

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD040919\
 Data File : VD061685.D
 Acq On : 9 Apr 2019 20:01
 Operator : VA/AP
 Sample : K2316-02
 Misc : 5.10g/5ml/MSVOA_D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 20190170-COMP-CS-2

Quant Time: Apr 10 02:33:01 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	344756	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.25	114	546469	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.39	117	352437	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.53	152	80340	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.50	65	175103	67.01	ug/l	0.04
Spiked Amount			Recovery	=	134.02%	
35) Dibromofluoromethane	6.96	113	262553	69.35	ug/l	0.04
Spiked Amount			Recovery	=	138.70%	
50) Toluene-d8	10.44	98	493433	51.88	ug/l	0.03
Spiked Amount			Recovery	=	103.76%	
62) 4-Bromofluorobenzene	13.57	95	119104	33.16	ug/l	0.02
Spiked Amount			Recovery	=	66.32%	

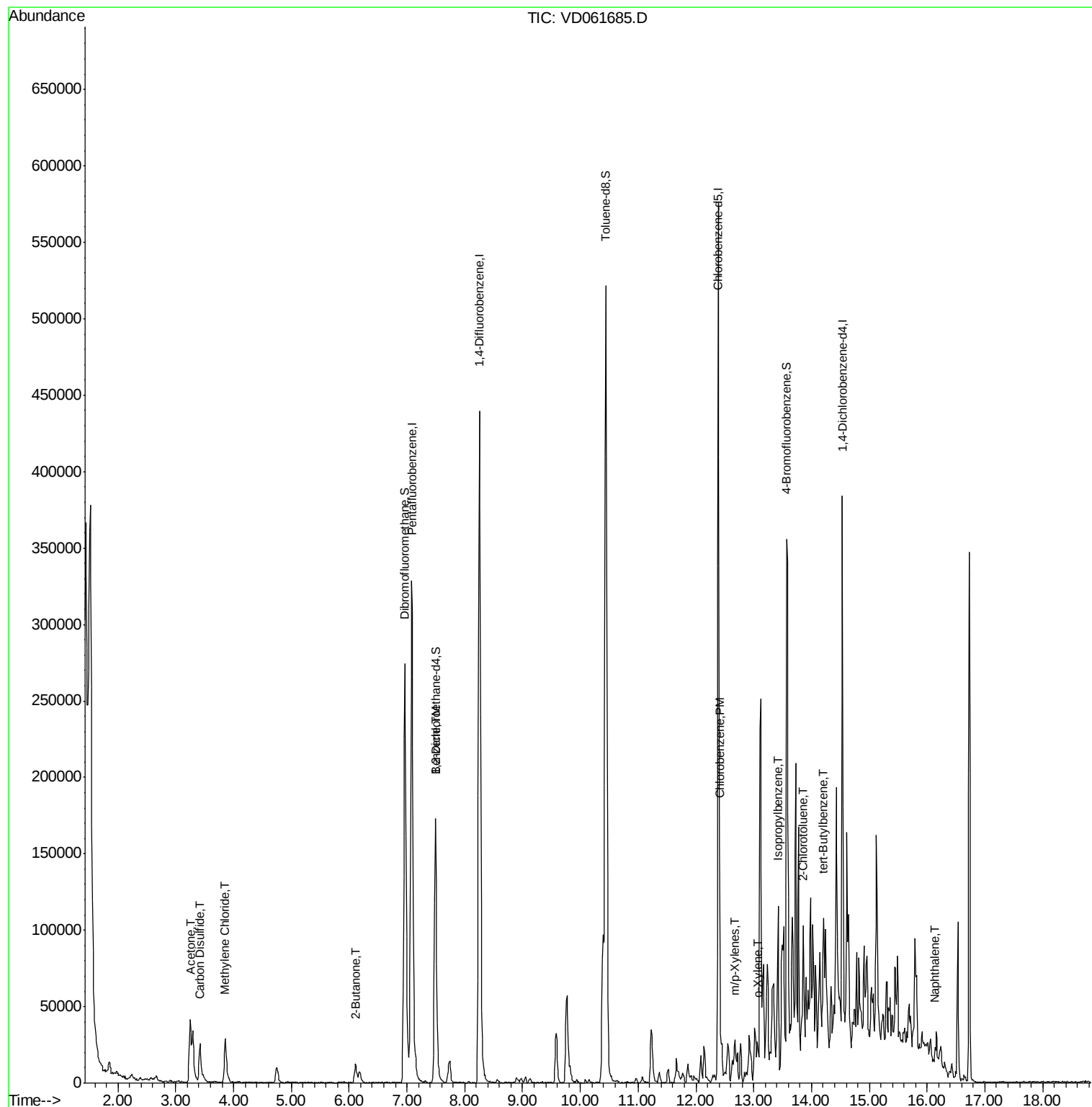
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.25	43	82520	105.635	ug/l	96
17) Carbon Disulfide	3.42	76	49049	4.200	ug/l	98
20) Methylene Chloride	3.85	84	22502	5.076	ug/l #	95
25) 2-Butanone	6.11	43	27359	30.380	ug/l	95
40) Benzene	7.50	78	13099	1.135	ug/l	99
65) Chlorobenzene	12.42	112	12043	1.723	ug/l	98
68) m/p-Xylenes	12.68	106	7059	1.720	ug/l	93
69) o-Xylene	13.07	106	5103	1.288	ug/l	93
73) Isopropylbenzene	13.42	105	57272	10.699	ug/l	99
79) 2-Chlorotoluene	13.85	91	31990	8.736	ug/l	99
83) tert-Butylbenzene	14.21	119	21187	4.136	ug/l	92
95) Naphthalene	16.14	128	4946	2.784	ug/l #	94

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

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Quant Title : SW846 8260
QLast Update : Mon Apr 08 10:04:03 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.08 min Scan# 575

Delta R.T. 0.04 min

Lab File: VD061685.D

Acq: 9 Apr 2019 20:01

Instrument :

MSVOA_D

ClientSampleId :

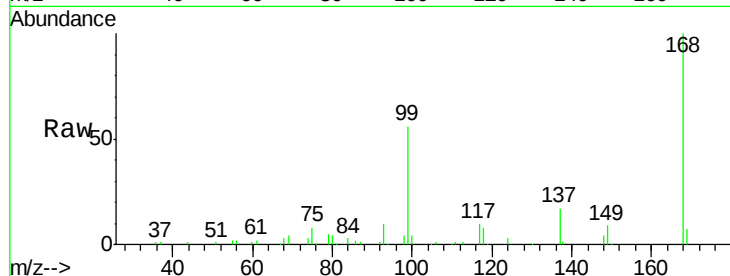
20190170-COMP-CS-2

Tgt Ion:168 Resp: 344756

Ion Ratio Lower Upper

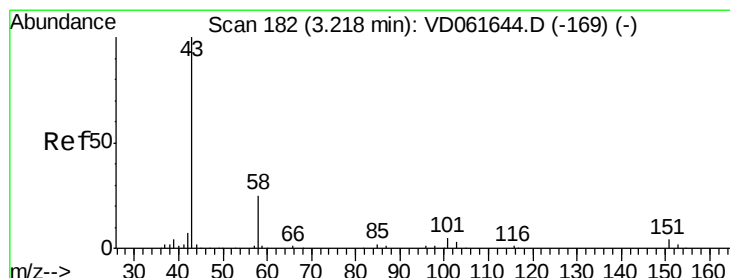
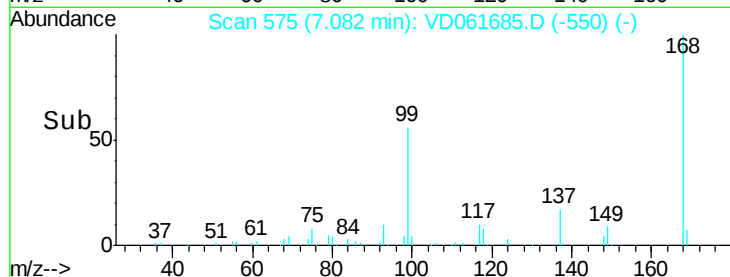
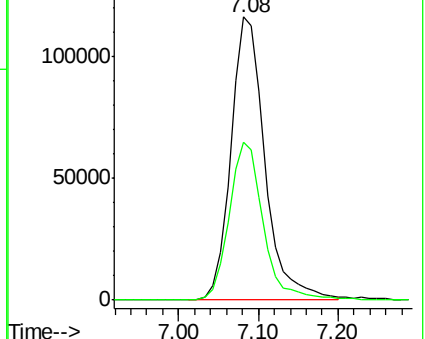
168 100

