

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022020\
 Data File : VD065254.D
 Acq On : 20 Feb 2020 14:03
 Operator : VA/SY
 Sample : L1601-06
 Misc : 4.30G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SW-3

Quant Time: Feb 21 04:43:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	626978	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1033803	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	921702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	424132	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	301707	53.49	ug/l	0.00
Spiked Amount			Recovery	=	106.98%	
35) Dibromofluoromethane	7.92	113	309896	49.16	ug/l	0.00
Spiked Amount			Recovery	=	98.32%	
50) Toluene-d8	10.34	98	1240502	51.48	ug/l	0.00
Spiked Amount			Recovery	=	102.96%	
62) 4-Bromofluorobenzene	12.64	95	393934	51.60	ug/l	0.00
Spiked Amount			Recovery	=	103.20%	

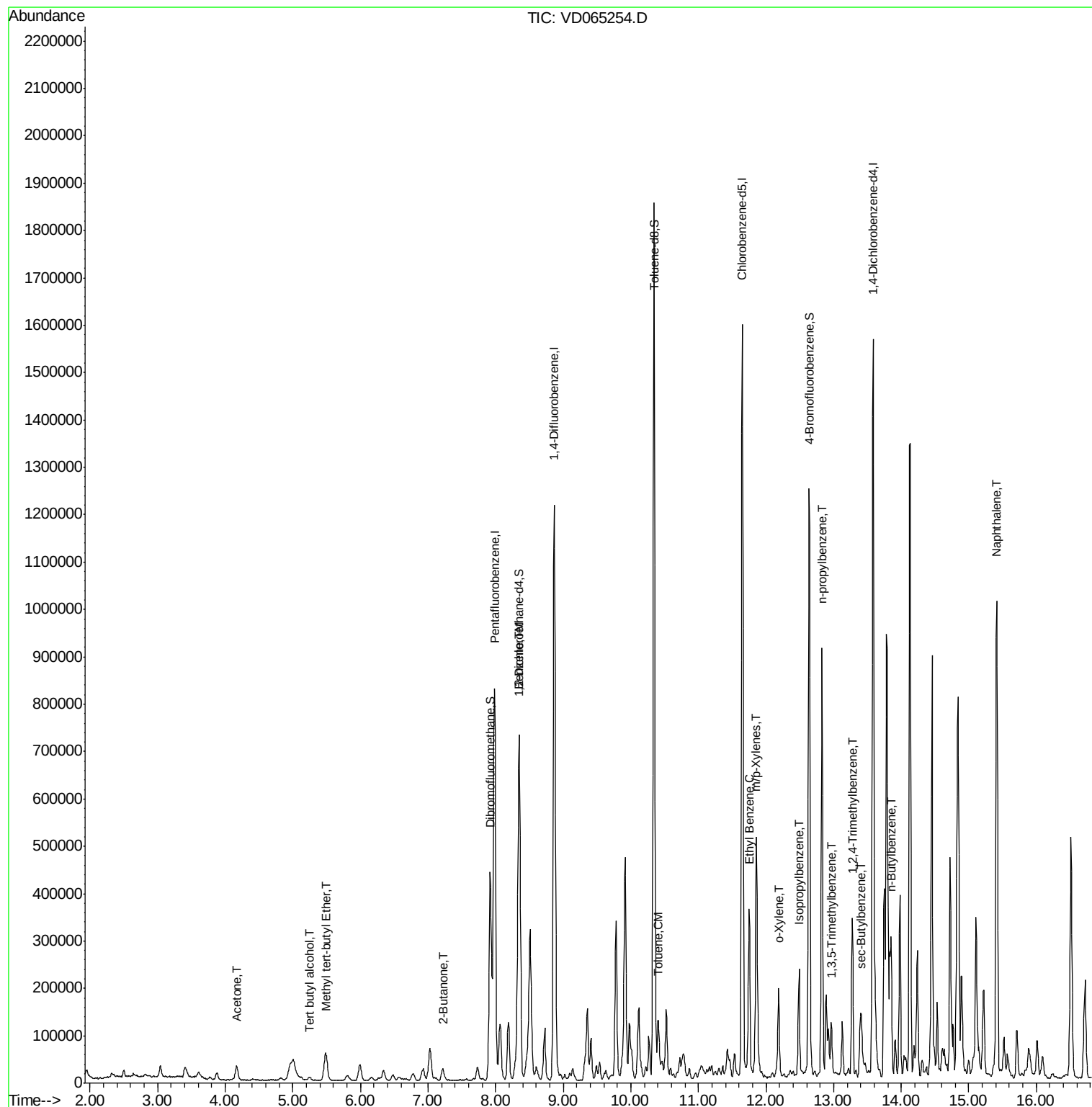
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.25	59	11126	33.010	ug/l #	72
16) Acetone	4.17	43	54083	39.225	ug/l	97
19) Methyl tert-butyl Ether	5.50	73	42051	3.469	ug/l #	1
25) 2-Butanone	7.22	43	12608	7.227	ug/l	91
40) Benzene	8.36	78	500397	17.624	ug/l	99
52) Toluene	10.41	92	51466	2.928	ug/l	97
67) Ethyl Benzene	11.75	91	237495	7.331	ug/l	97
68) m/p-Xylenes	11.86	106	159123	12.839	ug/l	99
69) o-Xylene	12.19	106	50325	4.583	ug/l	95
73) Isopropylbenzene	12.49	105	149806	5.335	ug/l	99
78) n-propylbenzene	12.83	91	702919	20.831	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	48911	2.115	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	185018	7.993	ug/l	100
85) sec-Butylbenzene	13.41	105	74888	2.681	ug/l #	58
89) n-Butylbenzene	13.86	91	172978	7.349	ug/l #	82
95) Naphthalene	15.41	128	903058	73.374	ug/l	100

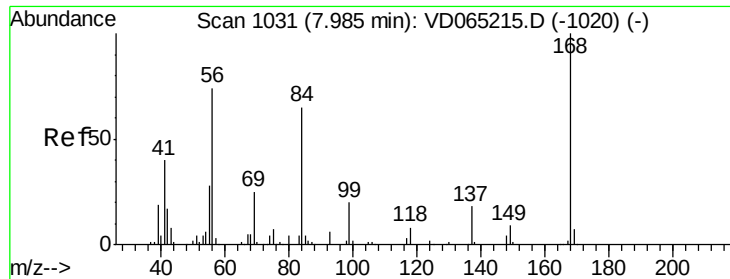
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

Instrument :

MSVOA_D

ClientSampleId :

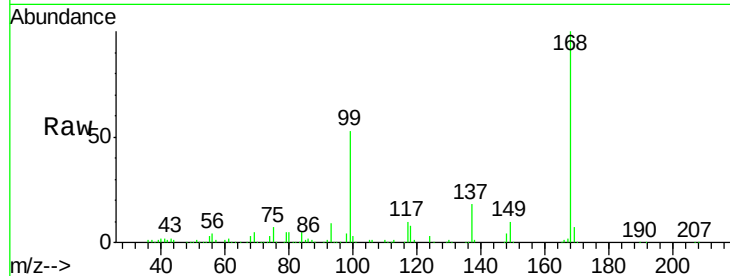
SW-3

Tot Ion:168 Resp: 626978

Ion Ratio Lower Upper

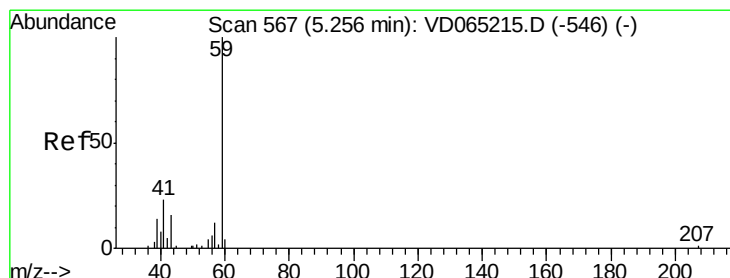
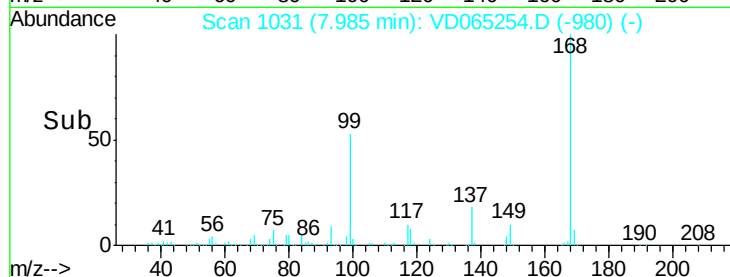
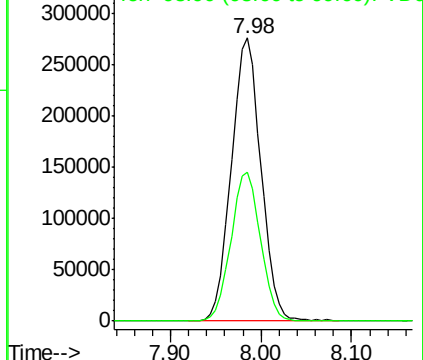
168 100

