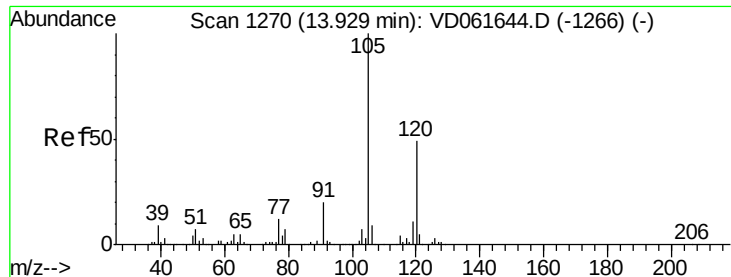
126 35.0 20.0 59.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

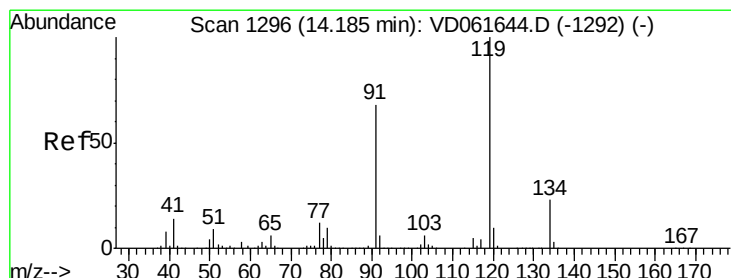
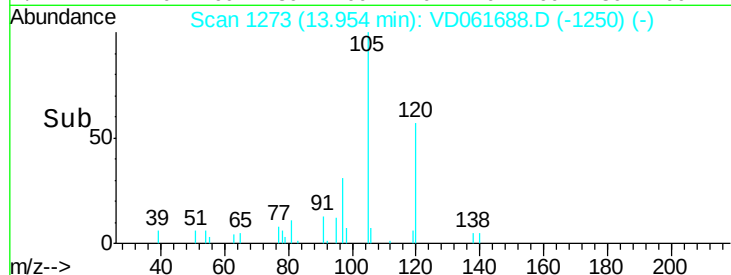
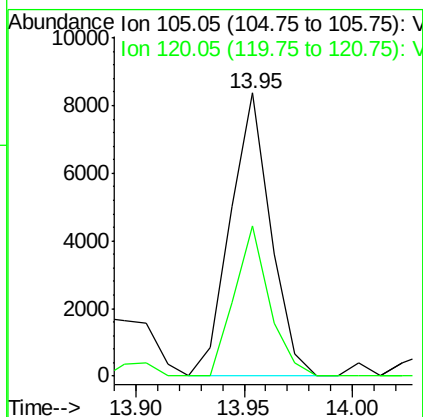
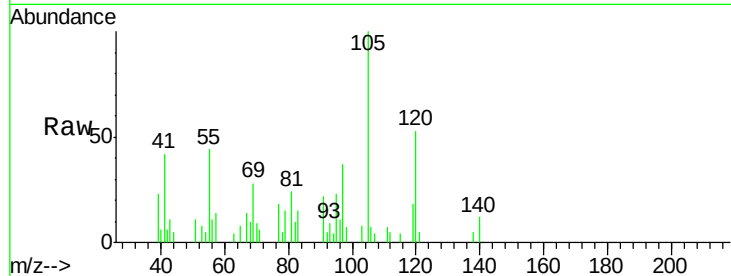




#80
1,3,5-Trimethylbenzene
Concen: 1.797 ug/l
RT: 13.95 min Scan# 1273
Delta R.T. 0.03 min
Lab File: VD061688.D
Acq: 9 Apr 2019 21:25

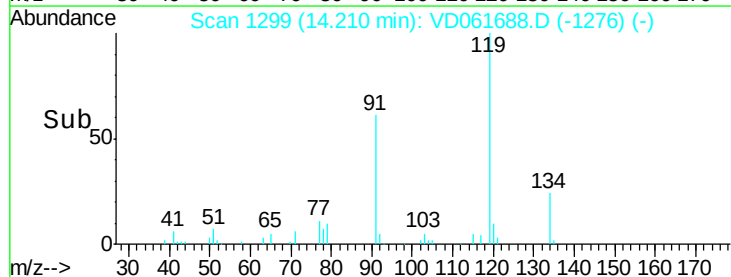
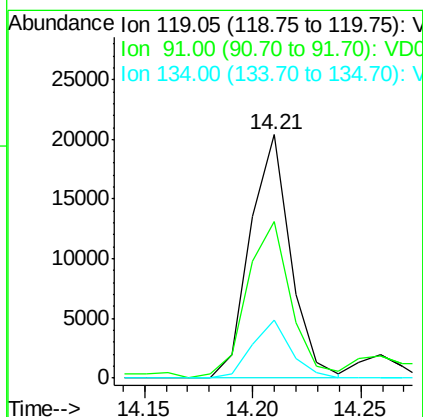
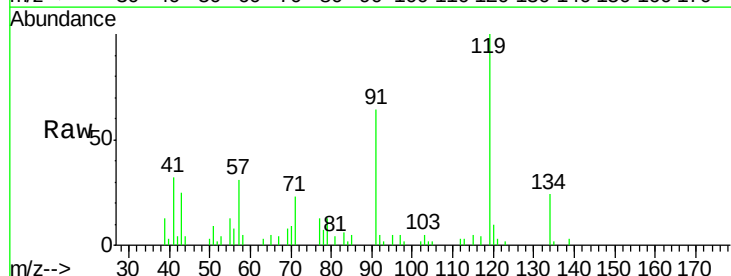
Instrument :
MSVOA_D
ClientSampleId :
20190173-COMP-CS-5