99 55.8 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: 105.635 ug/l

RT: 3.25 min Scan# 186

Delta R.T. 0.03 min

Lab File: VD061685.D

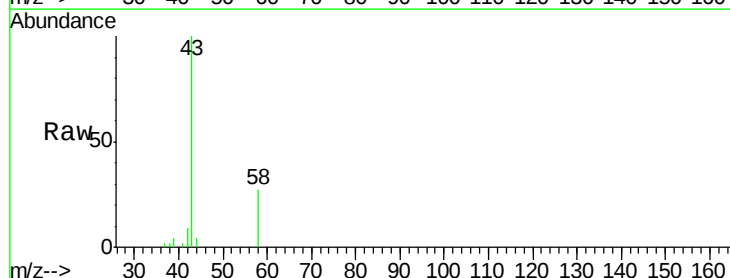
Acq: 9 Apr 2019 20:01

Tgt Ion: 43 Resp: 82520

Ion Ratio Lower Upper

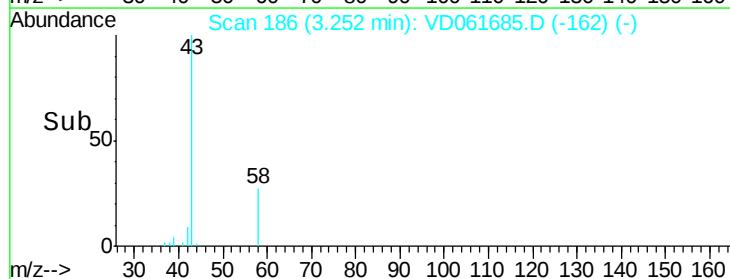
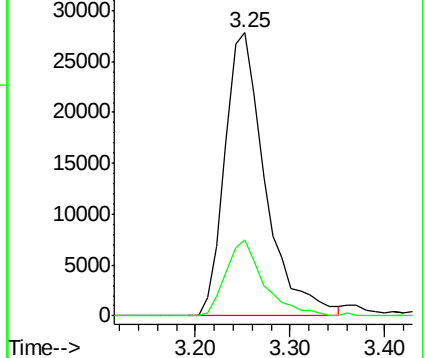
43 100

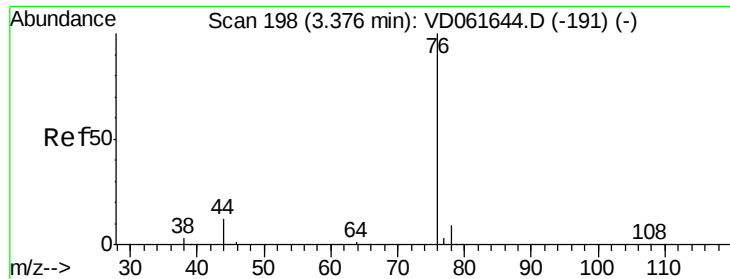
58 26.8 19.7 29.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 4.200 ug/l

RT: 3.42 min Scan# 203

Delta R.T. 0.04 min

Lab File: VD061685.D

Acq: 9 Apr 2019 20:01

Instrument :

MSVOA_D

ClientSampleId :

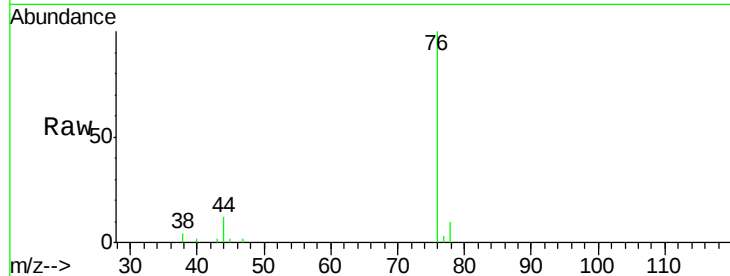
20190170-COMP-CS-2

Tgt Ion: 76 Resp: 49049

Ion Ratio Lower Upper

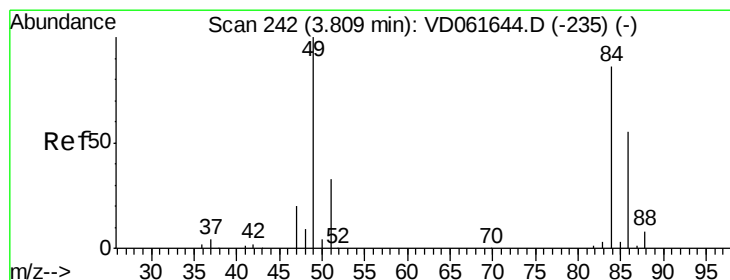
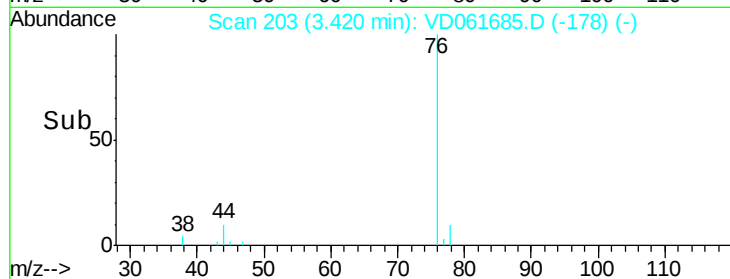
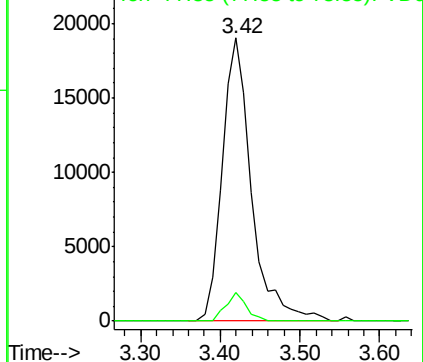
76 100