99 52.6 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 33.010 ug/l

RT: 5.25 min Scan# 566

Delta R.T. -0.01 min

Lab File: VD065254.D

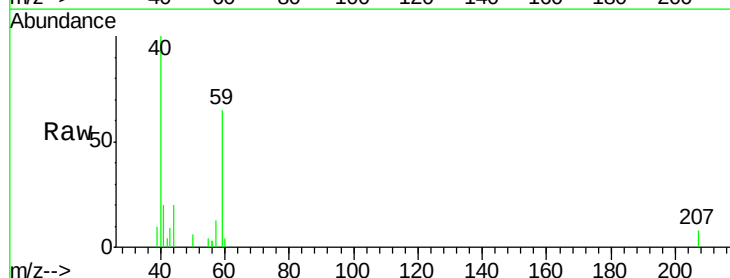
Acq: 20 Feb 2020 14:03

Tgt Ion: 59 Resp: 11126

Ion Ratio Lower Upper

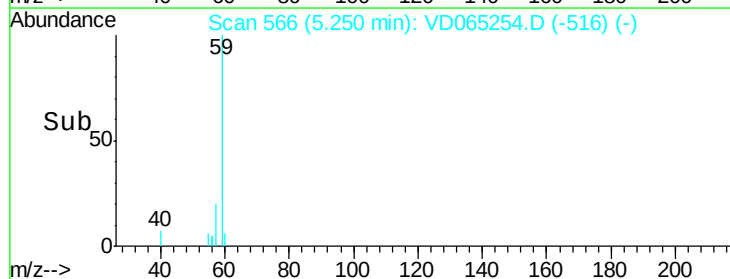
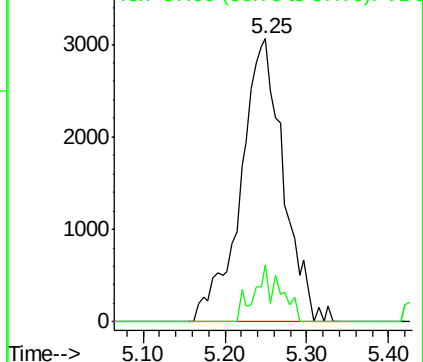
59 100

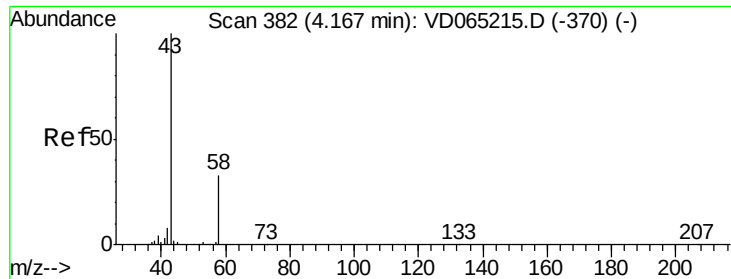
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 39.225 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

Instrument :

MSVOA_D

ClientSampleId :

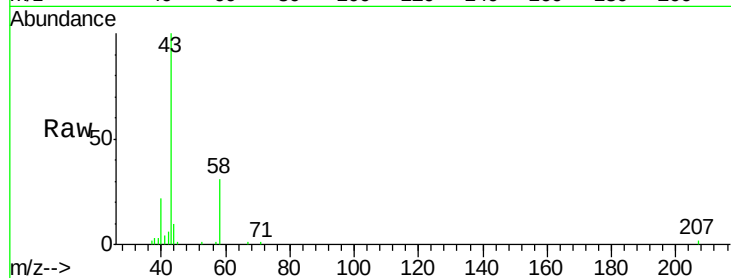
SW-3

Tot Ion: 43 Resp: 54083

Ion Ratio Lower Upper

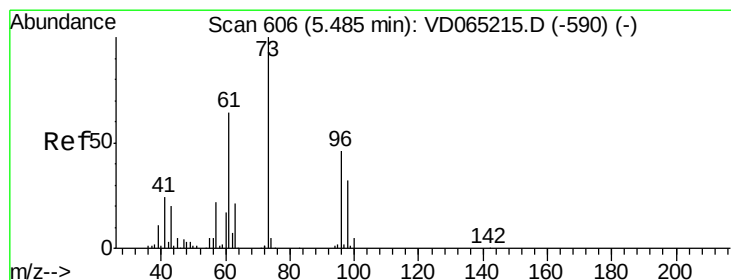
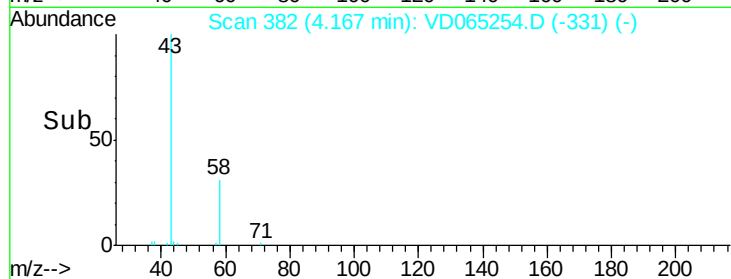
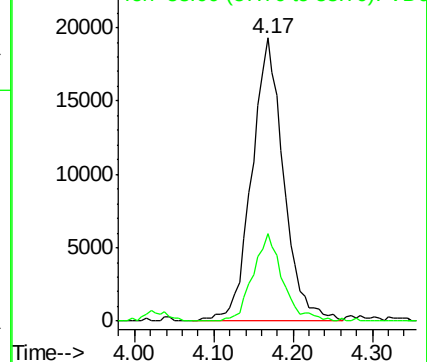
43 100

58 31.0 26.2 39.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#19

Methyl tert-butyl Ether

Concen: 3.469 ug/l

RT: 5.50 min Scan# 608

Delta R.T. 0.01 min

Lab File: VD065254.D

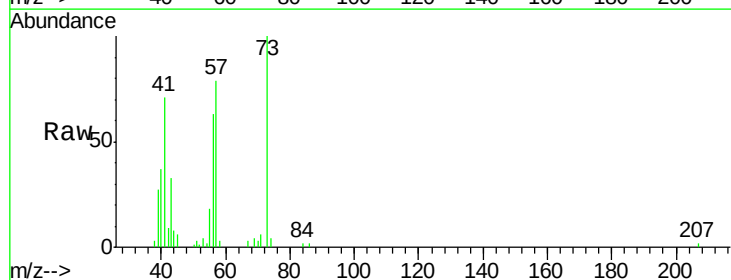
Acq: 20 Feb 2020 14:03

Tgt Ion: 73 Resp: 42051

Ion Ratio Lower Upper

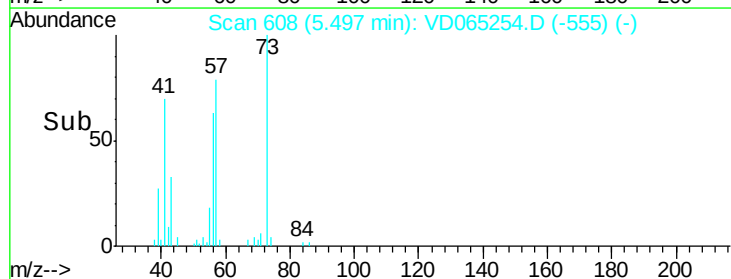
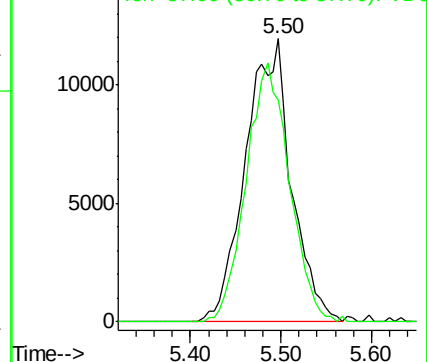
73 100

