

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD062018\
 Data File : VD058221.D
 Acq On : 20 Jun 2018 20:32
 Operator : VA/AP
 Sample : J3523-01
 Misc : 4.44g/5ml/MSVOA D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 AREA1(S)

Manual Integrations
 APPROVED

apatel
 6/21/2018 11:30:31 AM

Quant Time: Jun 21 04:35:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 20 05:52:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	453761	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.69	114	627365	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.70	117	281060	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.91	152	65182	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.02	65	263766	57.55	ug/l	0.00
Spiked Amount 50.000			Recovery	=	115.10%	
35) Dibromofluoromethane	5.65	113	493	0.10	ug/l	0.10
Spiked Amount 50.000			Recovery	=	0.20%	
50) Toluene-d8	8.71	98	583514	47.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.48%	
62) 4-Bromofluorobenzene	11.94	95	109531	21.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	43.40%	
Target Compounds						
						Qvalue
16) Acetone	2.61	43	149458	238.44	ug/l	97
17) Carbon Disulfide	2.75	76	36683	6.92	ug/l	97
20) Methylene Chloride	3.06	84	12063	2.88	ug/l	87
25) 2-Butanone	4.84	43	91211	66.77	ug/l	95
31) Cyclohexane	5.59	56	87443	11.49	ug/l #	81
39) Methylcyclohexane	7.29	83	428416	70.87	ug/l	94
40) Benzene	6.02	78	128962	8.72	ug/l	99
52) Toluene	8.81	92	503465	59.81	ug/l	98
67) Ethyl Benzene	10.86	91	4964710	534.90	ug/l	99
68) m/p-Xylenes	11.03	106	5454518	1762.25	ug/l	99
69) o-Xylene	11.42	106	1923958	650.81	ug/l	90
73) Isopropylbenzene	11.78	105	259313	66.51	ug/l	99
78) n-propylbenzene	12.15	91	469060	93.16	ug/l	97
80) 1,3,5-Trimethylbenzene	12.32	105	843150	277.26	ug/l	96
84) 1,2,4-Trimethylbenzene	12.63	105	1736227	525.24	ug/l	97
85) sec-Butylbenzene	12.76	105	169921	41.46	ug/l	99
86) p-Isopropyltoluene	12.89	119	126441	38.07	ug/l	95
89) n-Butylbenzene	13.20	91	125716m	36.02	ug/l	
95) Naphthalene	14.52	128	373310	171.59	ug/l	100

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

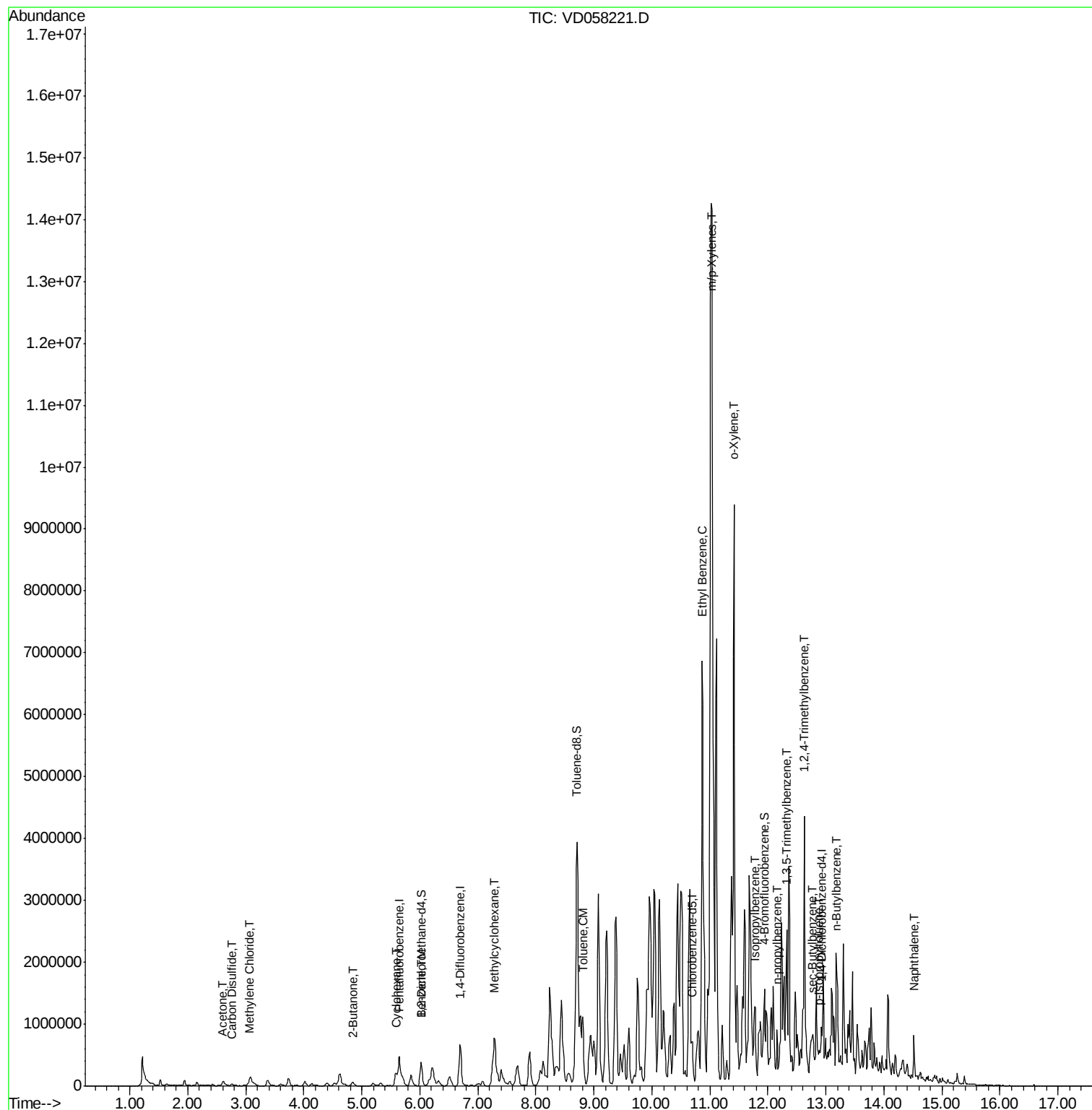
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD062018\
Data File : VD058221.D
Acq On : 20 Jun 2018 20:32
Operator : VA/AP
Sample : J3523-01
Misc : 4.44q/5ml/MSVOA D/SOIL
ALS Vial : 19 Sample Multiplier: 1

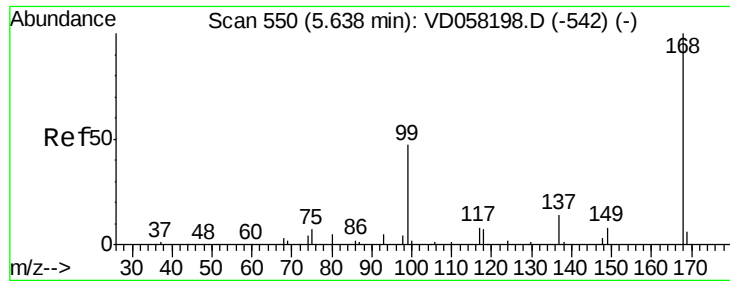
Instrument :
MSVOA_D
ClientSampleId :
AREA1(S)

Manual Integrations
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Quant Time: Jun 21 04:35:05 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061918S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 20 05:52:56 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.01 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

AREA1(S)

Tot Ion:168 Resp: 453761

Ion Ratio Lower Upper

168 100

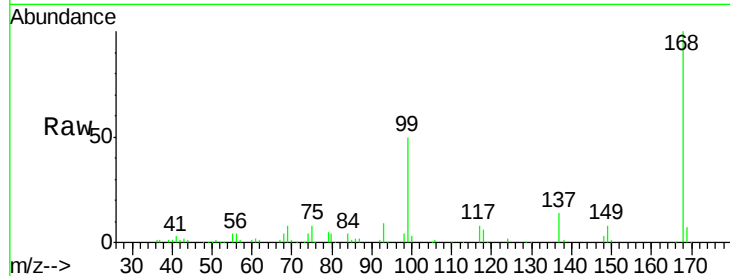
99 50.3 41.1 61.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.65

150000

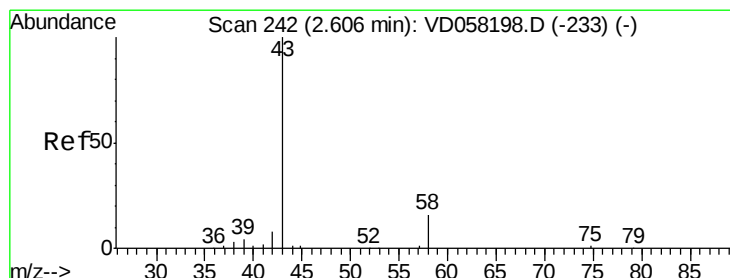
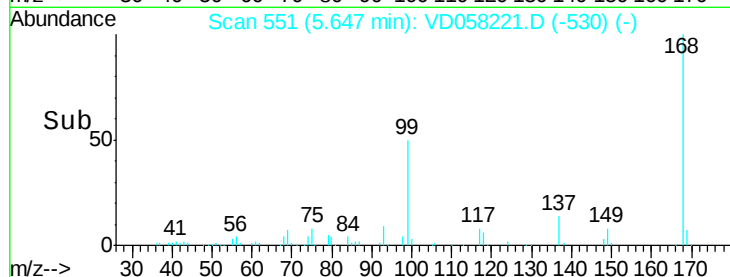
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#16