78 10.2 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: 5.076 ug/l

RT: 3.85 min Scan# 247

Delta R.T. 0.04 min

Lab File: VD061685.D

Acq: 9 Apr 2019 20:01

Tgt Ion: 84 Resp: 22502

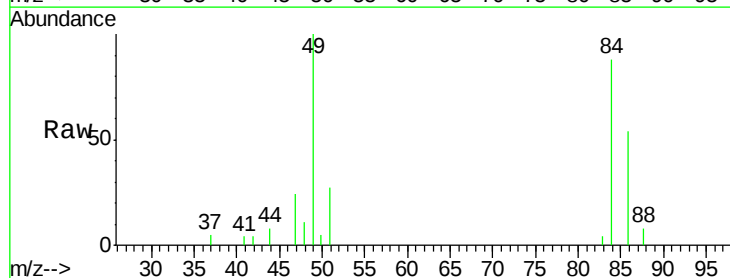
Ion Ratio Lower Upper

84 100

49 113.1 93.0 139.4

51 30.1 30.4 45.6#

86 60.9 51.0 76.4

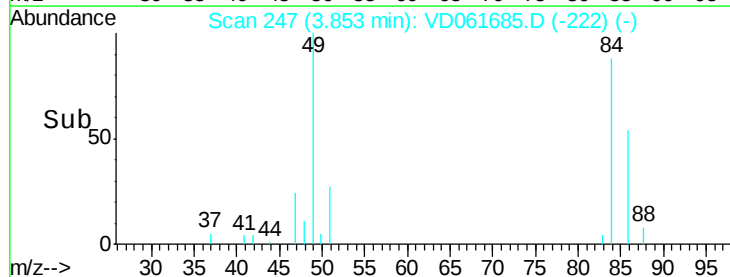
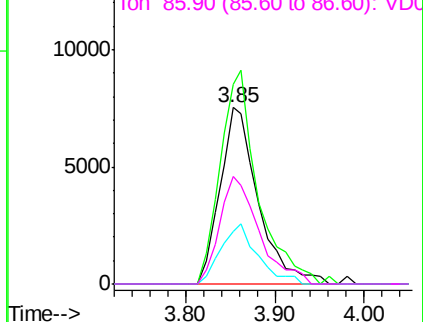


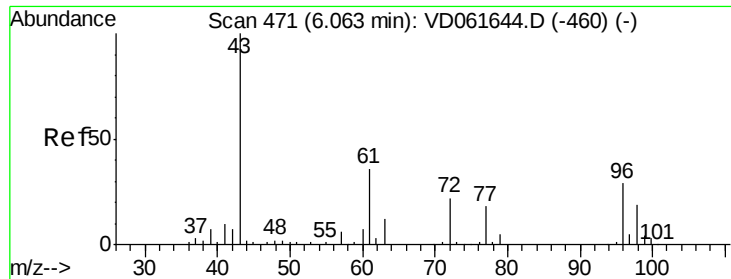
Abundance Ion 83.95 (83.65 to 84.65): VDC

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: 30.380 ug/l

RT: 6.11 min Scan# 476

Delta R.T. 0.04 min

Lab File: VD061685.D

Acq: 9 Apr 2019 20:01

Instrument :

MSVOA_D

ClientSampleId :

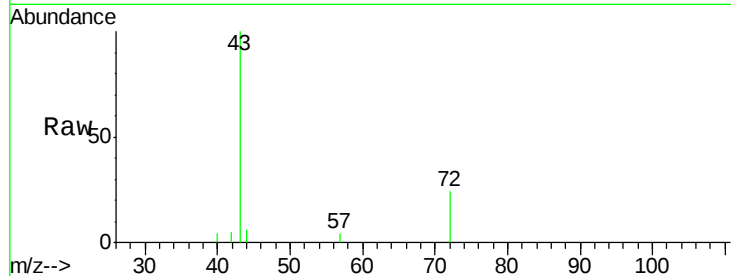
20190170-COMP-CS-2

Tgt Ion: 43 Resp: 27359

Ion Ratio Lower Upper

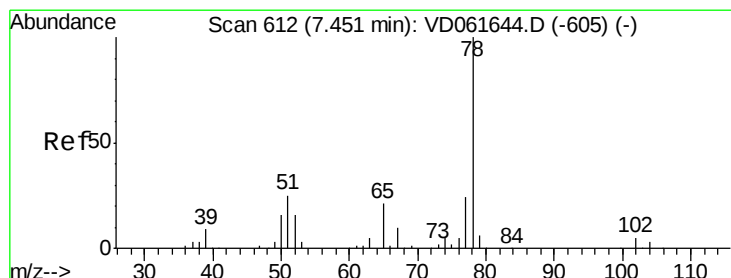
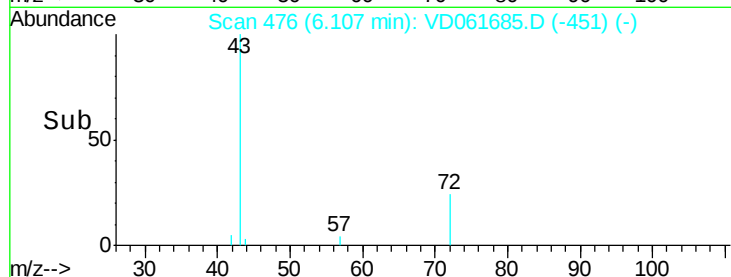
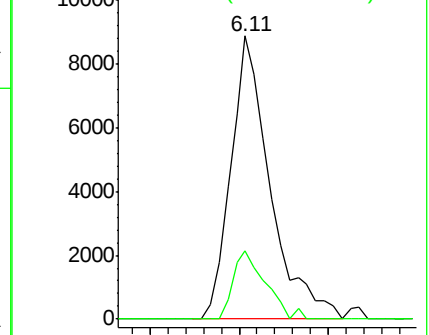
43 100

72 24.3 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: 67.006 ug/l

RT: 7.50 min Scan# 617

Delta R.T. 0.04 min

Lab File: VD061685.D

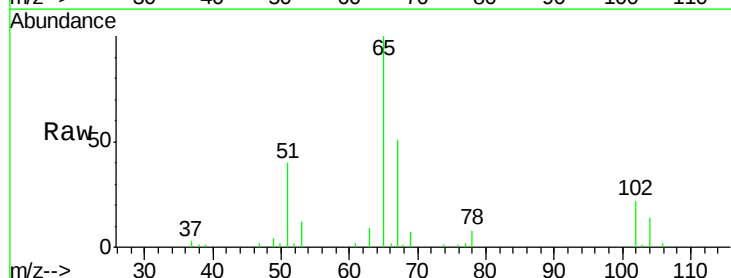
Acq: 9 Apr 2019 20:01

Tgt Ion: 65 Resp: 175103

Ion Ratio Lower Upper

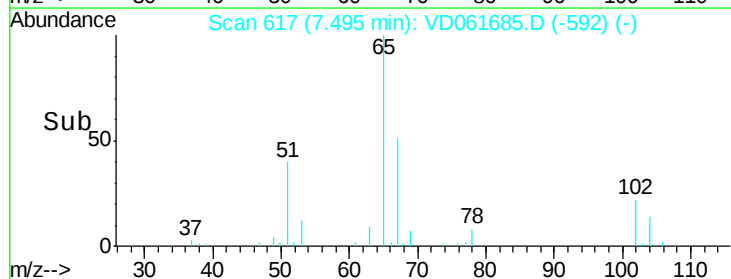
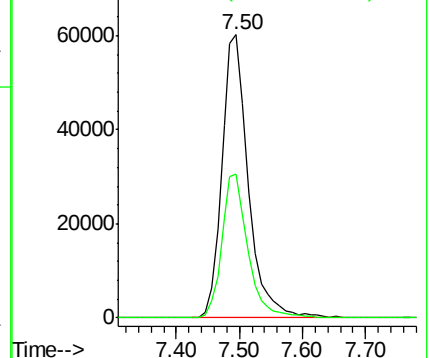
65 100