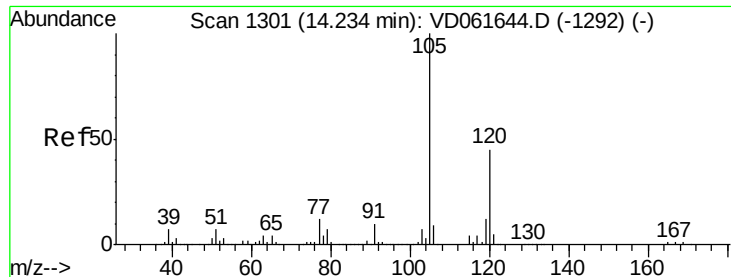
Tot Ion:105 Resp: 10910
Ion Ratio Lower Upper
105 100
120 53.3 24.4 73.2



#83
tert-Butylbenzene
Concen: 3.600 ug/l
RT: 14.21 min Scan# 1299
Delta R.T. 0.03 min
Lab File: VD061688.D
Acq: 9 Apr 2019 21:25

Tgt Ion:119 Resp: 26351
Ion Ratio Lower Upper
119 100
91 64.1 33.9 101.6
134 23.6 11.6 34.8

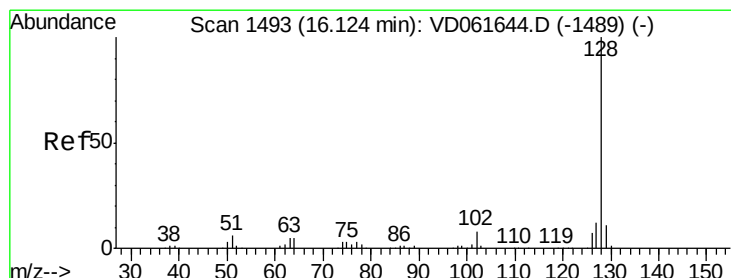
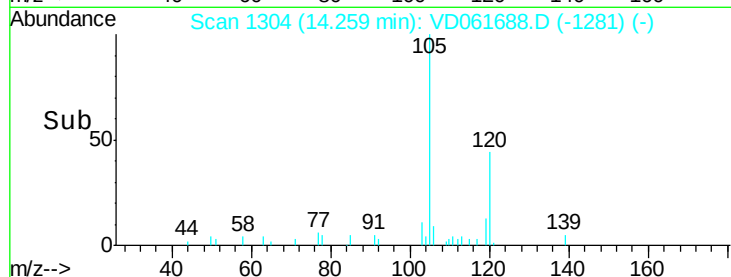
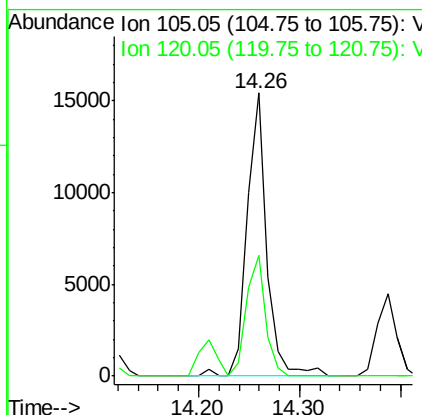
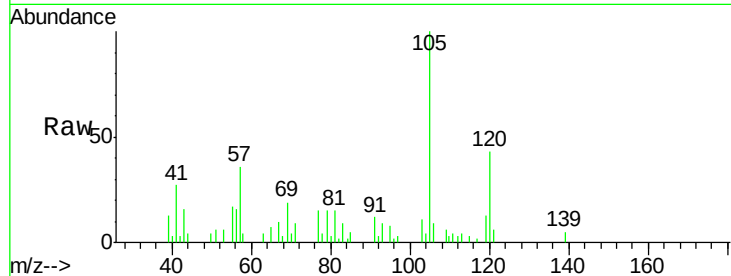




#84
 1,2,4-Trimethylbenzene
 Concen: 3.427 ug/l
 RT: 14.26 min Scan# 1304
 Delta R.T. 0.03 min
 Lab File: VD061688.D
 Acq: 9 Apr 2019 21:25

Instrument :
 MSVOA_D
 ClientSampleId :
 20190173-COMP-CS-5

Tot Ion:105 Resp: 20999
 Ion Ratio Lower Upper
 105 100
 120 42.6 22.6 67.8



#95
 Naphthalene
 Concen: 6.738 ug/l
 RT: 16.14 min Scan# 1495
 Delta R.T. 0.02 min
 Lab File: VD061688.D
 Acq: 9 Apr 2019 21:25

Tgt Ion:128 Resp: 17107
 Ion Ratio Lower Upper
 128 100
 127 15.0 9.4 14.2#
 129 11.4 8.8 13.2