Acetone

Concen: 238.44 ug/l

RT: 2.61 min Scan# 242

Delta R.T. 0.00 min

Lab File: VD058221.D

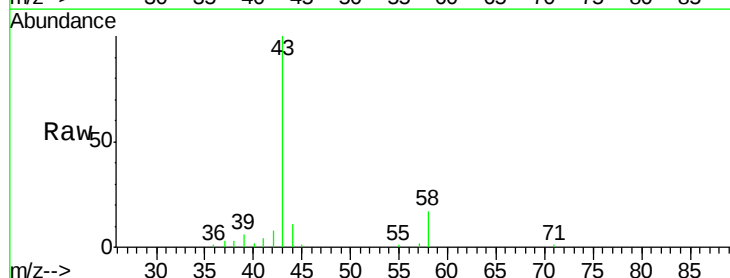
Acq: 20 Jun 2018 20:32

Tgt Ion: 43 Resp: 149458

Ion Ratio Lower Upper

43 100

58 17.3 12.7 19.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.61

50000

40000

30000

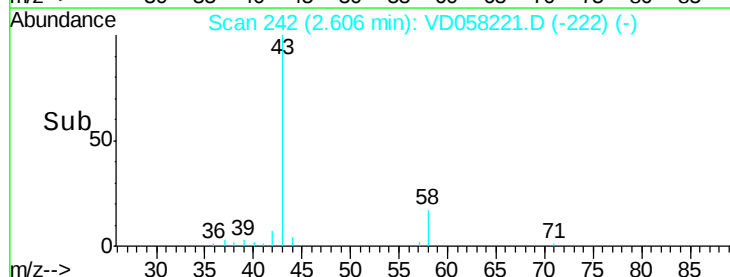
20000

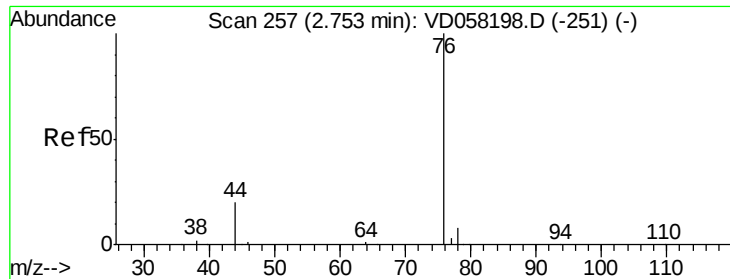
10000

0

Time-->

2.50 2.60 2.70 2.80





#17

Carbon Disulfide

Concen: 6.92 ug/l

RT: 2.75 min Scan# 257

Delta R.T. -0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

AREA1(S)

Tot Ion: 76 Resp: 36683

Ion Ratio Lower Upper

76 100

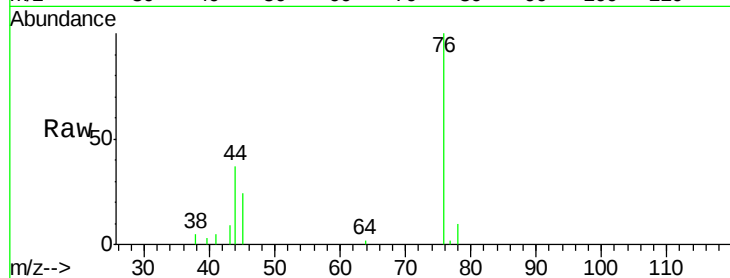
78 9.7 6.8 10.2

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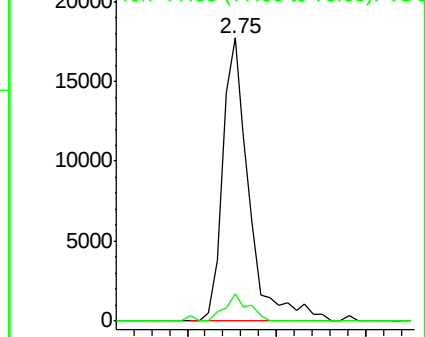
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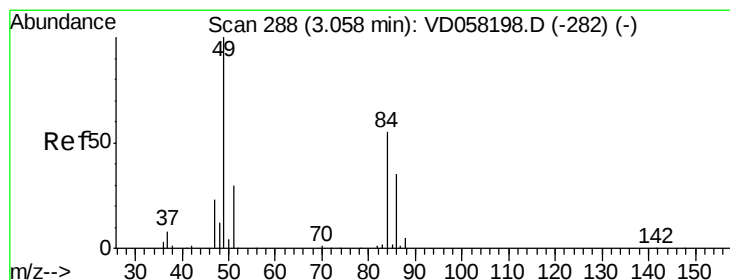
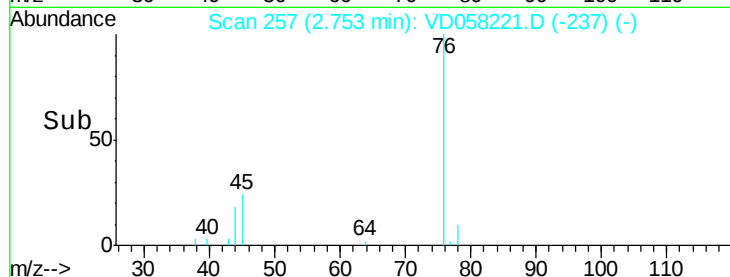


Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



Time-->



#20

Methylene Chloride

Concen: 2.88 ug/l

RT: 3.06 min Scan# 288

Delta R.T. 0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Tgt Ion: 84 Resp: 12063

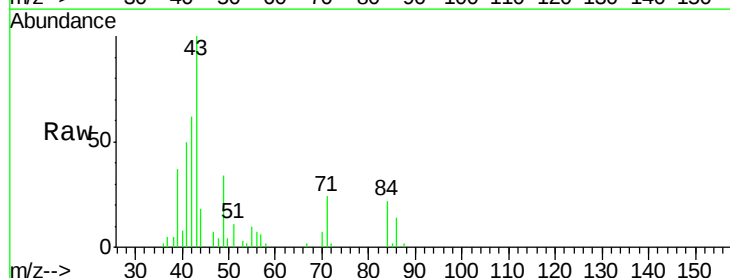
Ion Ratio Lower Upper

84 100

49 154.8 145.0 217.6

51 50.9 42.9 64.3

86 65.3 50.1 75.1

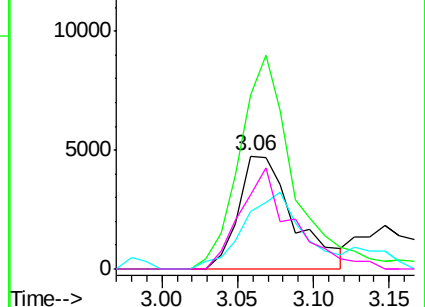


Abundance Ion 83.95 (83.65 to 84.65): VDC

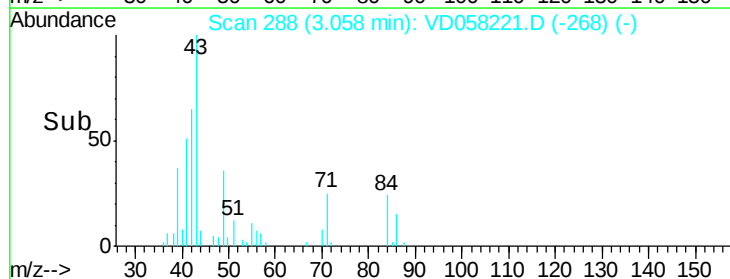
Ion 48.90 (48.60 to 49.60): VDC

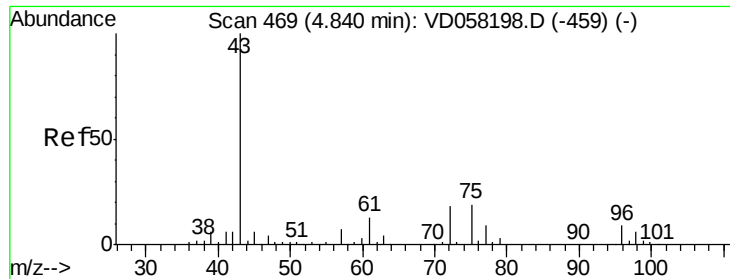
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



Time-->





#25

2-Butanone

Concen: 66.77 ug/l

RT: 4.84 min Scan# 469

Delta R.T. -0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

AREA1(S)

Tot Ion: 43 Resp: 91211

Ion Ratio Lower Upper

43 100

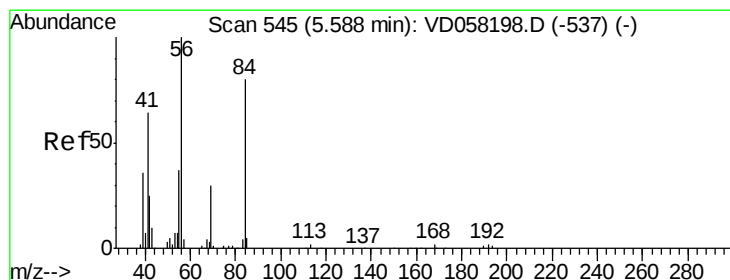
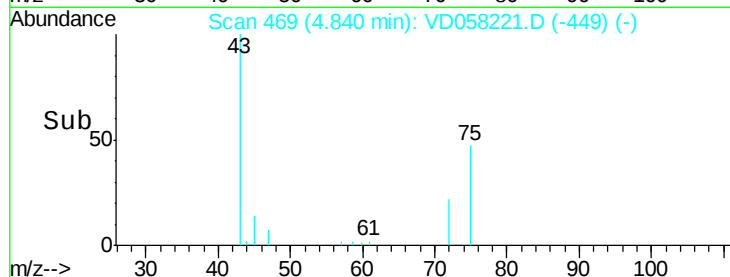
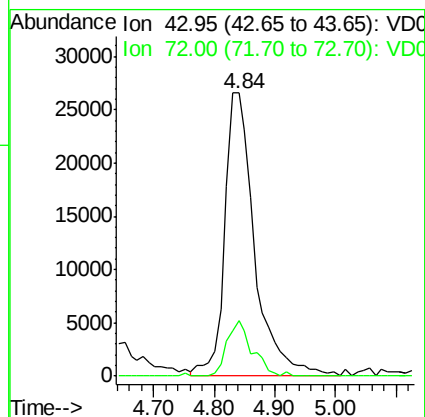
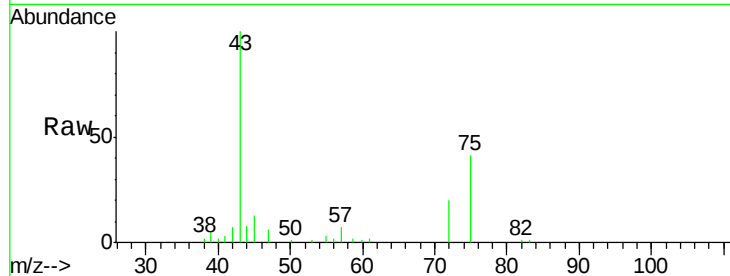
72 19.7 14.1 21.1