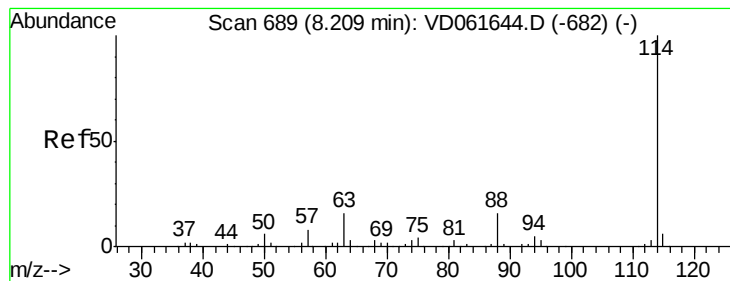
67 50.7 0.0 99.4



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: VD061685.D

Acq: 9 Apr 2019 20:01

Instrument :

MSVOA_D

ClientSampleId :

20190170-COMP-CS-2

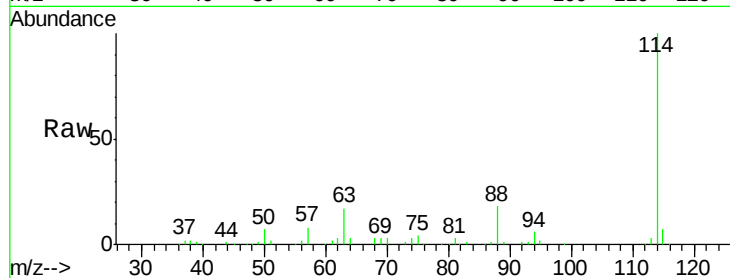
Tgt Ion:114 Resp: 546469

Ion Ratio Lower Upper

114 100

63 16.7 0.0 31.2

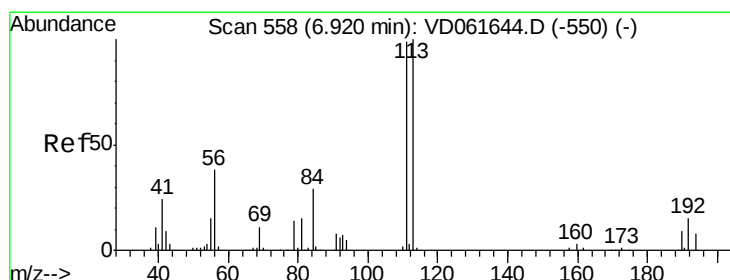
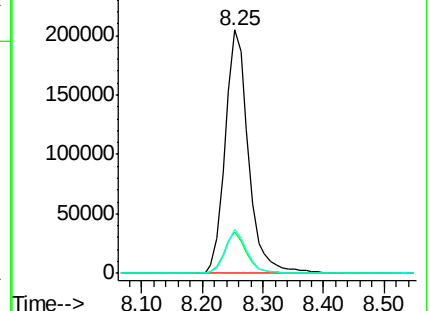
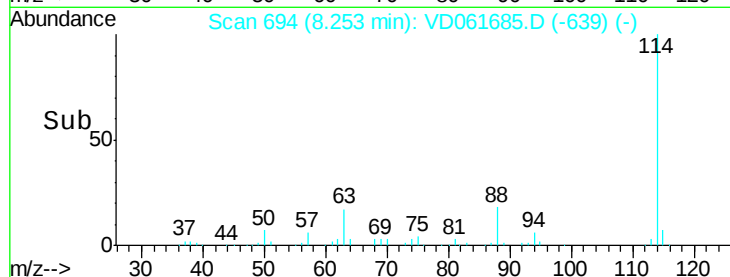
88 18.2 0.0 31.8



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: 69.352 ug/l

RT: 6.96 min Scan# 563

Delta R.T. 0.04 min

Lab File: VD061685.D

Acq: 9 Apr 2019 20:01

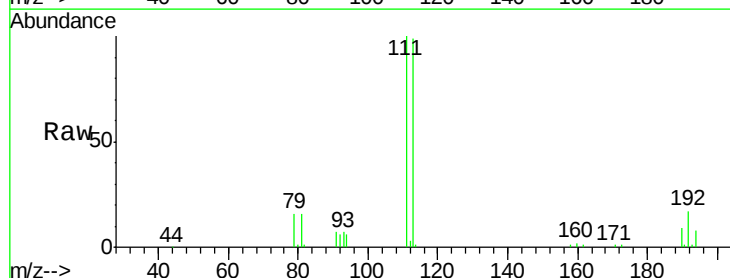
Tgt Ion:113 Resp: 262553

Ion Ratio Lower Upper

113 100

111 100.6 79.3 118.9

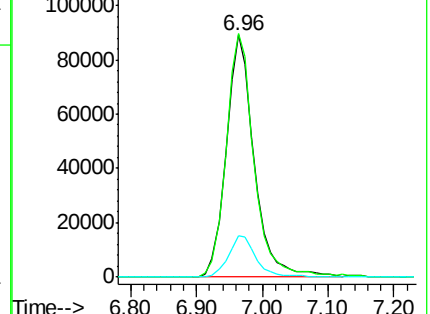
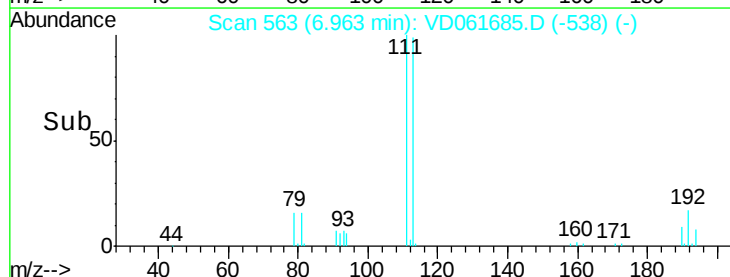
192 17.2 12.3 18.5

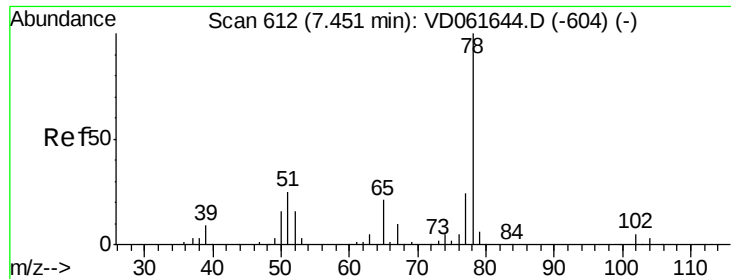


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#40

Benzene

Concen: 1.135 ug/l

RT: 7.50 min Scan# 617

Delta R.T. 0.04 min

Lab File: VD061685.D

Acq: 9 Apr 2019 20:01

Instrument :

MSVOA_D

ClientSampleId :