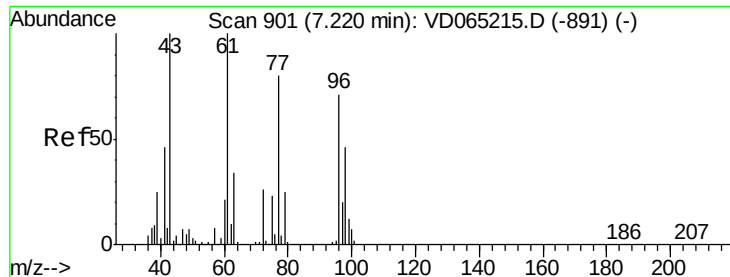
57 78.6 17.3 25.9#



Abundance Ion 73.00 (72.70 to 73.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#25

2-Butanone

Concen: 7.227 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

Instrument :

MSVOA_D

ClientSampleId :

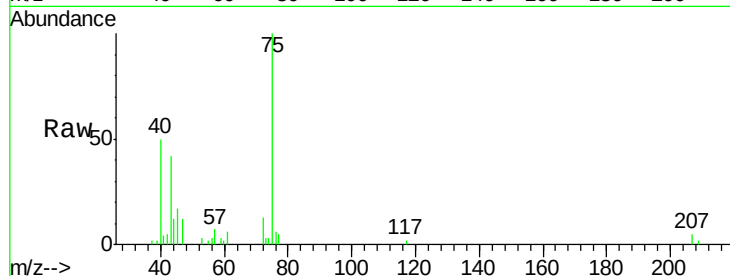
SW-3

Tot Ion: 43 Resp: 12608

Ion Ratio Lower Upper

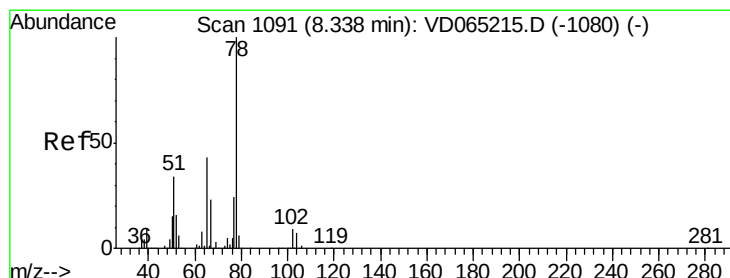
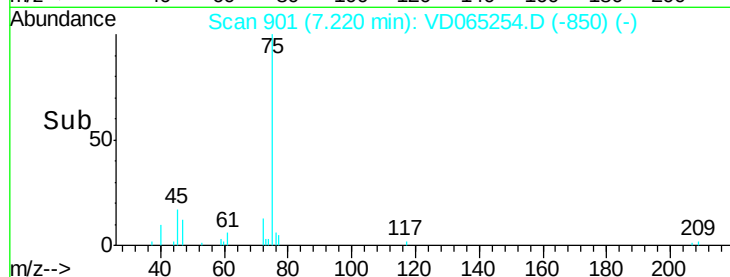
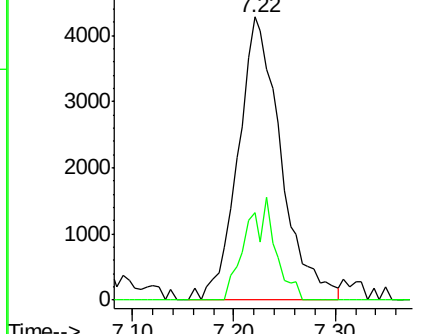
43 100

72 30.7 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 53.491 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065254.D

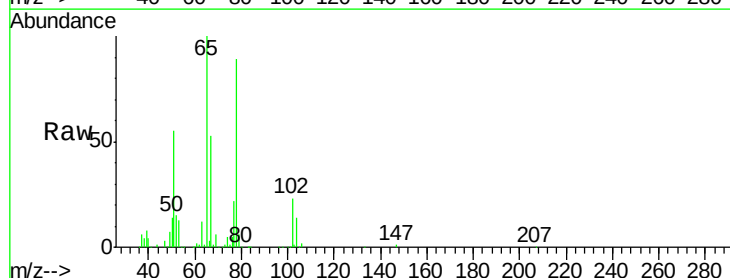
Acq: 20 Feb 2020 14:03

Tgt Ion: 65 Resp: 301707

Ion Ratio Lower Upper

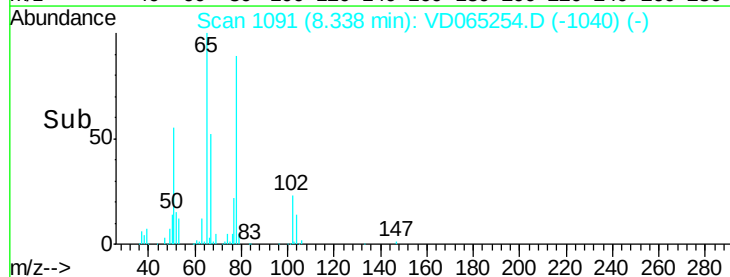
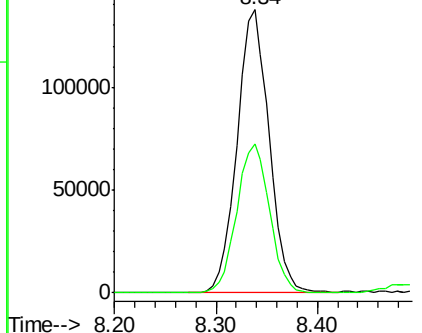
65 100

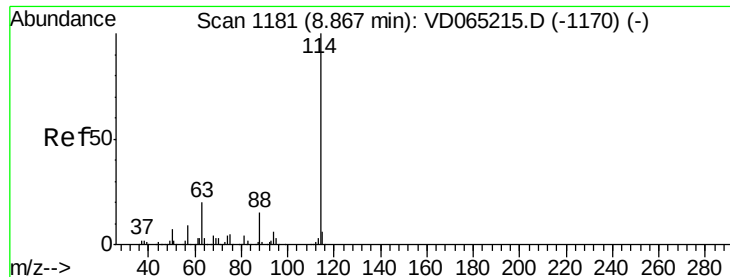
67 54.0 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

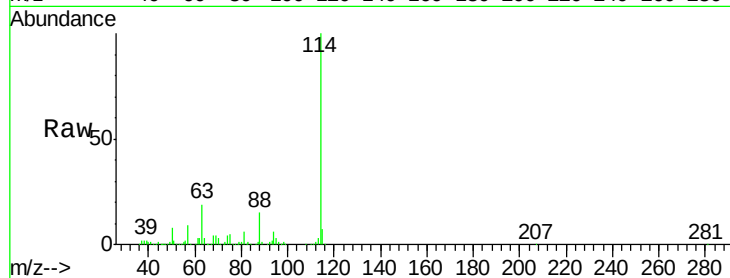




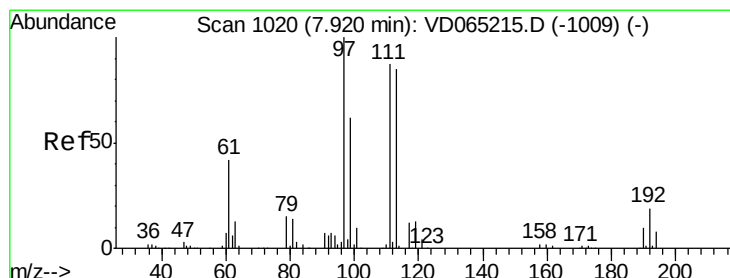
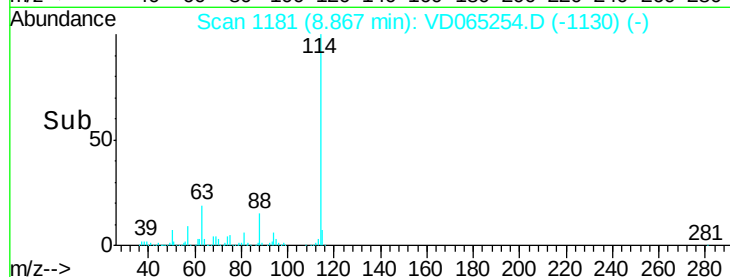
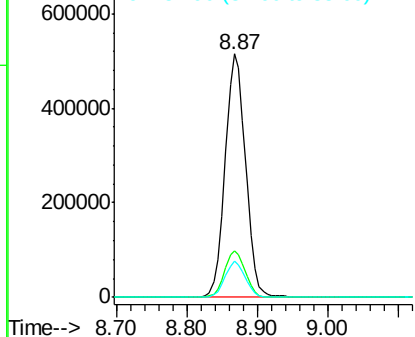
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD065254.D
 Acq: 20 Feb 2020 14:03

Instrument :
 MSVOA_D
 ClientSampleId :
 SW-3

Tot Ion:114 Resp: 1033803
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 39.4
 88 15.0 0.0 30.4