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#31

Cyclohexane

Concen: 11.49 ug/l

RT: 5.59 min Scan# 545

Delta R.T. 0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

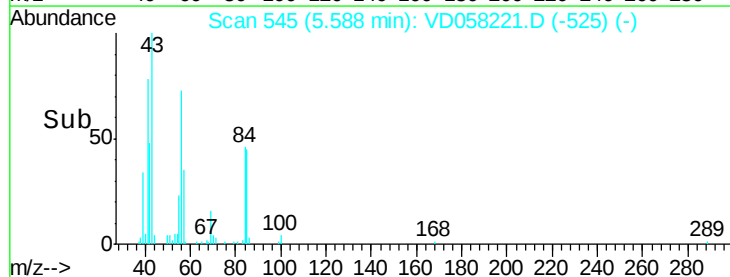
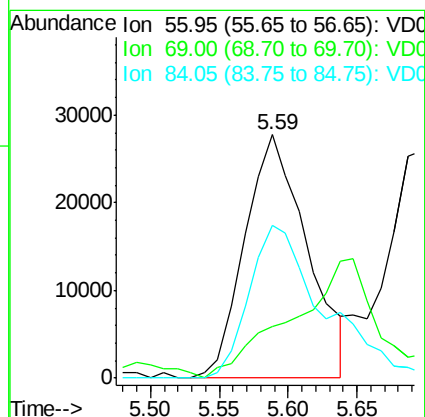
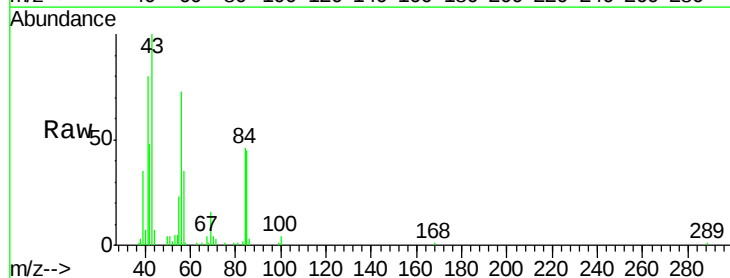
Tgt Ion: 56 Resp: 87443

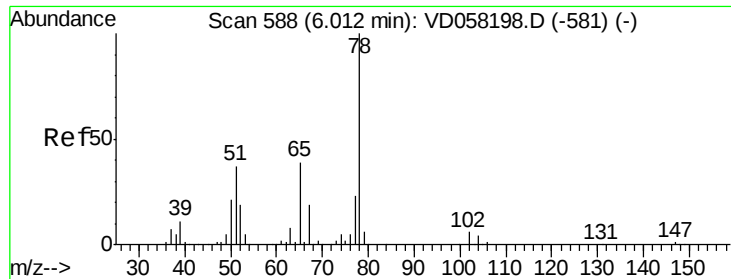
Ion Ratio Lower Upper

56 100

69 21.3 23.6 35.4#

84 62.9 65.2 97.8#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.02 min Scan# 589

Delta R.T. 0.01 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

AREA1(S)

Tot Ion: 65 Resp: 263766

Ion Ratio Lower Upper

65 100

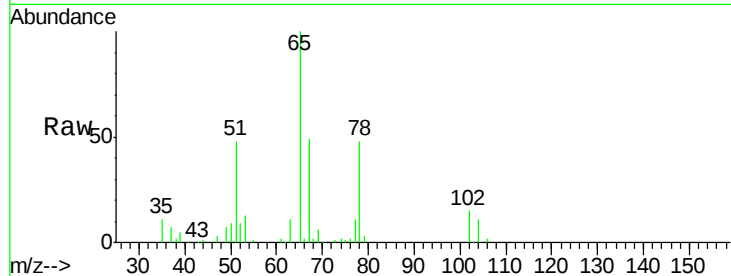
67 49.3 0.0 97.8

Manual Integrations

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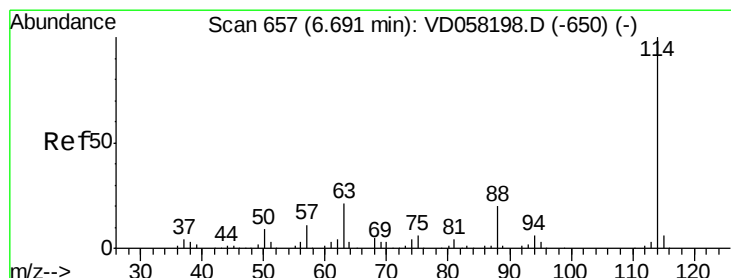
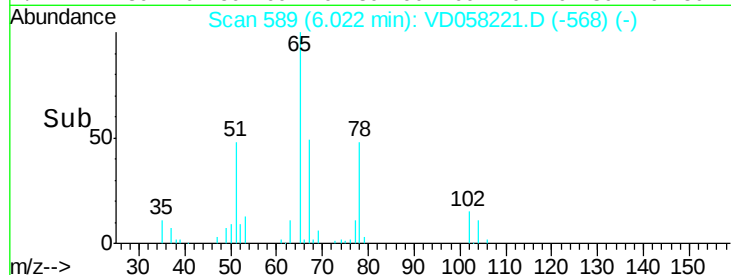
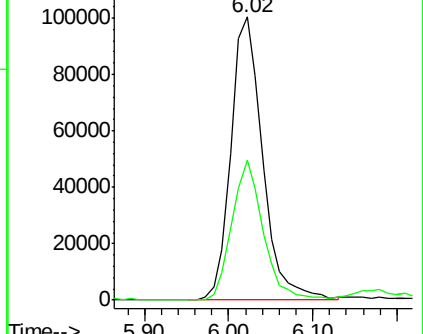
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Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.69 min Scan# 657

Delta R.T. -0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

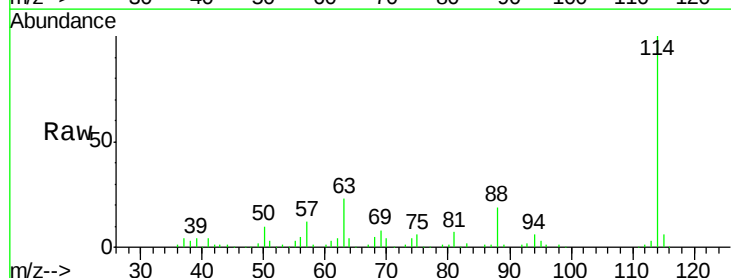
Tgt Ion: 114 Resp: 627365

Ion Ratio Lower Upper

114 100

63 22.9 0.0 42.6

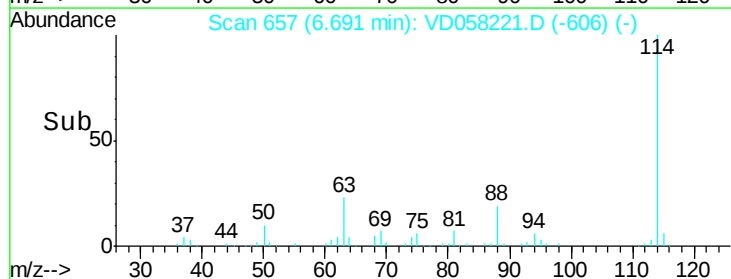
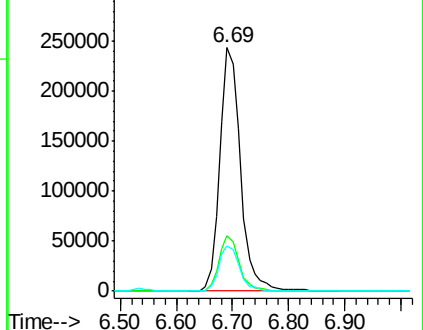
88 18.6 0.0 40.6

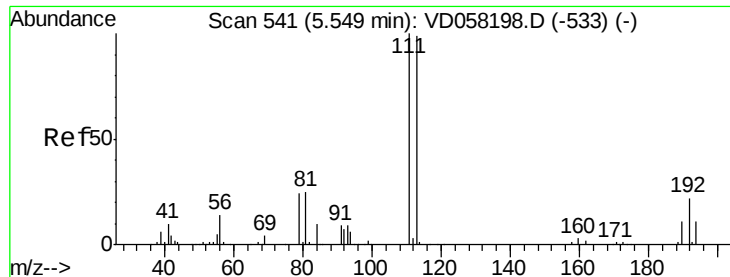


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.00 ug/l

RT: 5.65 min Scan# 551

Delta R.T. 0.10 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

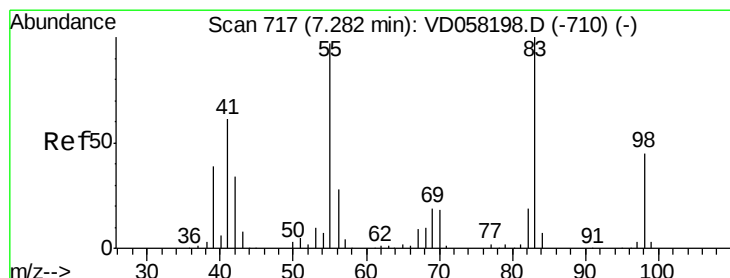
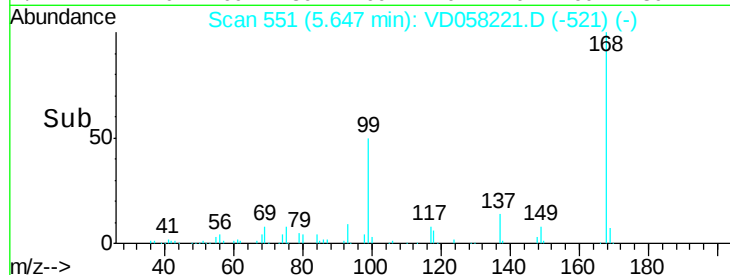
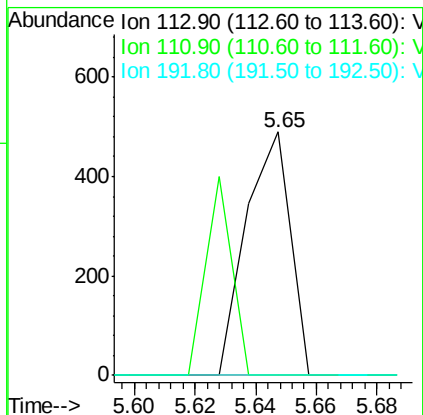
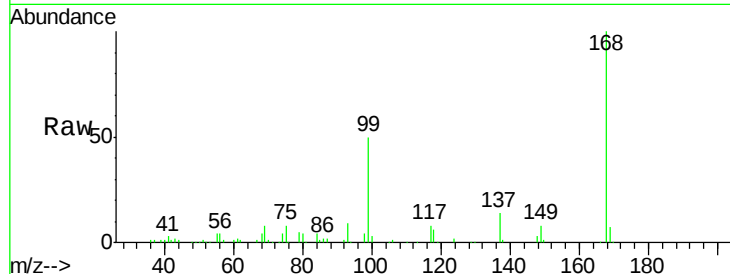
ClientSampleId :