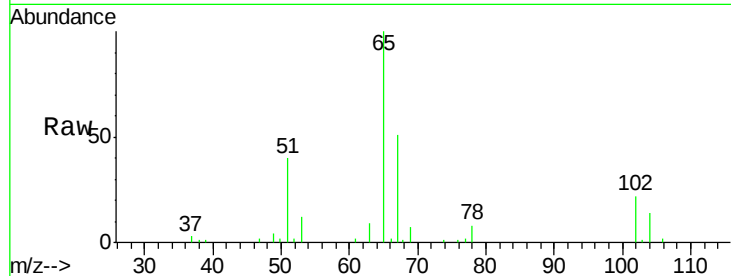
20190170-COMP-CS-2

Tgt Ion: 78 Resp: 13099

Ion Ratio Lower Upper

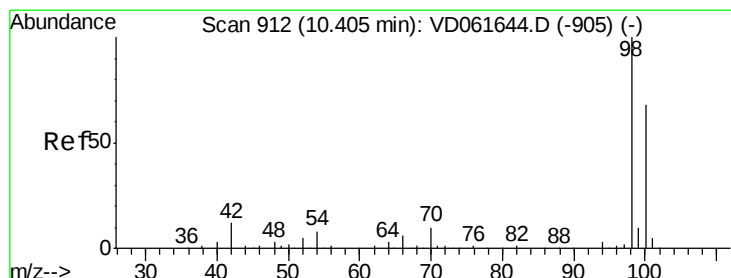
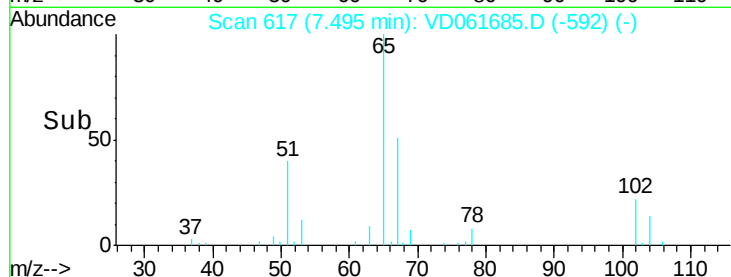
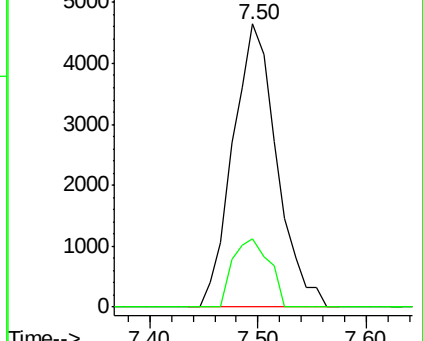
78 100

77 24.1 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: 51.878 ug/l

RT: 10.44 min Scan# 916

Delta R.T. 0.03 min

Lab File: VD061685.D

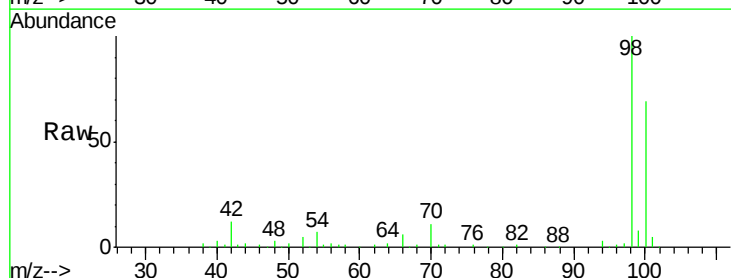
Acq: 9 Apr 2019 20:01

Tgt Ion: 98 Resp: 493433

Ion Ratio Lower Upper

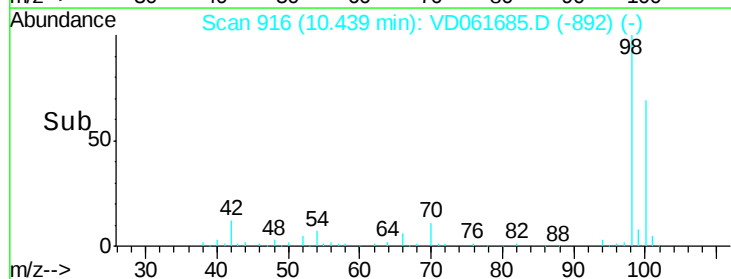
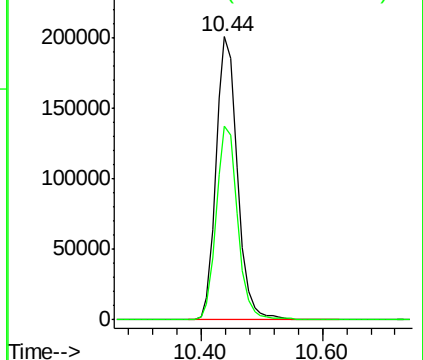
98 100

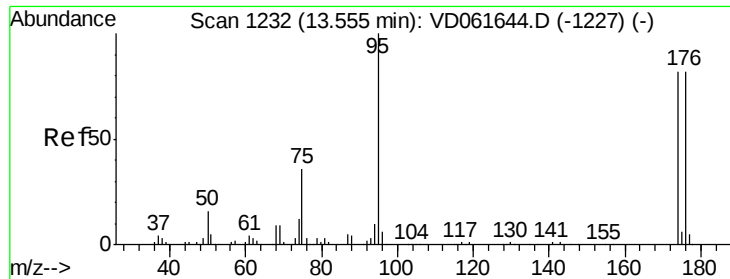
100 68.6 55.4 83.0



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC

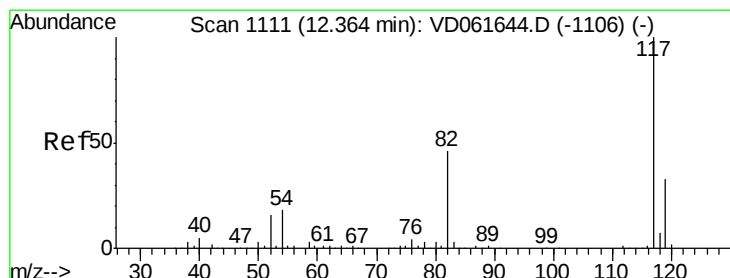
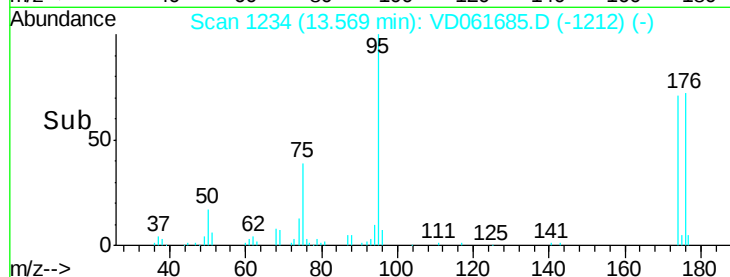
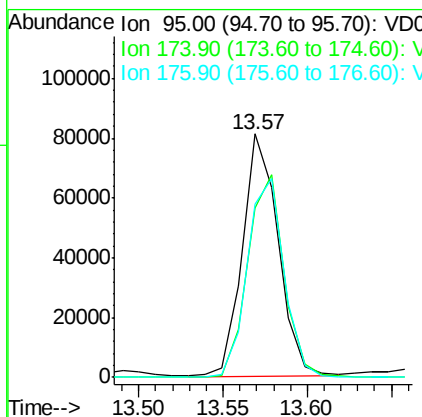
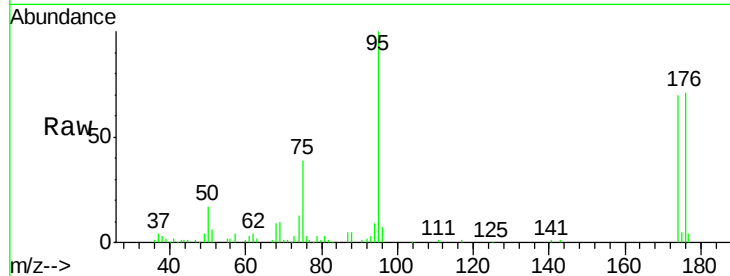




#62
4-Bromofluorobenzene
Concen: 33.161 ug/l
RT: 13.57 min Scan# 1234
Delta R.T. 0.02 min
Lab File: VD061685.D
Acq: 9 Apr 2019 20:01