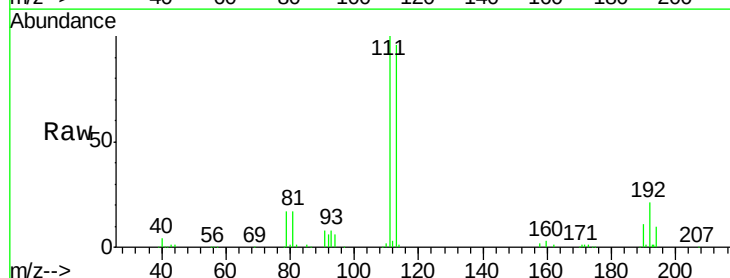


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

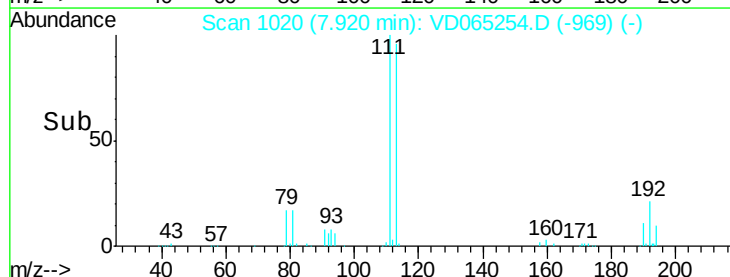
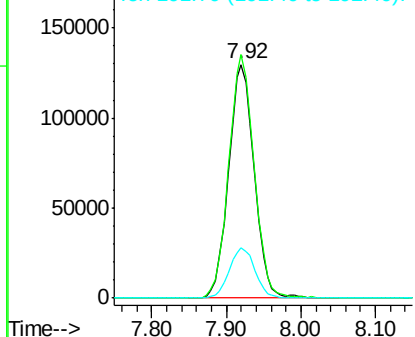


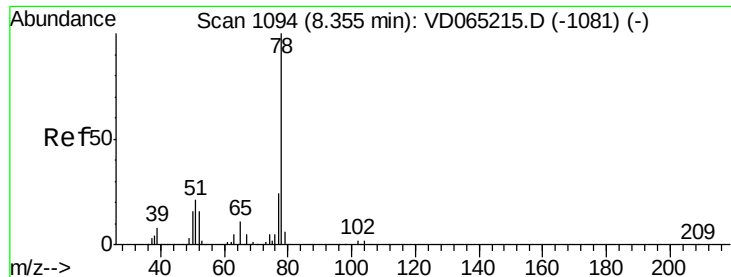
#35
 Dibromofluoromethane
 Concen: 49.162 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD065254.D
 Acq: 20 Feb 2020 14:03

Tgt Ion:113 Resp: 309896
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.9 124.3
 192 21.7 17.3 25.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#40

Benzene

Concen: 17.624 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

Instrument :

MSVOA_D

ClientSampleId :

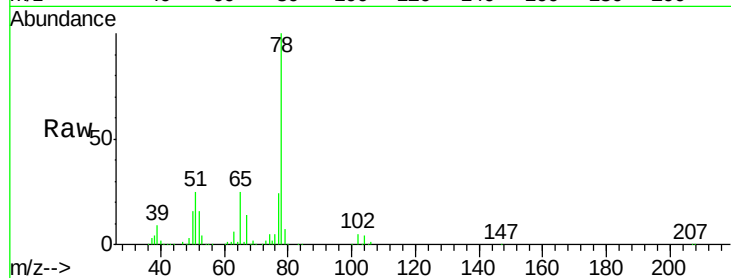
SW-3

Tot Ion: 78 Resp: 500397

Ion Ratio Lower Upper

78 100

77 24.3 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC

8.36

250000

200000

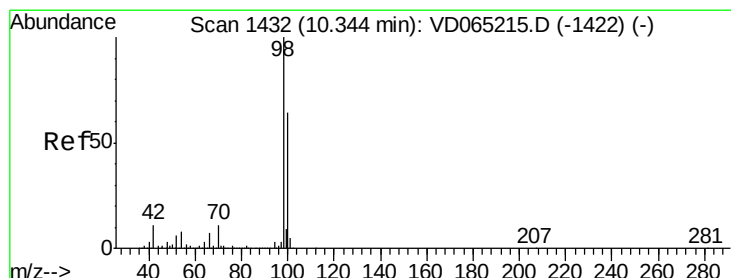
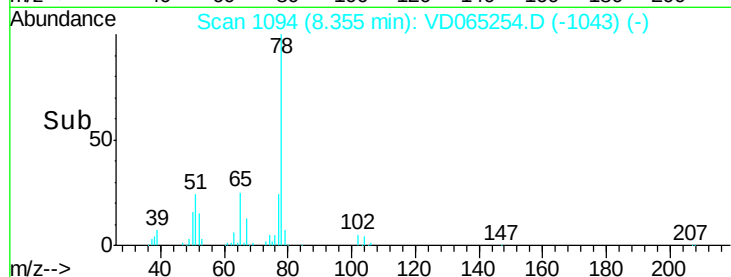
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: 51.478 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065254.D

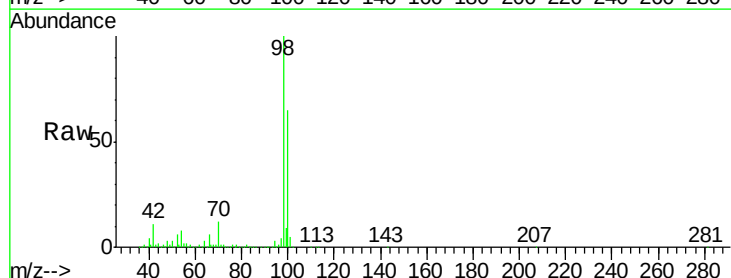
Acq: 20 Feb 2020 14:03

Tgt Ion: 98 Resp: 1240502

Ion Ratio Lower Upper

98 100

100 65.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

800000

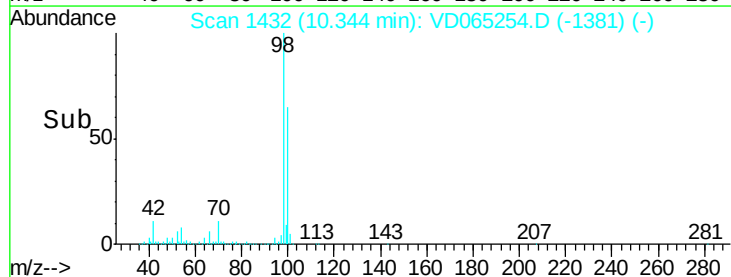
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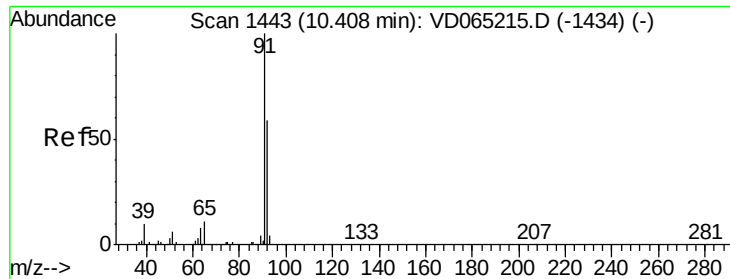
400000

200000

0

Time-->





#52

Toluene

Concen: 2.928 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

Instrument :

MSVOA_D

ClientSampled :