AREA1(S)

Tot Ion:	113	Resp:	493
Ion	Ratio	Lower	Upper
113	100		
111	0.0	80.6	121.0#
192	0.0	17.8	26.6#

Manual Integrations
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#39

Methylcyclohexane

Concen: 70.87 ug/l

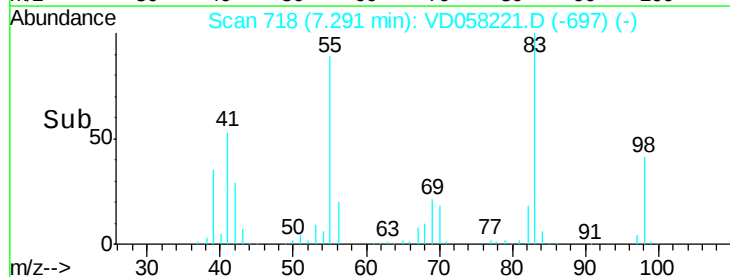
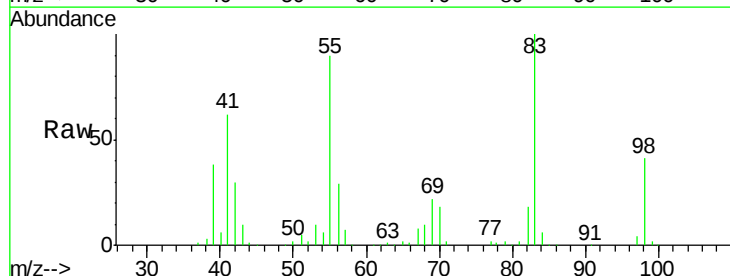
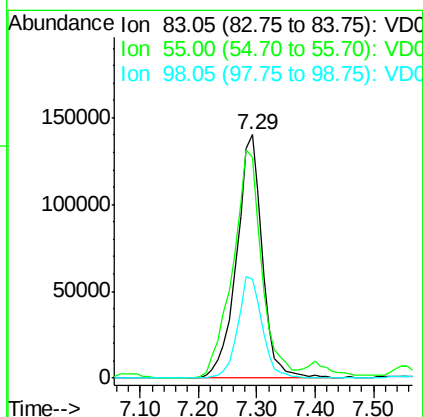
RT: 7.29 min Scan# 718

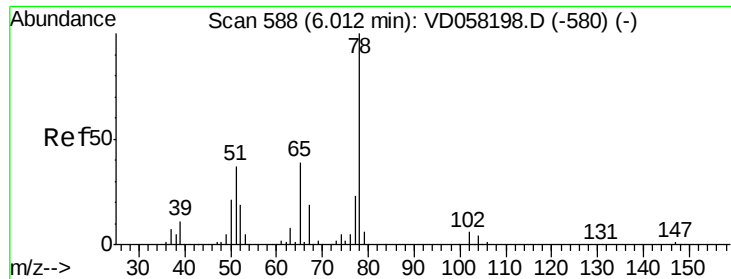
Delta R.T. 0.01 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Tgt Ion:	83	Resp:	428416
Ion	Ratio	Lower	Upper
83	100		
55	90.4	77.4	116.2
98	40.7	35.9	53.9





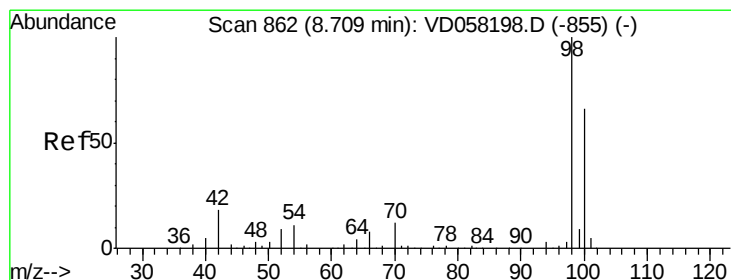
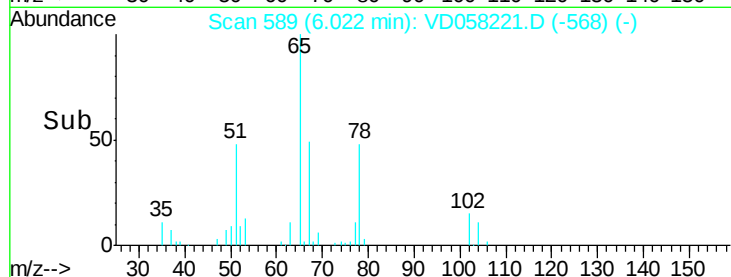
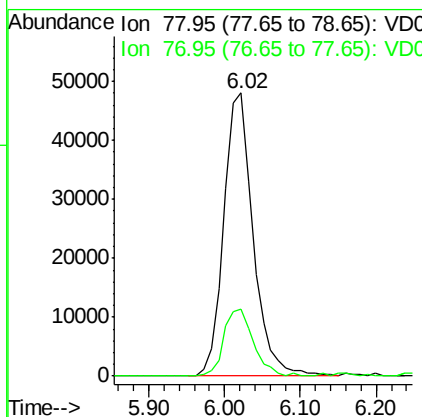
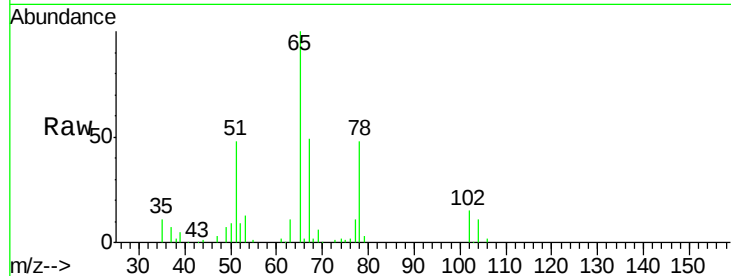
#40
Benzene
Concen: 8.72 ug/l
RT: 6.02 min Scan# 589
Delta R.T. 0.01 min
Lab File: VD058221.D
Acq: 20 Jun 2018 20:32

Instrument :
MSVOA_D
ClientSampled :
AREA1(S)

Tot Ion: 78 Resp: 128962
Ion Ratio Lower Upper
78 100
77 23.8 18.5 27.7

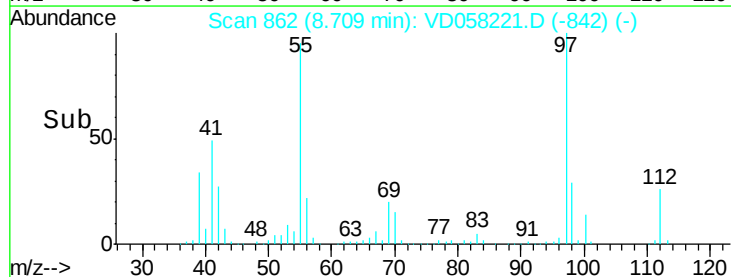
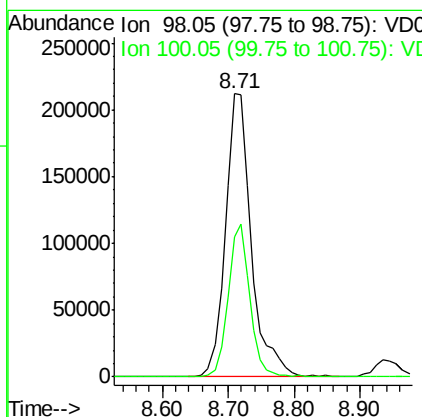
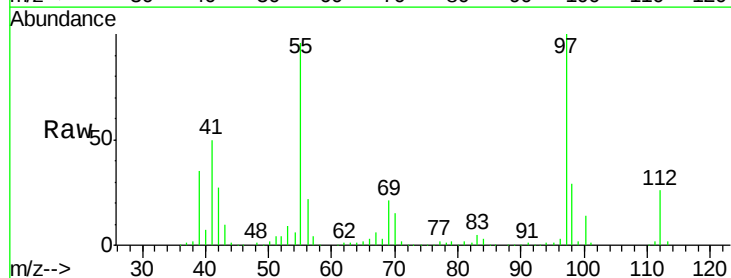
Manual Integrations
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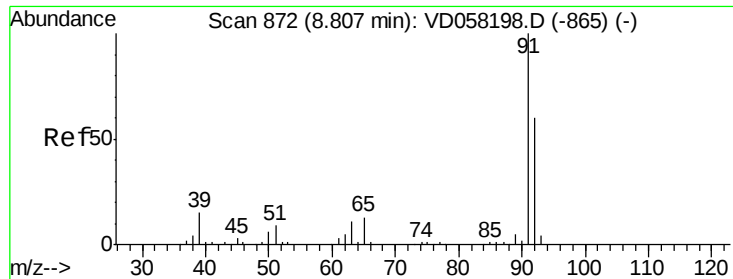
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#50
Toluene-d8
Concen: N.D. ug/l
RT: 8.71 min Scan# 862
Delta R.T. 0.00 min
Lab File: VD058221.D
Acq: 20 Jun 2018 20:32

Tgt Ion: 98 Resp: 583514
Ion Ratio Lower Upper
98 100
100 49.5 53.6 80.4#





#52

Toluene

Concen: 59.81 ug/l

RT: 8.81 min Scan# 872

Delta R.T. -0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

AREA1(S)