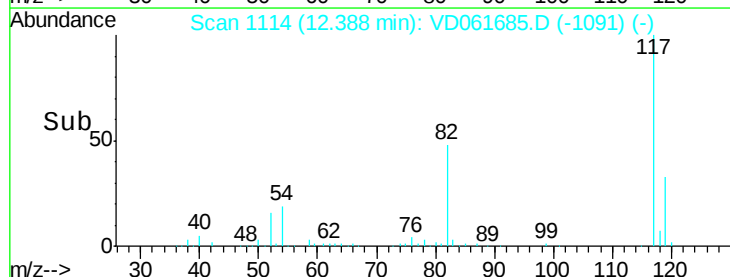
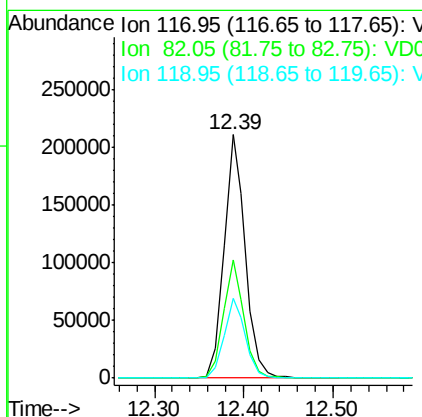
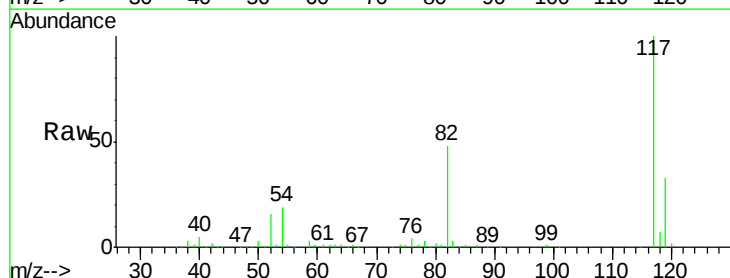
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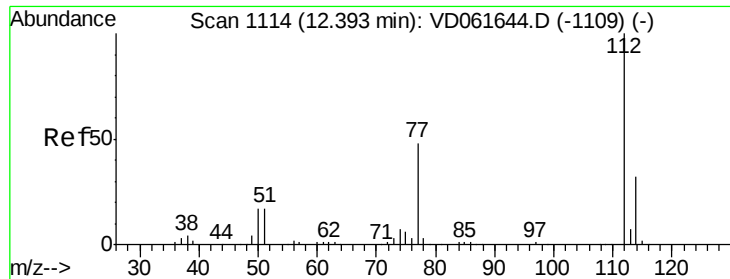
Tgt Ion: 95 Resp: 119104
Ion Ratio Lower Upper
95 100
174 69.7 0.0 164.6
176 71.0 0.0 165.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.02 min
Lab File: VD061685.D
Acq: 9 Apr 2019 20:01

Tgt Ion: 117 Resp: 352437
Ion Ratio Lower Upper
117 100
82 48.5 36.8 55.2
119 32.9 26.1 39.1





#65

Chlorobenzene

Concen: 1.723 ug/l

RT: 12.42 min Scan# 1117

Delta R.T. 0.02 min

Lab File: VD061685.D

Acq: 9 Apr 2019 20:01

Instrument :

MSVOA_D

ClientSampleId :

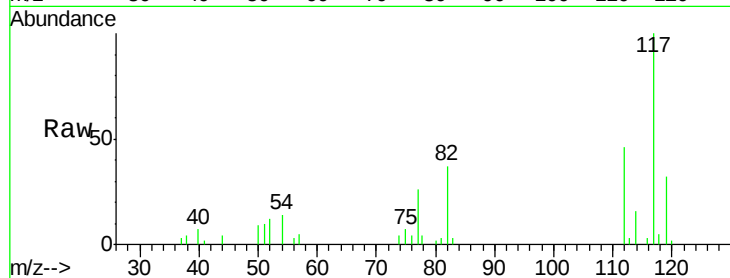
20190170-COMP-CS-2

Tgt Ion:112 Resp: 12043

Ion Ratio Lower Upper

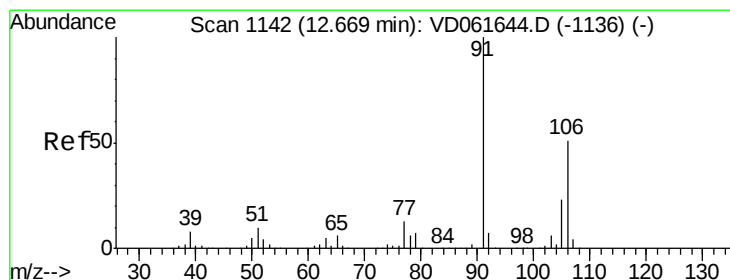
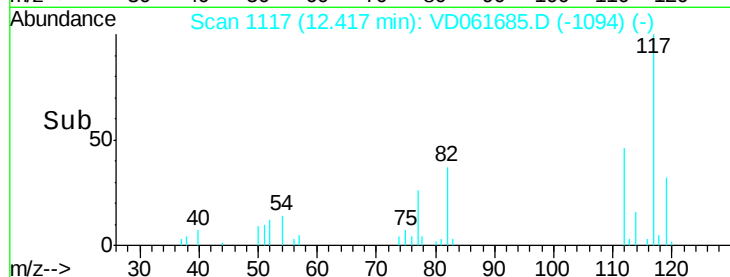
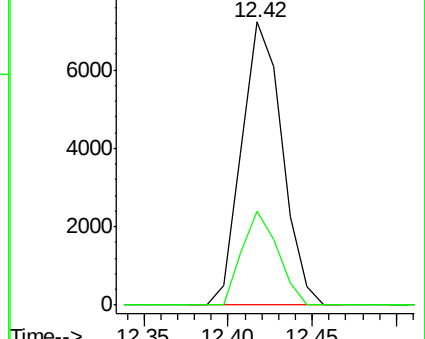
112 100

114 33.4 25.6 38.4



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#68

m/p-Xylenes

Concen: 1.720 ug/l

RT: 12.68 min Scan# 1144

Delta R.T. 0.01 min

Lab File: VD061685.D

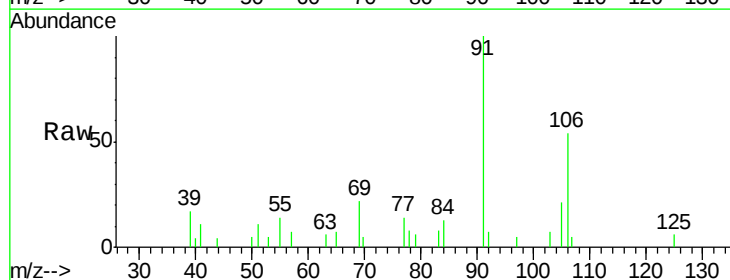
Acq: 9 Apr 2019 20:01

Tgt Ion:106 Resp: 7059

Ion Ratio Lower Upper

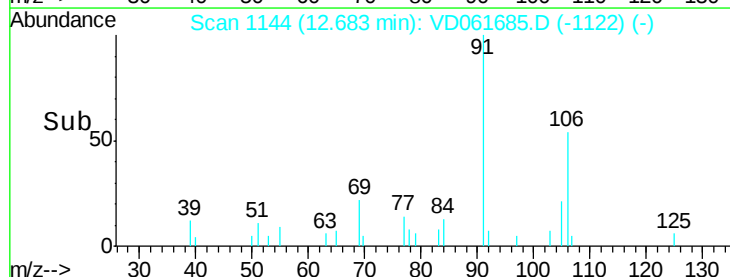
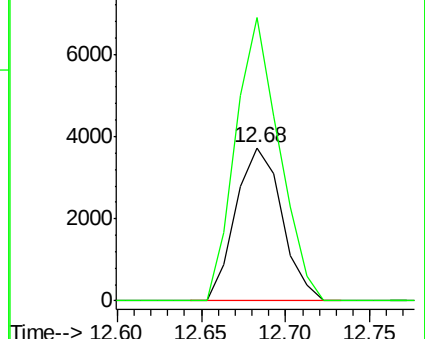
106 100