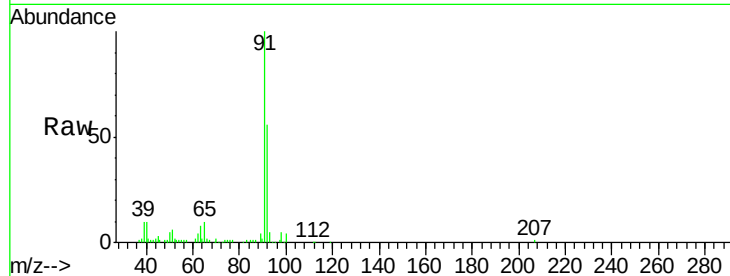
SW-3

Tot Ion: 92 Resp: 51466

Ion Ratio Lower Upper

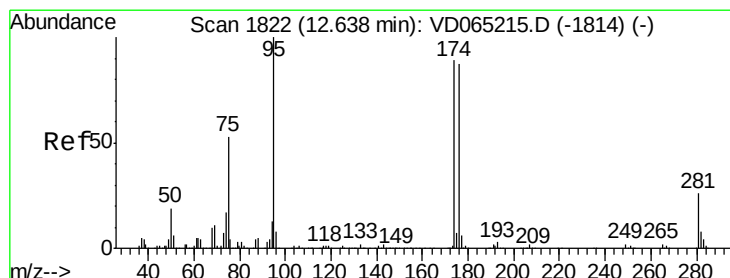
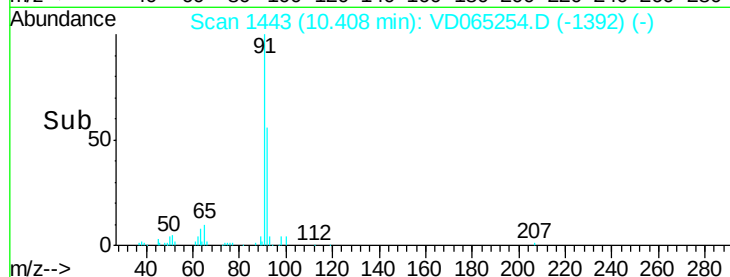
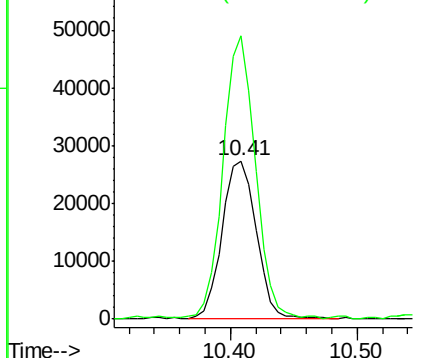
92 100

91 166.7 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 51.603 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

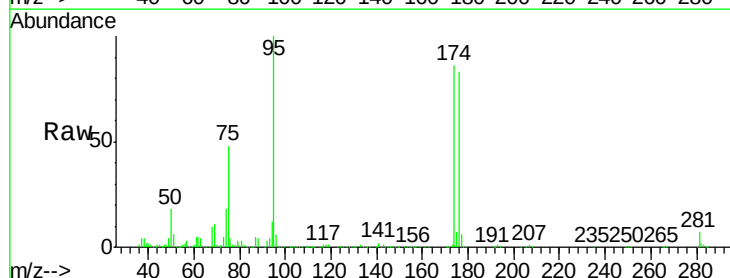
Tgt Ion: 95 Resp: 393934

Ion Ratio Lower Upper

95 100

174 88.6 0.0 178.0

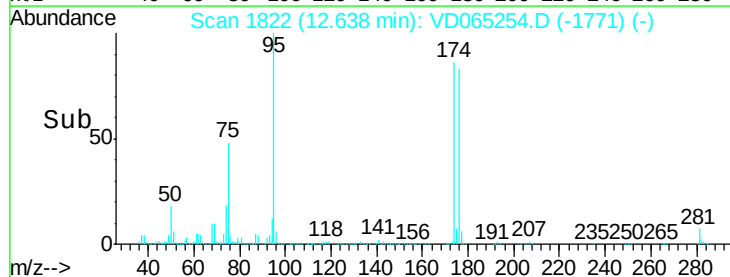
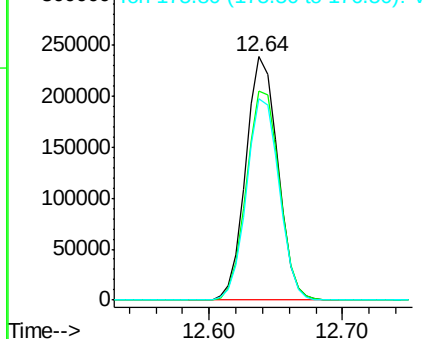
176 84.3 0.0 174.4

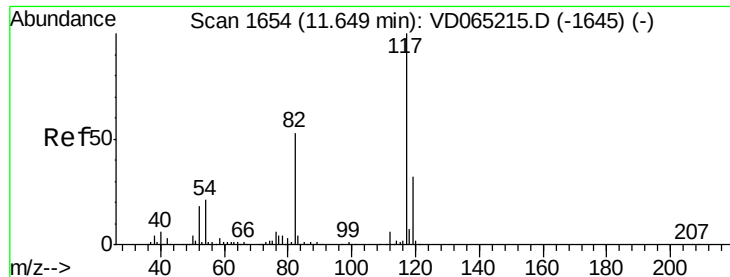


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

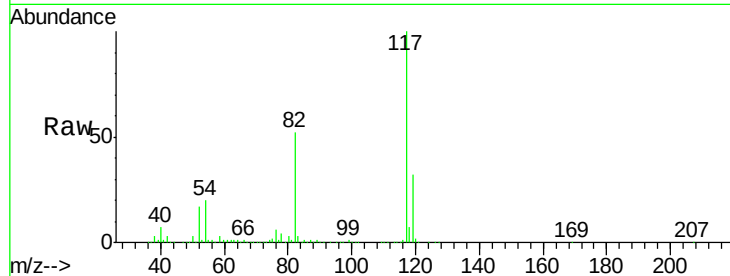




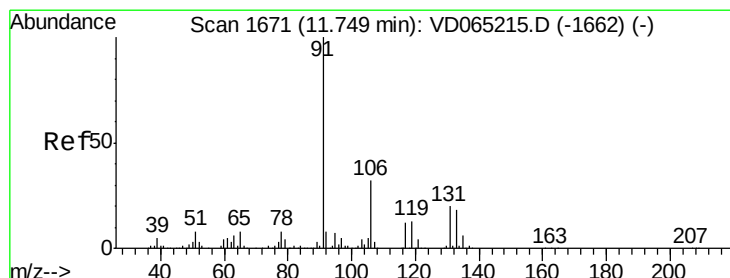
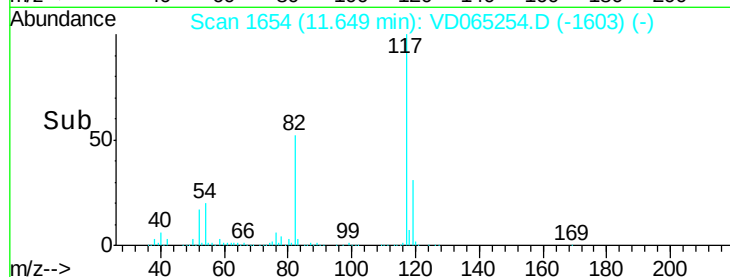
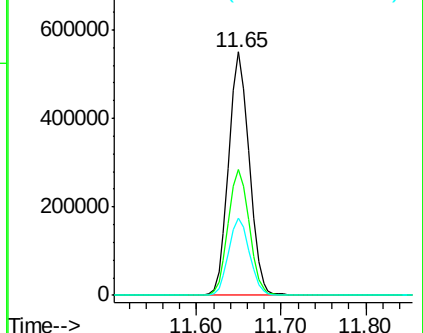
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065254.D
Acq: 20 Feb 2020 14:03

Instrument :
MSVOA_D
ClientSampleId :
SW-3

Tot Ion:117 Resp: 921702
Ion Ratio Lower Upper
117 100
82 51.7 42.7 64.1
119 31.5 25.5 38.3

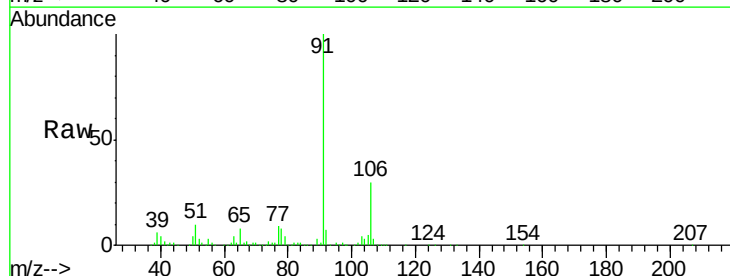


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

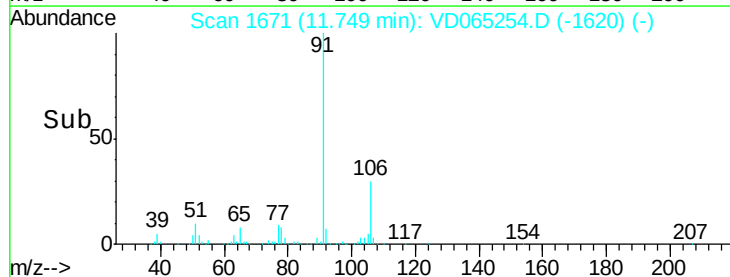
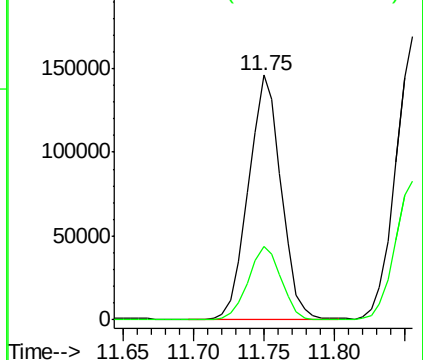