Tot Ion: 92 Resp: 503465

Ion Ratio Lower Upper

92 100

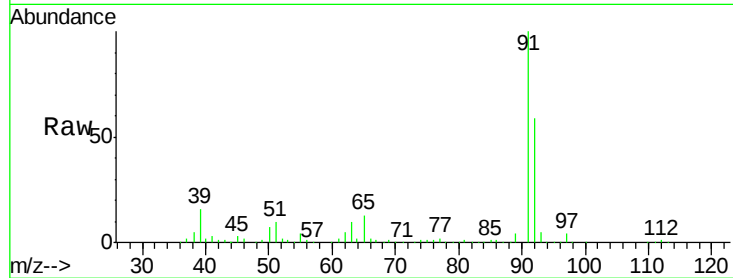
91 168.6 133.2 199.8

Manual Integrations

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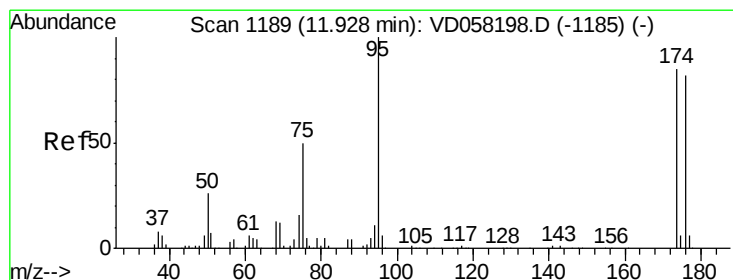
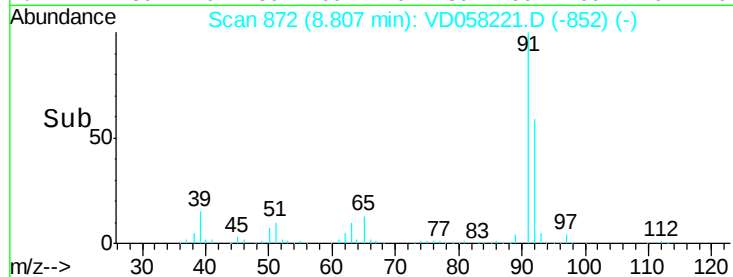
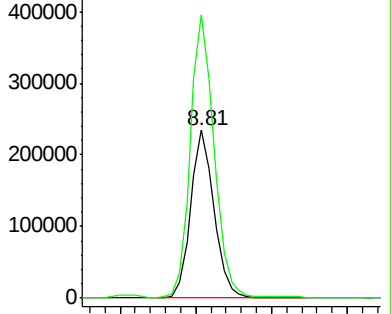
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6/21/2018 11:30:31 AM



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 11.94 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

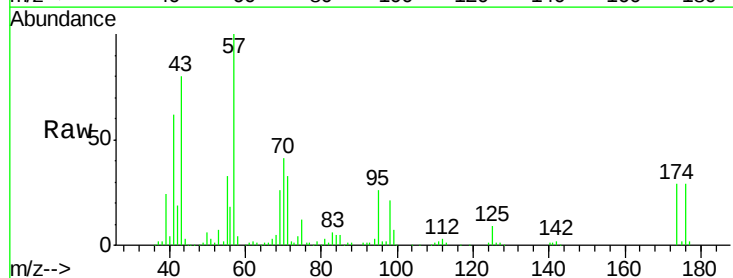
Tgt Ion: 95 Resp: 109531

Ion Ratio Lower Upper

95 100

174 111.2 0.0 170.2

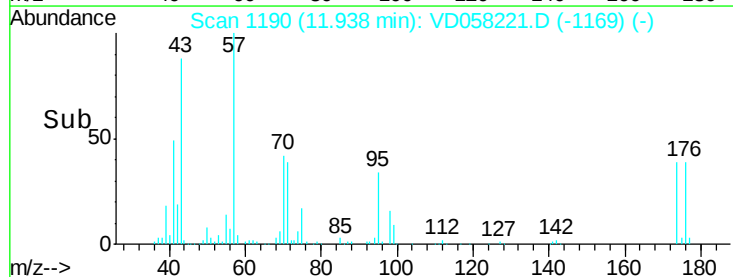
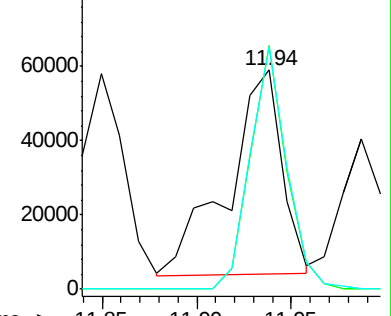
176 110.8 0.0 164.6

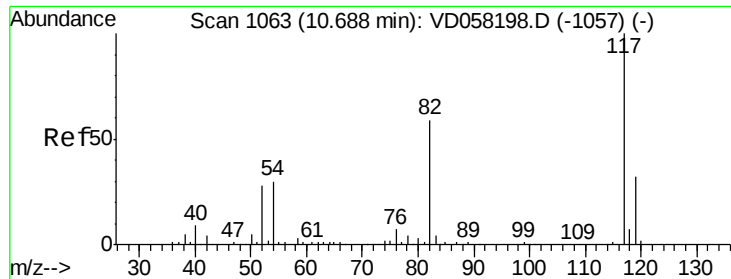


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V





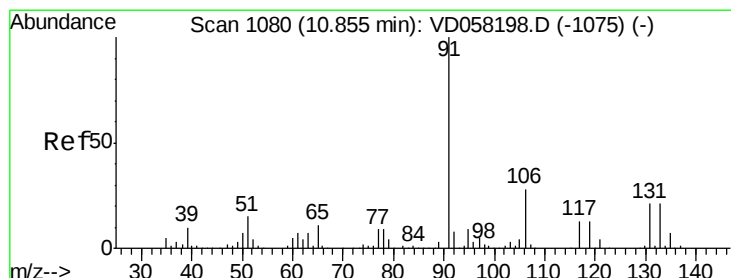
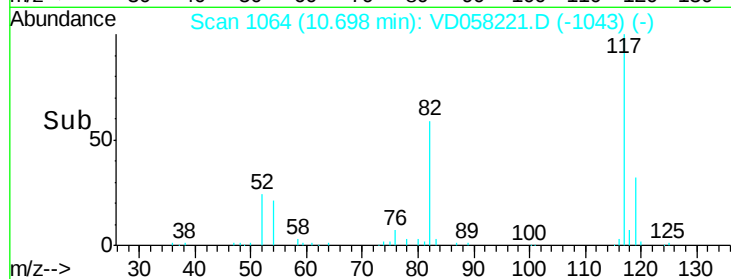
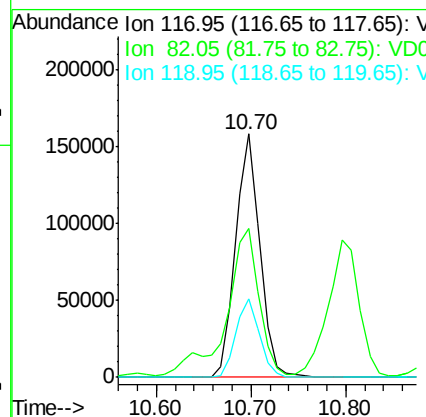
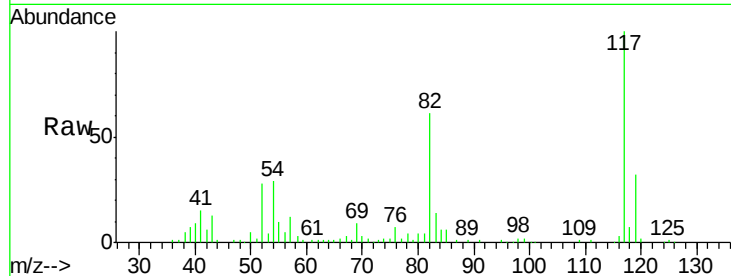
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.70 min Scan# 1064
Delta R.T. 0.01 min
Lab File: VD058221.D
Acq: 20 Jun 2018 20:32

Instrument :
MSVOA_D
ClientSampleId :
AREA1(S)

Tot Ion	Ratio	Lower	Upper
117	100		
82	61.0	47.0	70.6
119	32.2	25.3	37.9

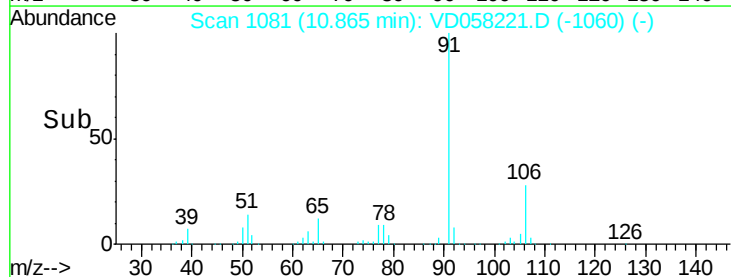
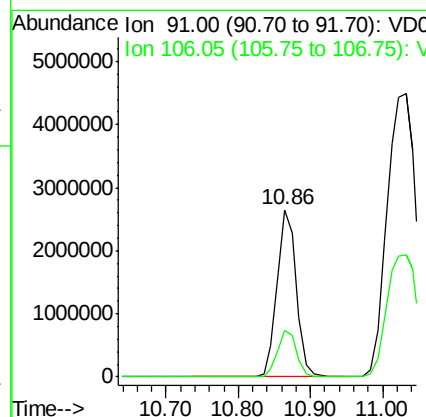
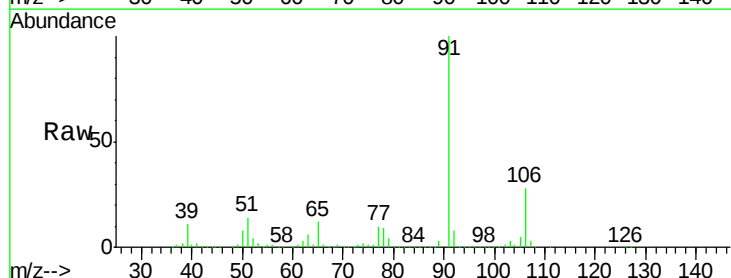
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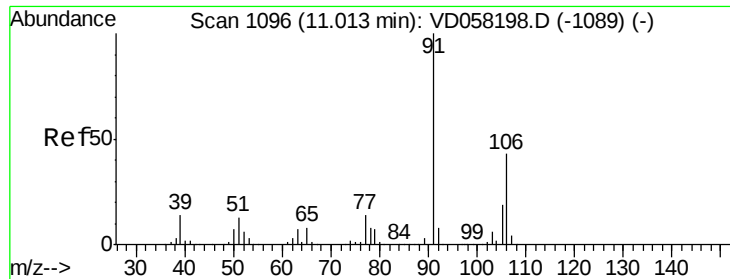
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#67
Ethyl Benzene
Concen: 534.90 ug/l
RT: 10.86 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VD058221.D
Acq: 20 Jun 2018 20:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	27.9	22.0	33.0