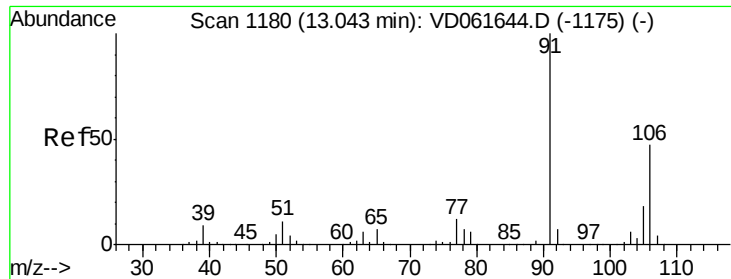
91 184.7 156.7 235.1



Abundance Ion 106.05 (105.75 to 106.75): V

Ion 91.00 (90.70 to 91.70): V

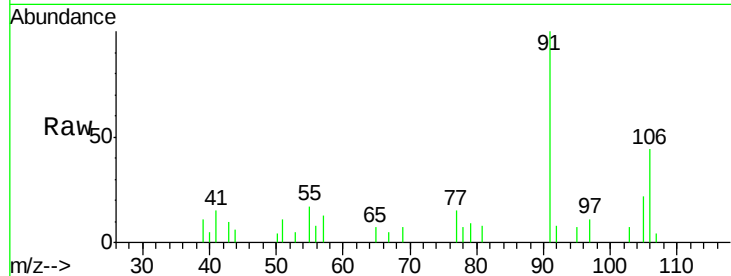




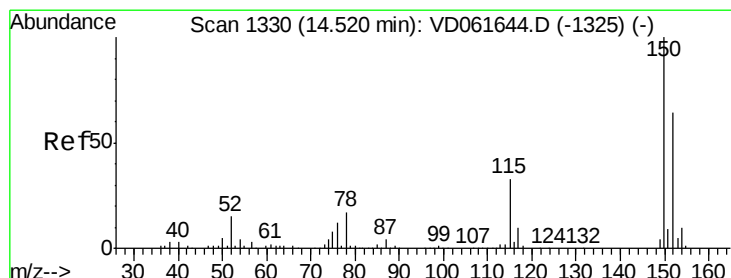
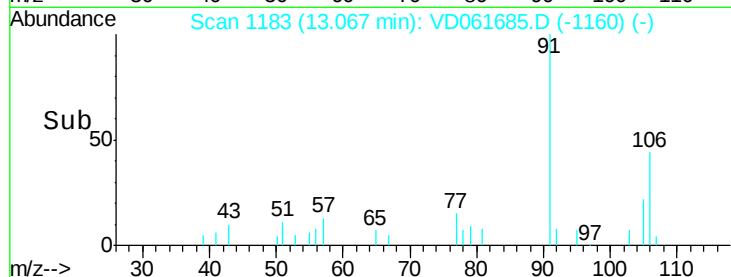
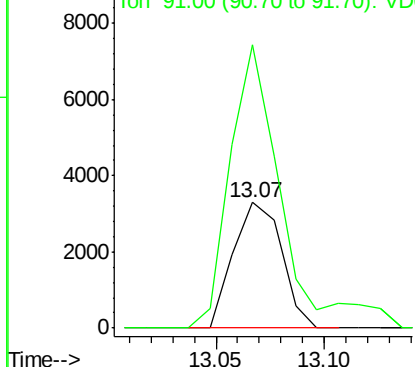
#69
o-Xylene
Concen: 1.288 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.02 min
Lab File: VD061685.D
Acq: 9 Apr 2019 20:01

Instrument :
MSVOA_D
ClientSampleId :
20190170-COMP-CS-2

Tgt Ion:106 Resp: 5103
Ion Ratio Lower Upper
106 100
91 225.2 107.3 321.9

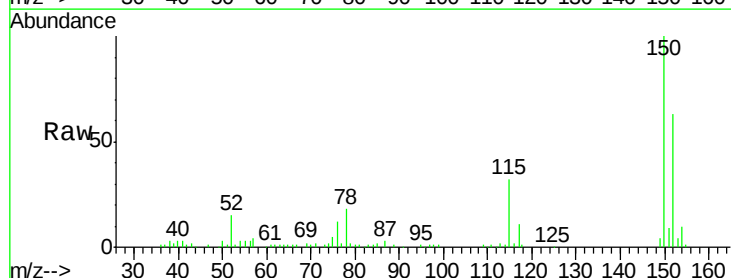


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

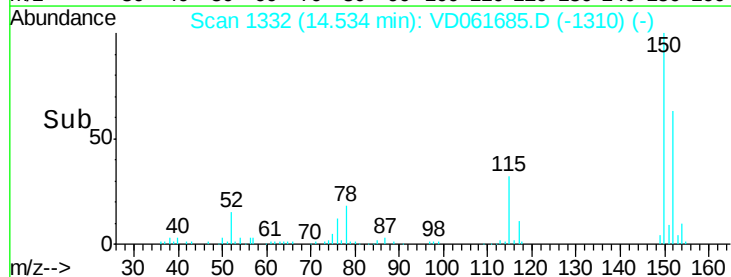
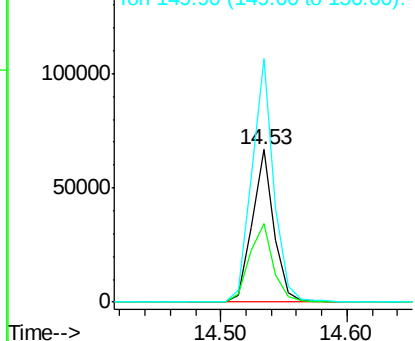


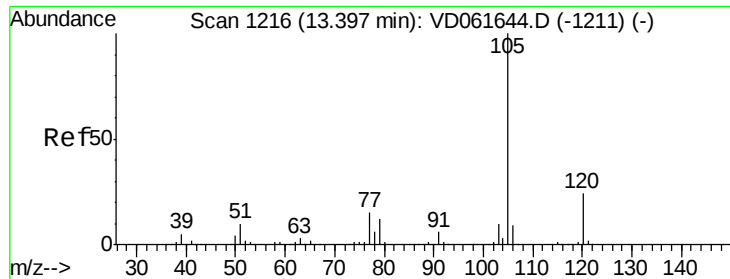
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1332
Delta R.T. 0.01 min
Lab File: VD061685.D
Acq: 9 Apr 2019 20:01

Tgt Ion:152 Resp: 80340
Ion Ratio Lower Upper
152 100
115 51.5 26.4 79.2
150 159.8 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: 10.699 ug/l

RT: 13.42 min Scan# 1219

Delta R.T. 0.02 min

Lab File: VD061685.D

Acq: 9 Apr 2019 20:01

Instrument :

MSVOA_D

ClientSampleId :