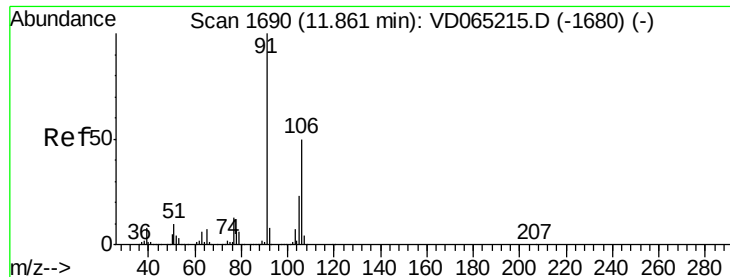
#67
Ethyl Benzene
Concen: 7.331 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD065254.D
Acq: 20 Feb 2020 14:03

Tgt Ion: 91 Resp: 237495
Ion Ratio Lower Upper
91 100
106 29.8 25.2 37.8



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 12.839 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

Instrument :

MSVOA_D

ClientSampled :

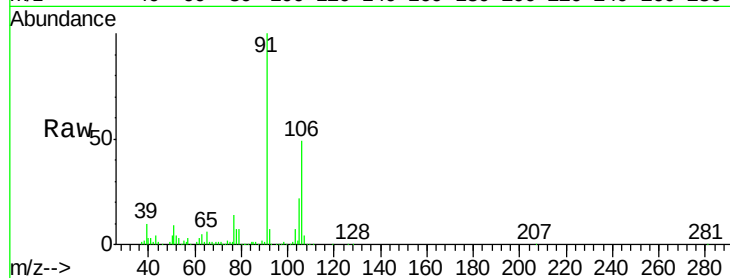
SW-3

Tot Ion:106 Resp: 159123

Ion Ratio Lower Upper

106 100

91 197.0 158.2 237.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC

200000

150000

100000

50000

0

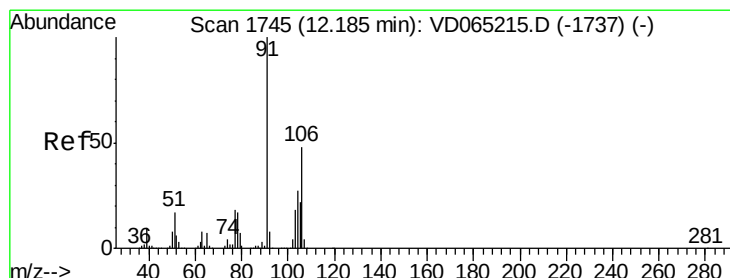
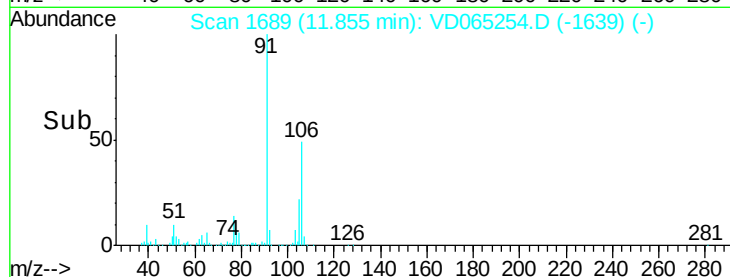
11.80

11.86

11.90

12.00

Time-->



#69

o-Xylene

Concen: 4.583 ug/l

RT: 12.19 min Scan# 1746

Delta R.T. 0.01 min

Lab File: VD065254.D

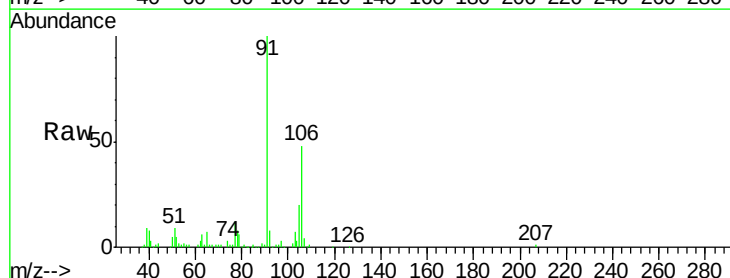
Acq: 20 Feb 2020 14:03

Tgt Ion:106 Resp: 50325

Ion Ratio Lower Upper

106 100

91 217.1 104.7 313.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC

60000

40000

20000

0

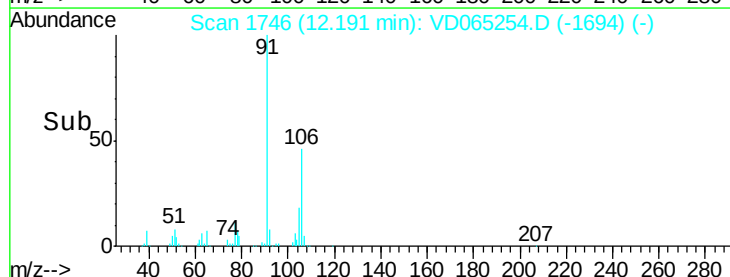
12.10

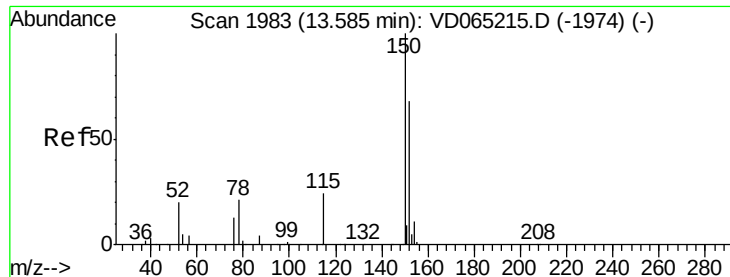
12.15

12.20

12.25

Time-->



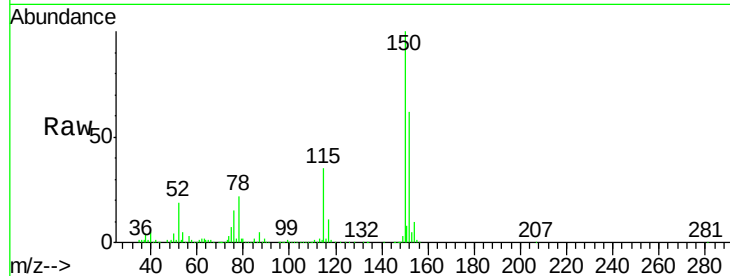


#72

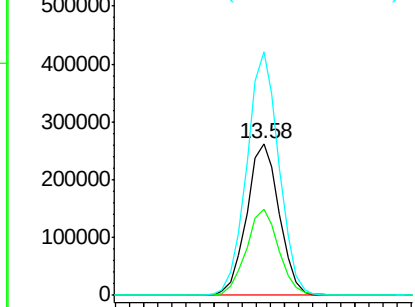
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065254.D
Acq: 20 Feb 2020 14:03

Instrument :
MSVOA_D
ClientSampleId :
SW-3

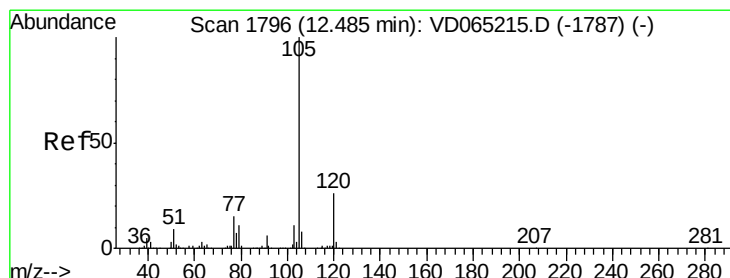
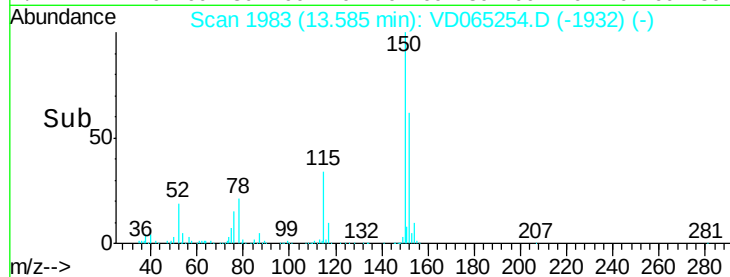
Tot Ion	Ratio	Lower	Upper
152	100		
115	56.8	27.6	82.8
150	158.1	0.0	347.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