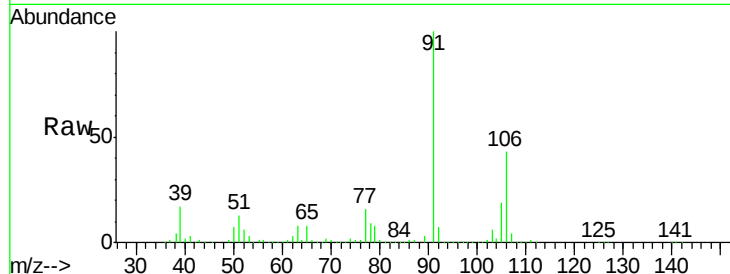
#68
m/p-Xvlenes
Concen: 1762.25 ug/l
RT: 11.03 min Scan# 1098
Delta R.T. 0.02 min
Lab File: VD058221.D
Acq: 20 Jun 2018 20:32

Instrument :
MSVOA_D
ClientSampleId :
AREA1(S)

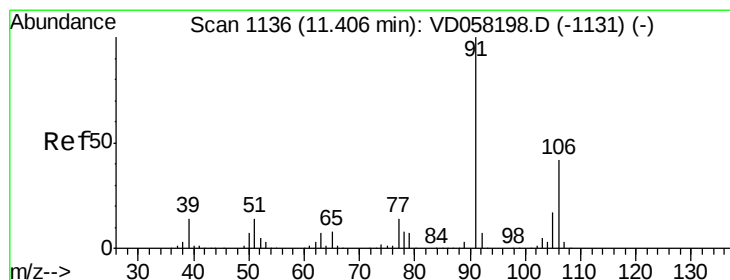
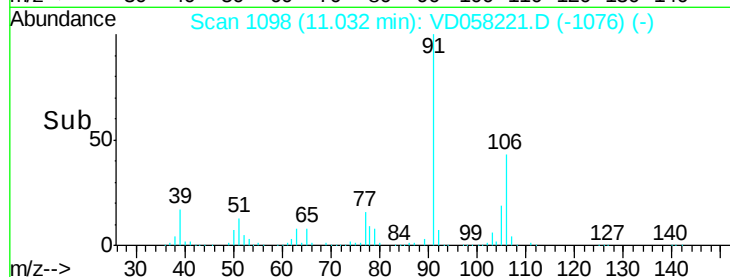
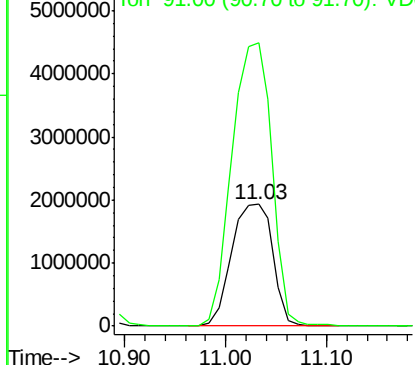
Tot Ion:106 Resp: 5454518
Ion Ratio Lower Upper
106 100
91 232.5 185.0 277.6

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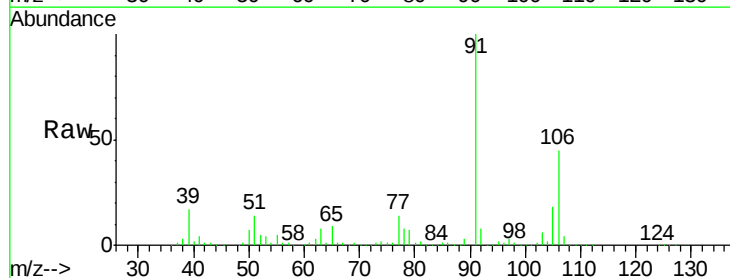


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

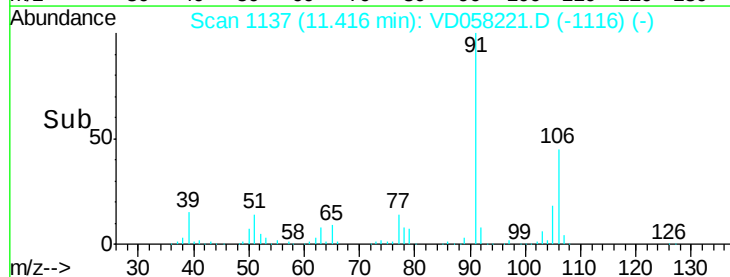
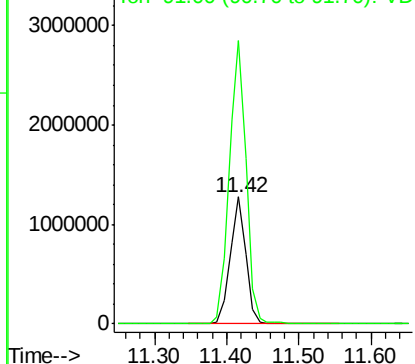


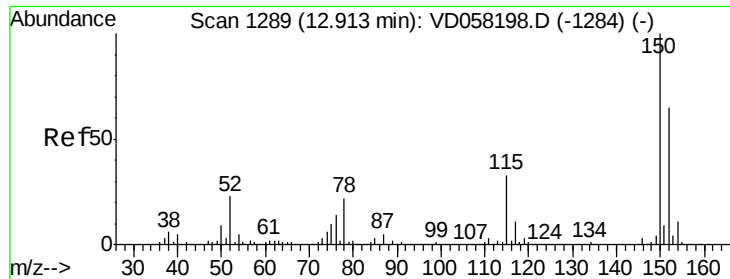
#69
o-Xylene
Concen: 650.81 ug/l
RT: 11.42 min Scan# 1137
Delta R.T. 0.01 min
Lab File: VD058221.D
Acq: 20 Jun 2018 20:32

Tgt Ion:106 Resp: 1923958
Ion Ratio Lower Upper
106 100
91 223.0 120.2 360.6



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: 50.00 ug/l

RT: 12.91 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampled :

AREA1(S)

Tot Ion:152 Resp: 65182

Ion Ratio Lower Upper

152 100

115 51.9 25.1 75.3

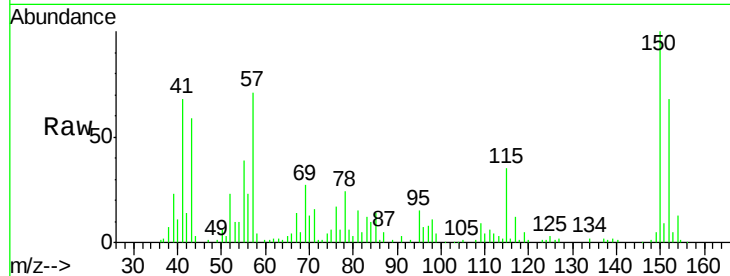
150 147.0 0.0 308.8

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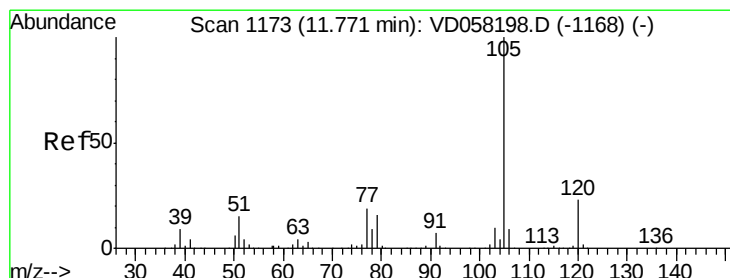
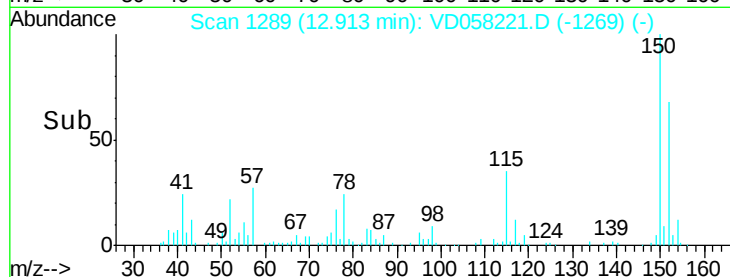
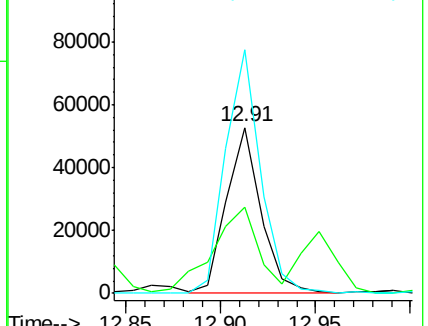
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 66.51 ug/l

RT: 11.78 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VD058221.D

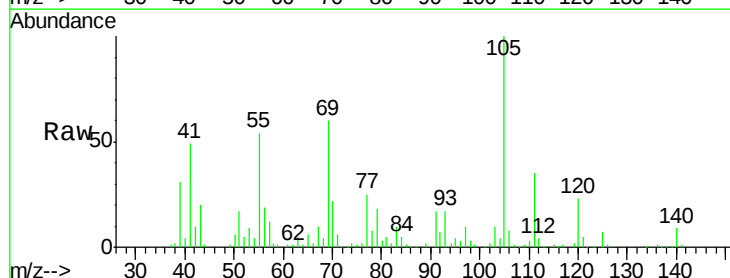
Acq: 20 Jun 2018 20:32

Tgt Ion:105 Resp: 259313

Ion Ratio Lower Upper

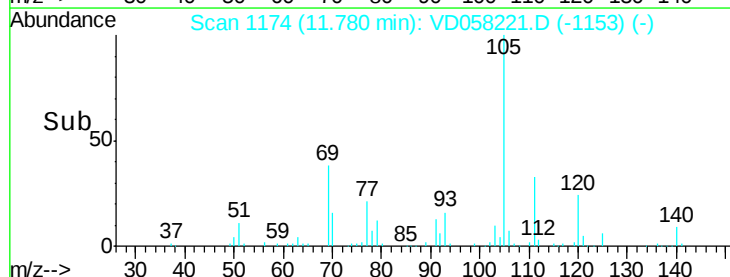
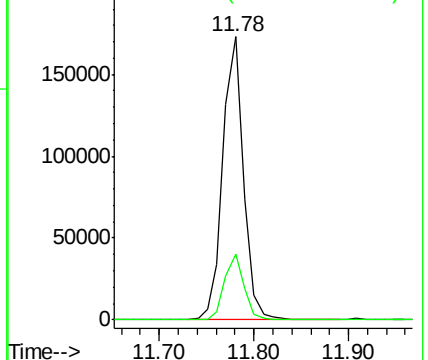
105 100