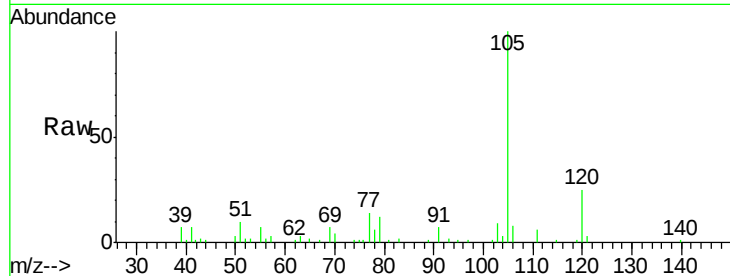
20190170-COMP-CS-2

Tgt Ion: 105 Resp: 57272

Ion Ratio Lower Upper

105 100

120 24.6 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.42

40000

30000

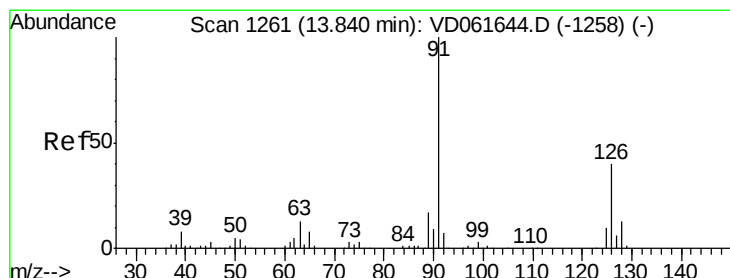
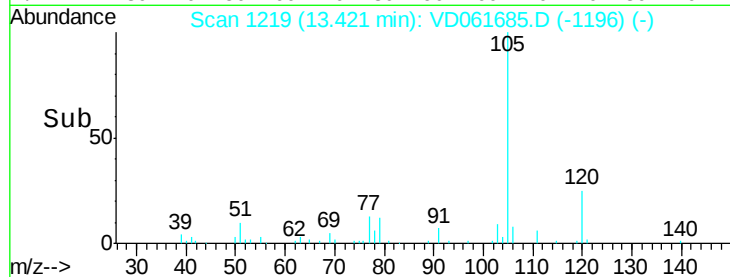
20000

10000

0

13.35 13.40 13.45 13.50

Time-->



#79

2-Chlorotoluene

Concen: 8.736 ug/l

RT: 13.85 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VD061685.D

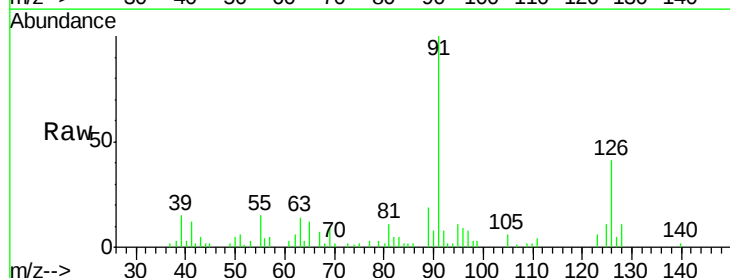
Acq: 9 Apr 2019 20:01

Tgt Ion: 91 Resp: 31990

Ion Ratio Lower Upper

91 100

126 40.5 20.0 59.9



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V

13.85

25000

20000

15000

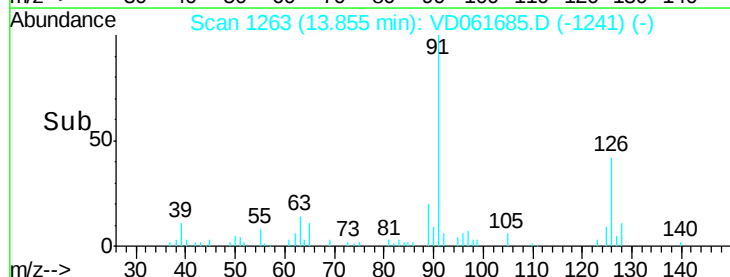
10000

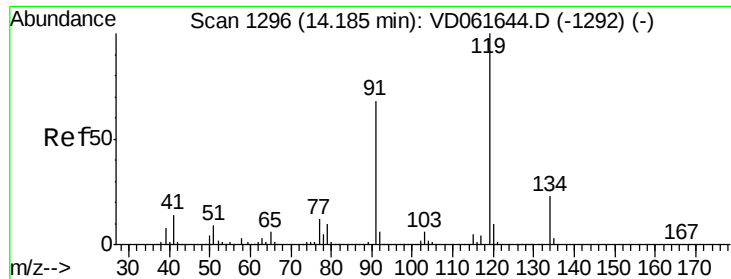
5000

0

13.80 13.85 13.90

Time-->

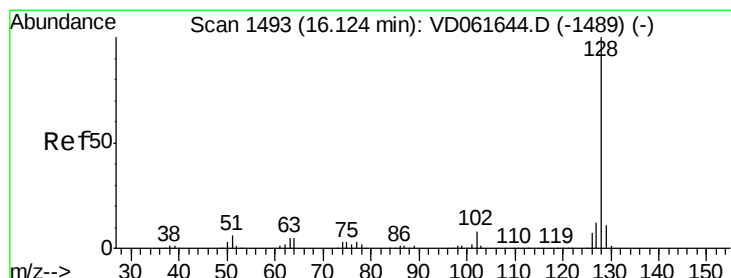
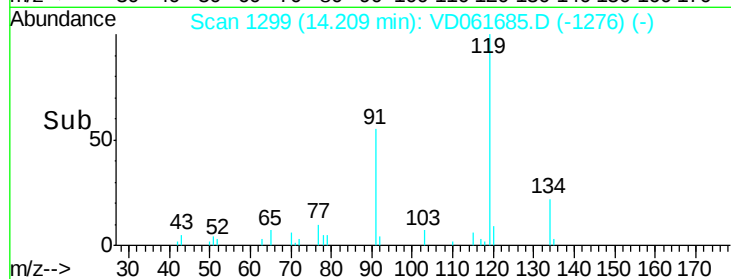
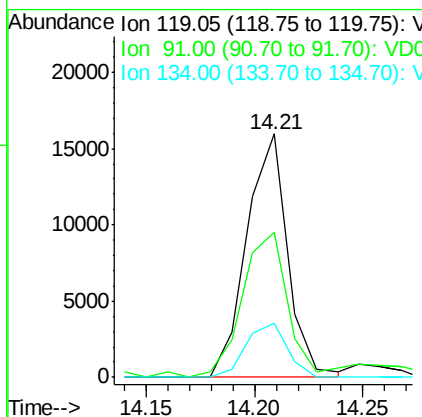
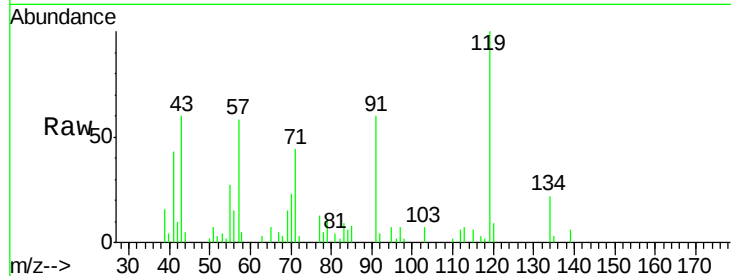




#83
 tert-Butylbenzene
 Concen: 4.136 ug/l
 RT: 14.21 min Scan# 1299
 Delta R.T. 0.02 min
 Lab File: VD061685.D
 Acq: 9 Apr 2019 20:01

Instrument :
 MSVOA_D
 ClientSampleId :
 20190170-COMP-CS-2

Tgt Ion:	119	Resp:	21187
Ion	Ratio	Lower	Upper
119	100		
91	59.8	33.9	101.6
134	22.4	11.6	34.8



#95
 Naphthalene
 Concen: 2.784 ug/l
 RT: 16.14 min Scan# 1495
 Delta R.T. 0.01 min
 Lab File: VD061685.D
 Acq: 9 Apr 2019 20:01

Tgt Ion:	128	Resp:	4946
Ion	Ratio	Lower	Upper
128	100		
127	14.1	9.4	14.2
129	13.3	8.8	13.2#