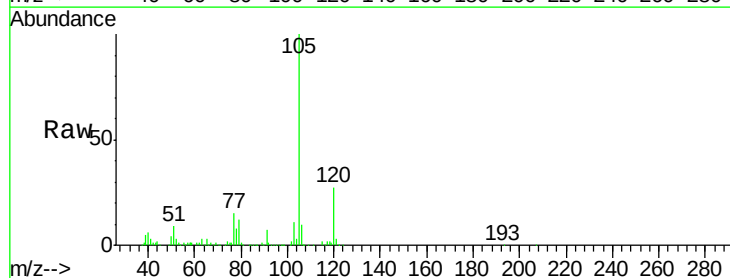
Time-->



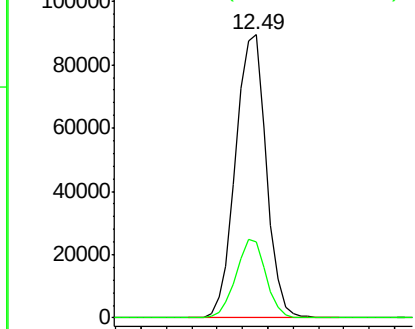
#73

Isopropylbenzene
Concen: 5.335 ug/l
RT: 12.49 min Scan# 1797
Delta R.T. 0.01 min
Lab File: VD065254.D
Acq: 20 Feb 2020 14:03

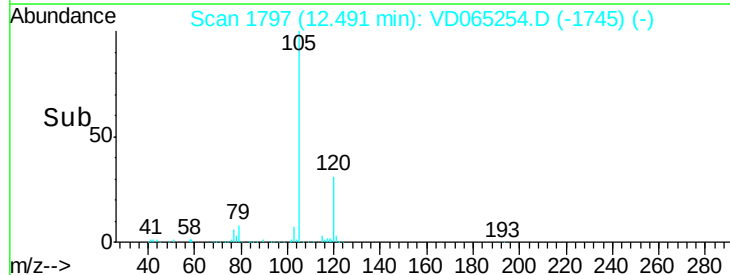
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.0	13.3	39.9

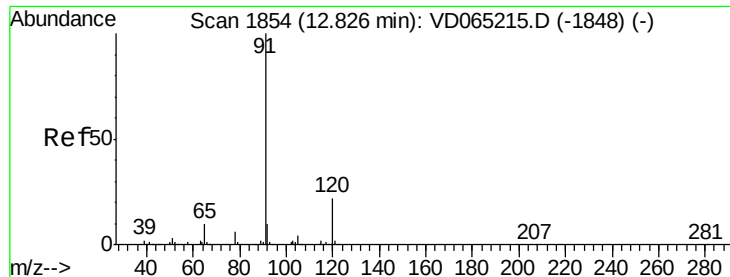


Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



Time-->





#78

n-propylbenzene

Concen: 20.831 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

Instrument :

MSVOA_D

ClientSampleId :

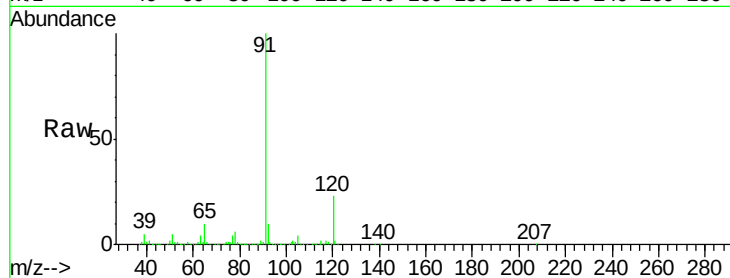
SW-3

Tot Ion: 91 Resp: 702919

Ion Ratio Lower Upper

91 100

120 23.2 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

12.83

400000

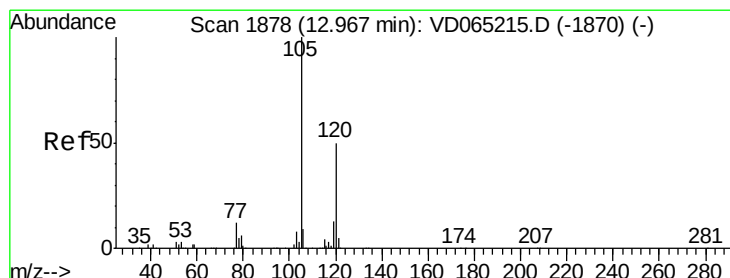
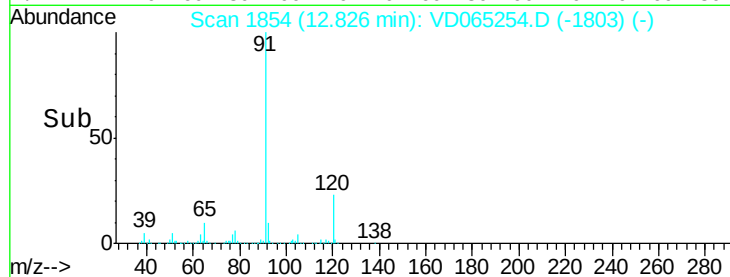
300000

200000

100000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 2.115 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065254.D