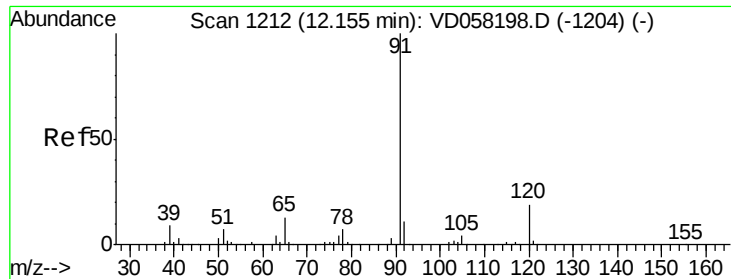
120 23.4 11.6 34.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#78

n-propylbenzene

Concen: 93.16 ug/l

RT: 12.15 min Scan# 1212

Delta R.T. -0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

AREA1(S)

Tot Ion: 91 Resp: 469060

Ion Ratio Lower Upper

91 100

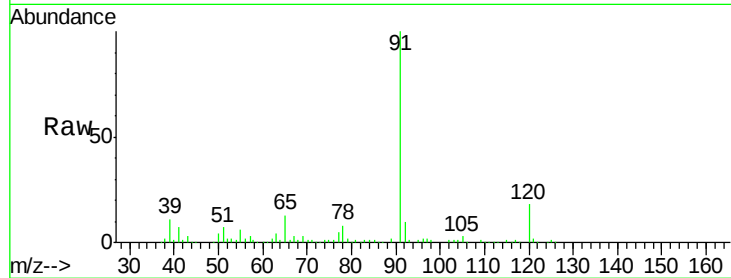
120 18.0 9.7 29.1

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Abundance Ion 91.00 (90.70 to 91.70): VD058198.D (-1204) (-)

Ion 120.05 (119.75 to 120.75): VD058198.D (-1204) (-)

12.15

400000

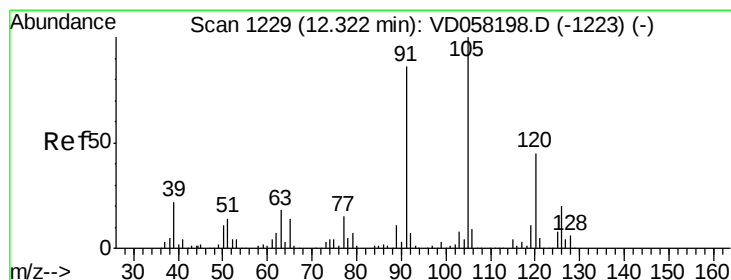
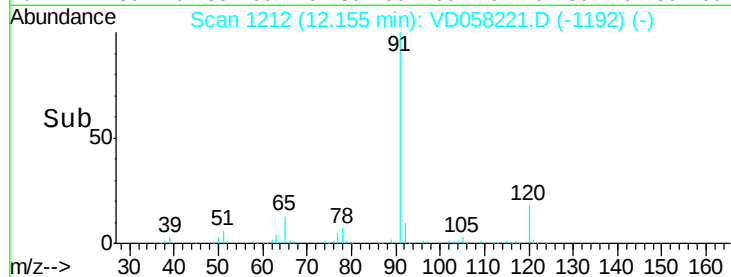
300000

200000

100000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 277.26 ug/l

RT: 12.32 min Scan# 1229

Delta R.T. -0.00 min

Lab File: VD058221.D

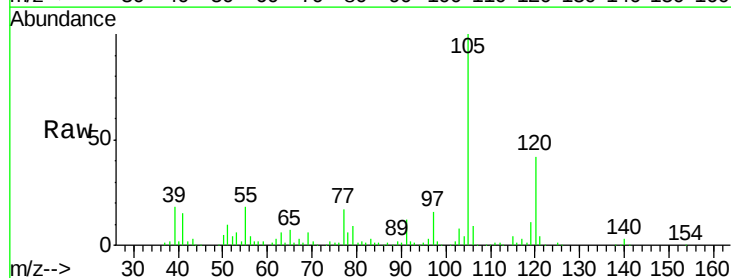
Acq: 20 Jun 2018 20:32

Tgt Ion:105 Resp: 843150

Ion Ratio Lower Upper

105 100

120 42.5 22.5 67.5



Abundance Ion 105.05 (104.75 to 105.75): VD058198.D (-1223) (-)

Ion 120.05 (119.75 to 120.75): VD058198.D (-1223) (-)

12.32

1000000

800000

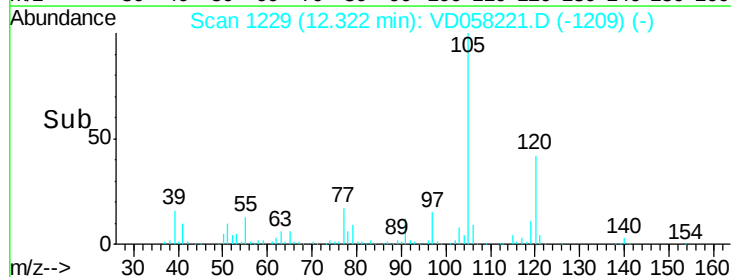
600000

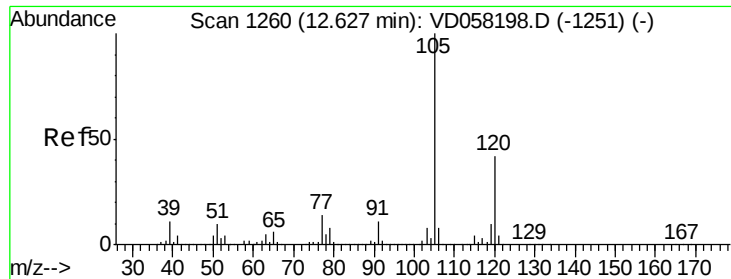
400000

200000

0

Time-->





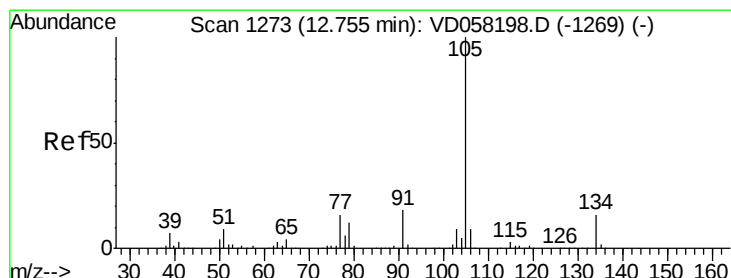
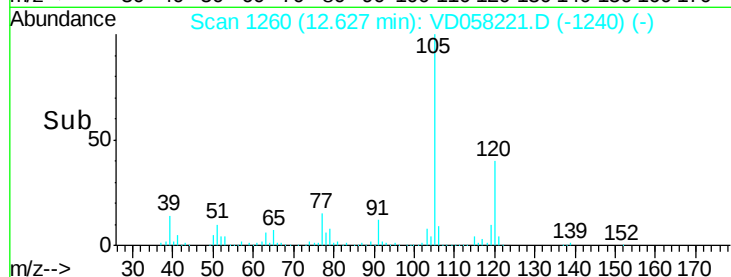
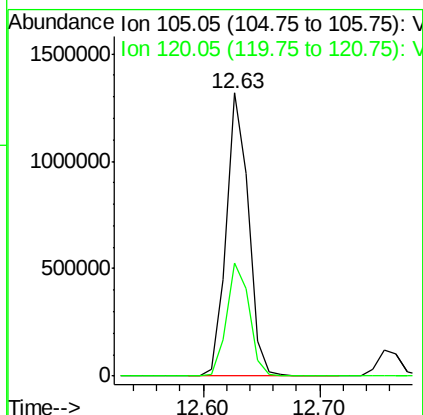
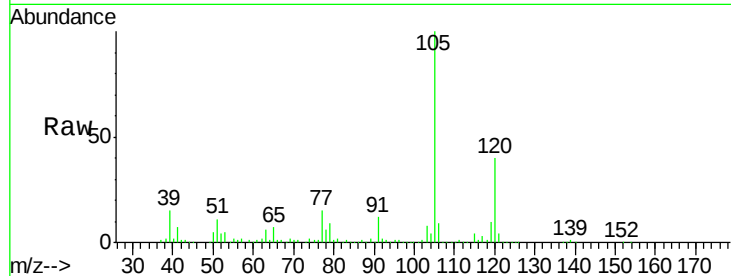
#84
 1,2,4-Trimethylbenzene
 Concen: 525.24 ug/l
 RT: 12.63 min Scan# 1260
 Delta R.T. -0.00 min
 Lab File: VD058221.D
 Acq: 20 Jun 2018 20:32

Instrument :
 MSVOA_D
 ClientSampleId :
 AREA1(S)

Tot Ion:105 Resp: 1736227
 Ion Ratio Lower Upper
 105 100
 120 39.8 20.8 62.4

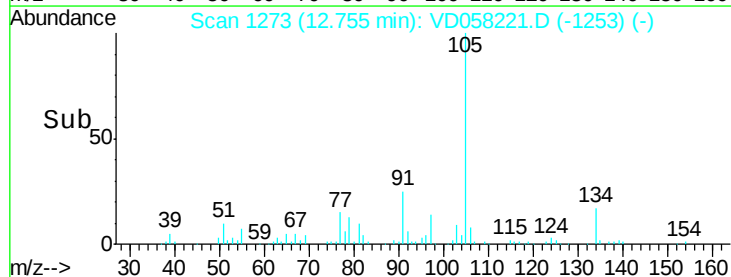
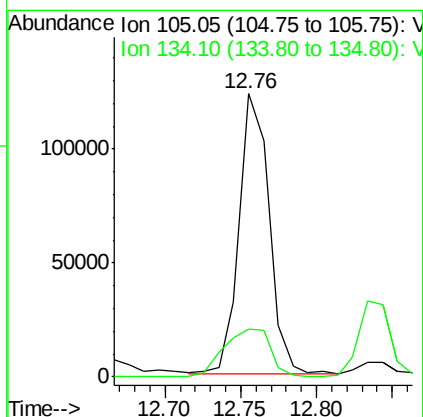
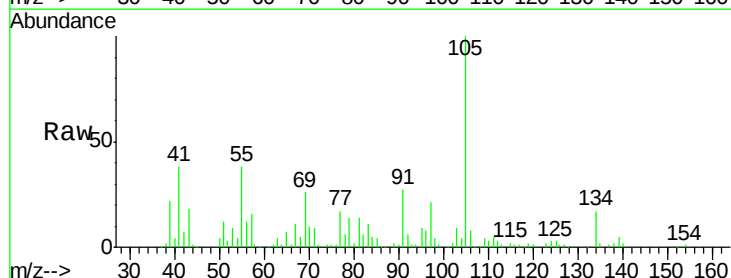
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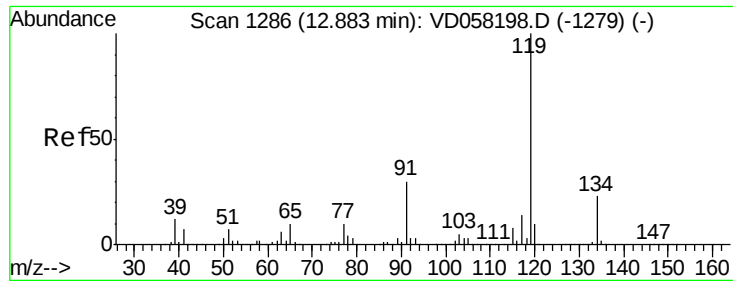
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#85
 sec-Butylbenzene
 Concen: 41.46 ug/l
 RT: 12.76 min Scan# 1273
 Delta R.T. 0.00 min
 Lab File: VD058221.D
 Acq: 20 Jun 2018 20:32

Tgt Ion:105 Resp: 169921
 Ion Ratio Lower Upper
 105 100
 134 16.8 8.1 24.3





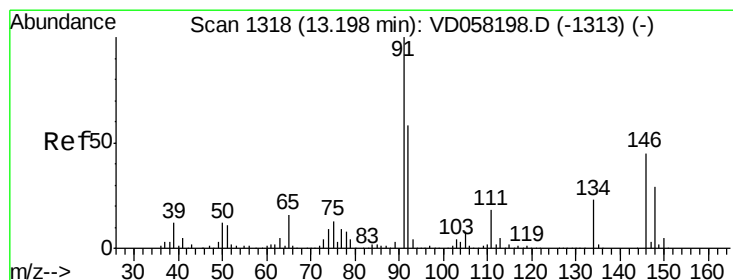
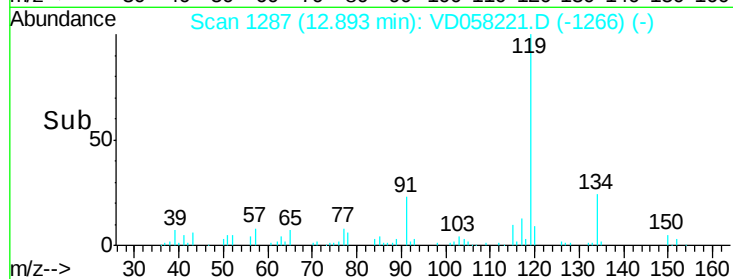
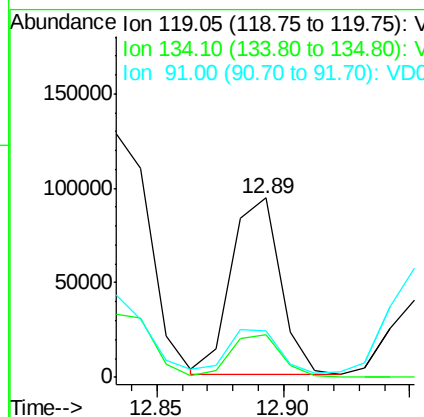
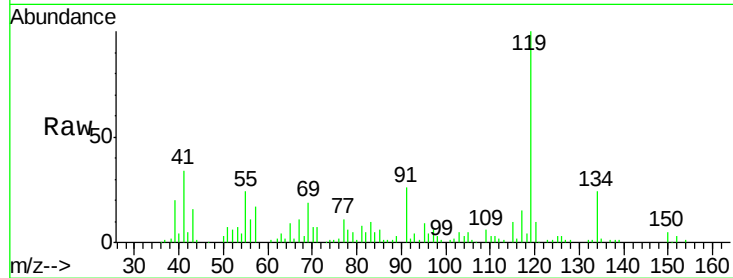
#86
 p-Isopropyltoluene
 Concen: 38.07 ug/l
 RT: 12.89 min Scan# 1287
 Delta R.T. 0.01 min
 Lab File: VD058221.D
 Acq: 20 Jun 2018 20:32

Instrument :
 MSVOA_D
 ClientSampleId :
 AREA1(S)

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.1	11.6	34.8
91	25.9	15.0	45.1

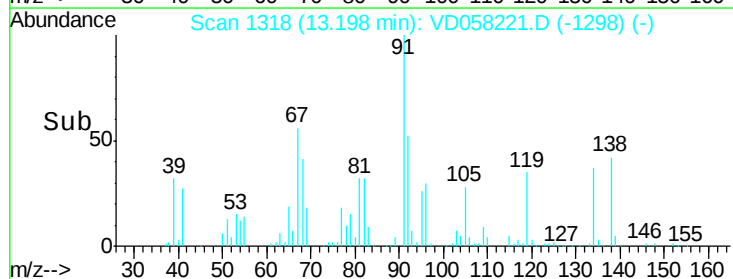
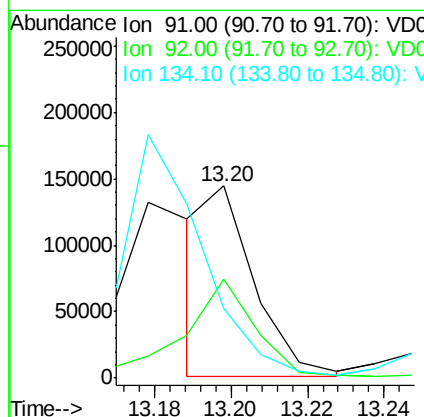
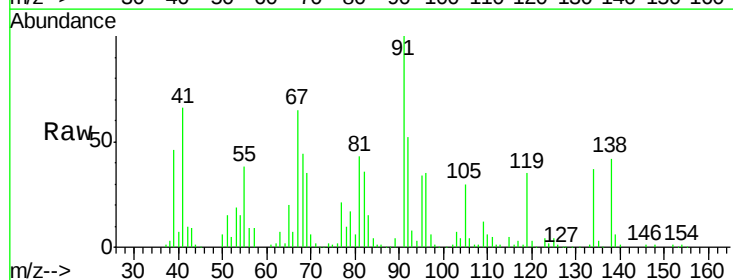
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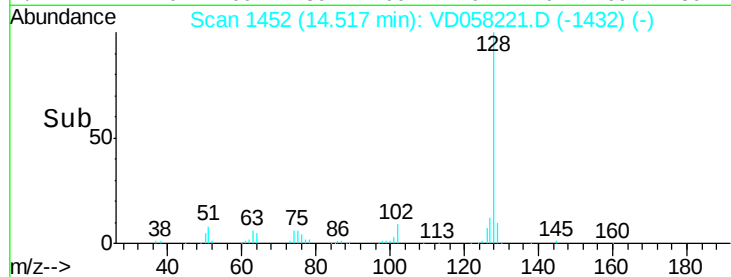
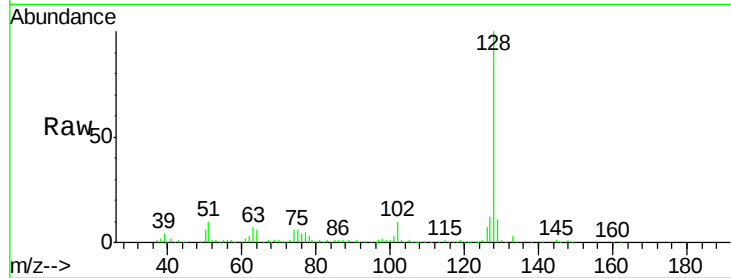
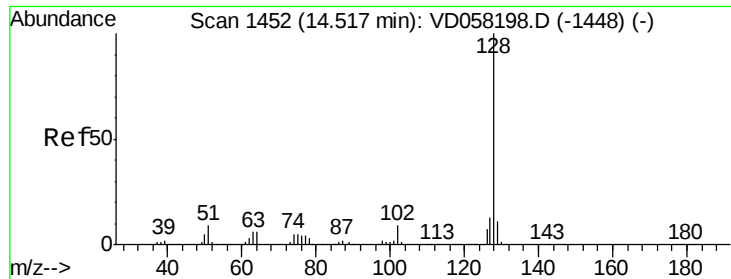
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#89
 n-Butylbenzene
 Concen: 36.02 ug/l m
 RT: 13.20 min Scan# 1318
 Delta R.T. 0.00 min
 Lab File: VD058221.D
 Acq: 20 Jun 2018 20:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.7	29.2	87.6
134	36.6	11.3	33.8#





#95

Naphthalene

Concen: 171.59 ug/l

RT: 14.52 min Scan# 1452

Delta R.T. -0.00 min

Lab File: VD058221.D

Acq: 20 Jun 2018 20:32

Instrument :

MSVOA_D

ClientSampleId :

AREA1(S)

Tot Ion:	128	Resp:	373310
Ion Ratio	Lower	Upper	
128	100		
127	12.4	10.0	15.0
129	10.7	8.7	13.1

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