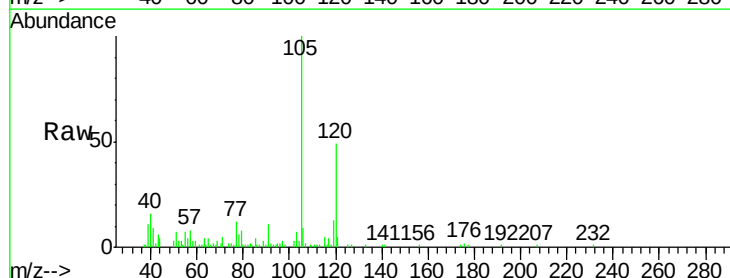
Acq: 20 Feb 2020 14:03

Tgt Ion: 105 Resp: 48911

Ion Ratio Lower Upper

105 100

120 50.3 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.97

40000

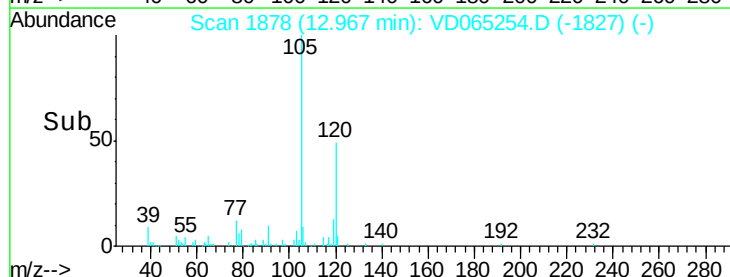
30000

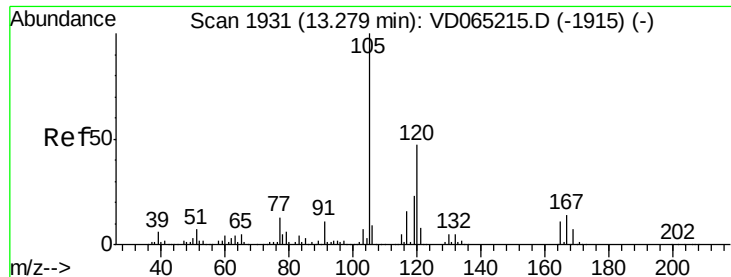
20000

10000

0

Time-->

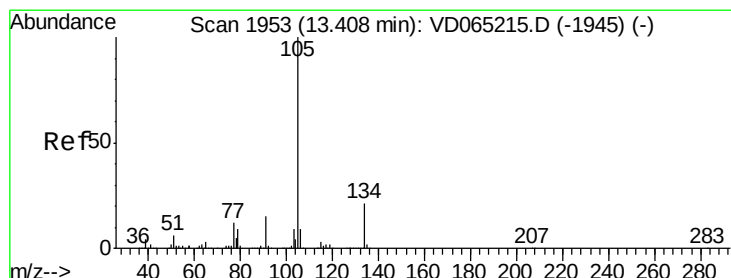
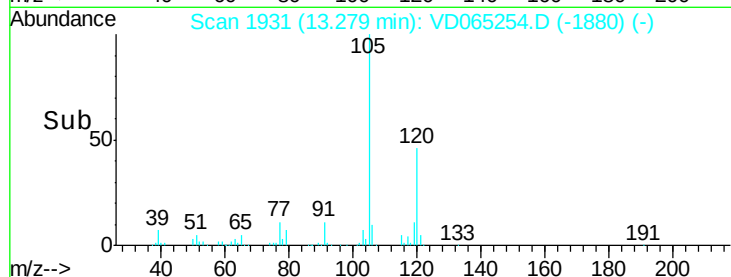
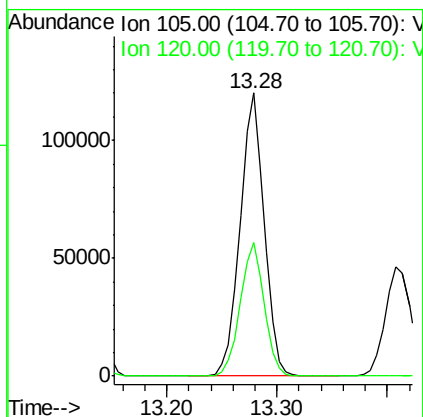
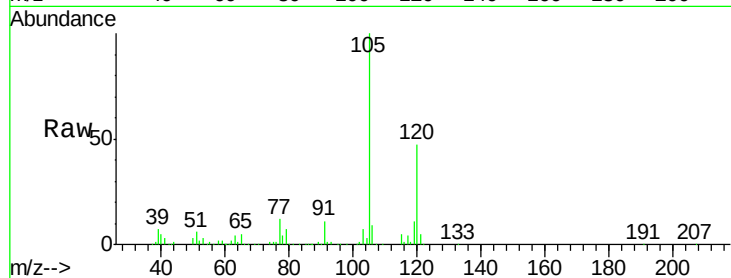




#84
 1,2,4-Trimethylbenzene
 Concen: 7.993 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. 0.00 min
 Lab File: VD065254.D
 Acq: 20 Feb 2020 14:03

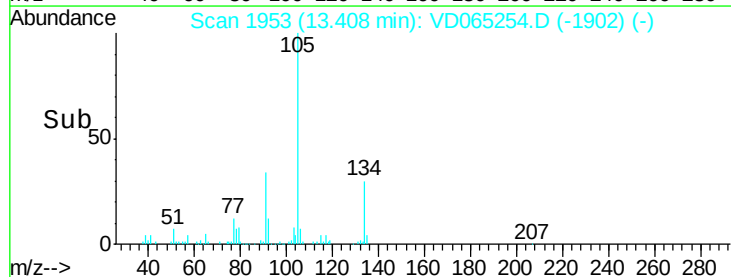
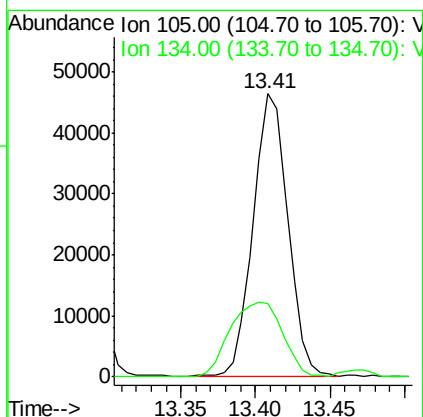
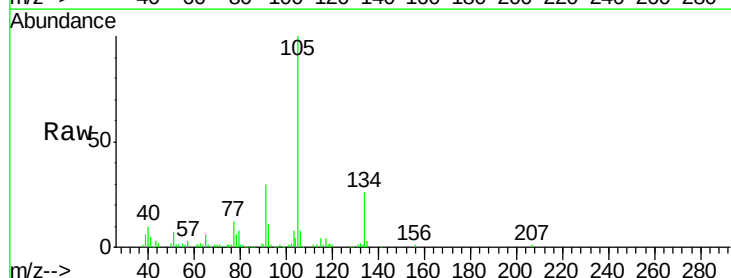
Instrument :
 MSVOA_D
 ClientSampleId :
 SW-3

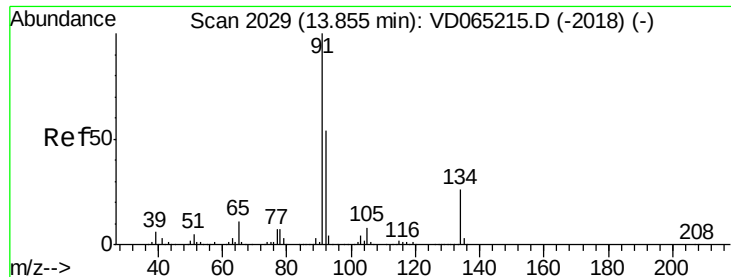
Tot Ion:105 Resp: 185018
 Ion Ratio Lower Upper
 105 100
 120 46.8 23.3 69.9



#85
 sec-Butylbenzene
 Concen: 2.681 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.00 min
 Lab File: VD065254.D
 Acq: 20 Feb 2020 14:03

Tgt Ion:105 Resp: 74888
 Ion Ratio Lower Upper
 105 100
 134 40.2 10.3 30.9#





#89

n-Butylbenzene

Concen: 7.349 ug/l

RT: 13.86 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

Instrument :

MSVOA_D

ClientSampleId :

SW-3

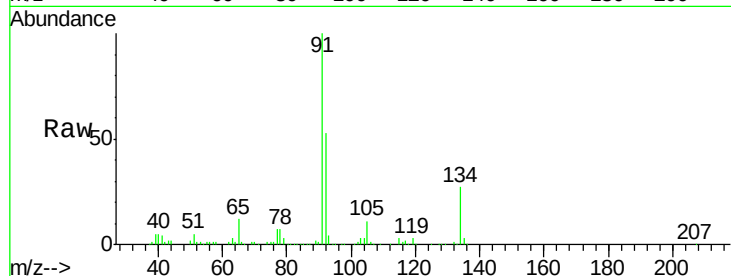
Tot Ion: 91 Resp: 172978

Ion Ratio Lower Upper

91 100

92 48.7 27.0 80.8

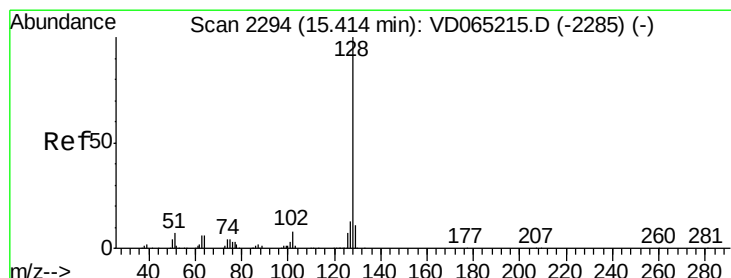
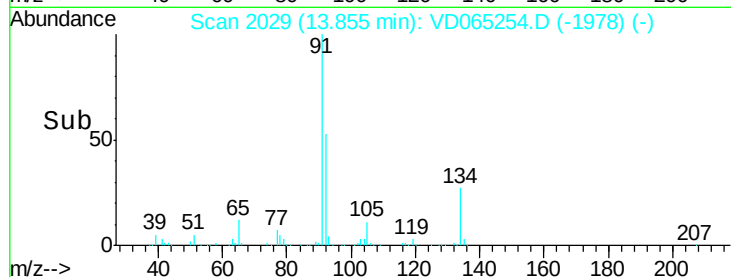
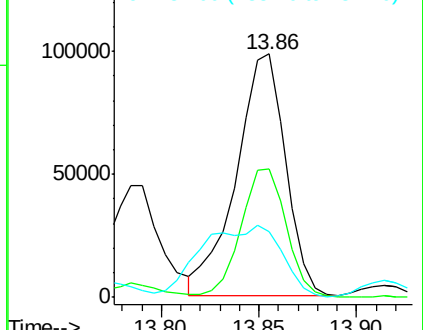
134 47.4 13.5 40.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.00 (133.70 to 134.70): VDC



#95

Naphthalene

Concen: 73.374 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD065254.D

Acq: 20 Feb 2020 14:03

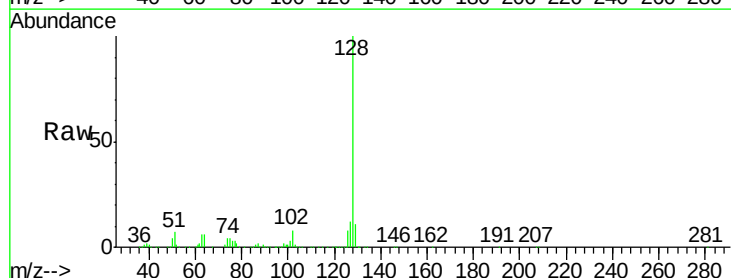
Tgt Ion: 128 Resp: 903058

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 11.2 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): VDC

Ion 127.00 (126.70 to 127.70): VDC

Ion 129.00 (128.70 to 129.70): VDC

