

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD090420\
 Data File : VD066565.D
 Acq On : 04 Sep 2020 16:12
 Operator : VA/SY
 Sample : L3876-09
 Misc : 5.02G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 1495-96

Quant Time: Sep 05 08:04:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D090320S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 04 01:57:04 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.97	168	289547	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	545074	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	256387	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	21952	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	230630	65.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	131.66%	
35) Dibromofluoromethane	7.91	113	204154	55.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.04%	
50) Toluene-d8	10.34	98	469616	35.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.46%	
62) 4-Bromofluorobenzene	12.63	95	59730	13.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	27.42%	

Target Compounds

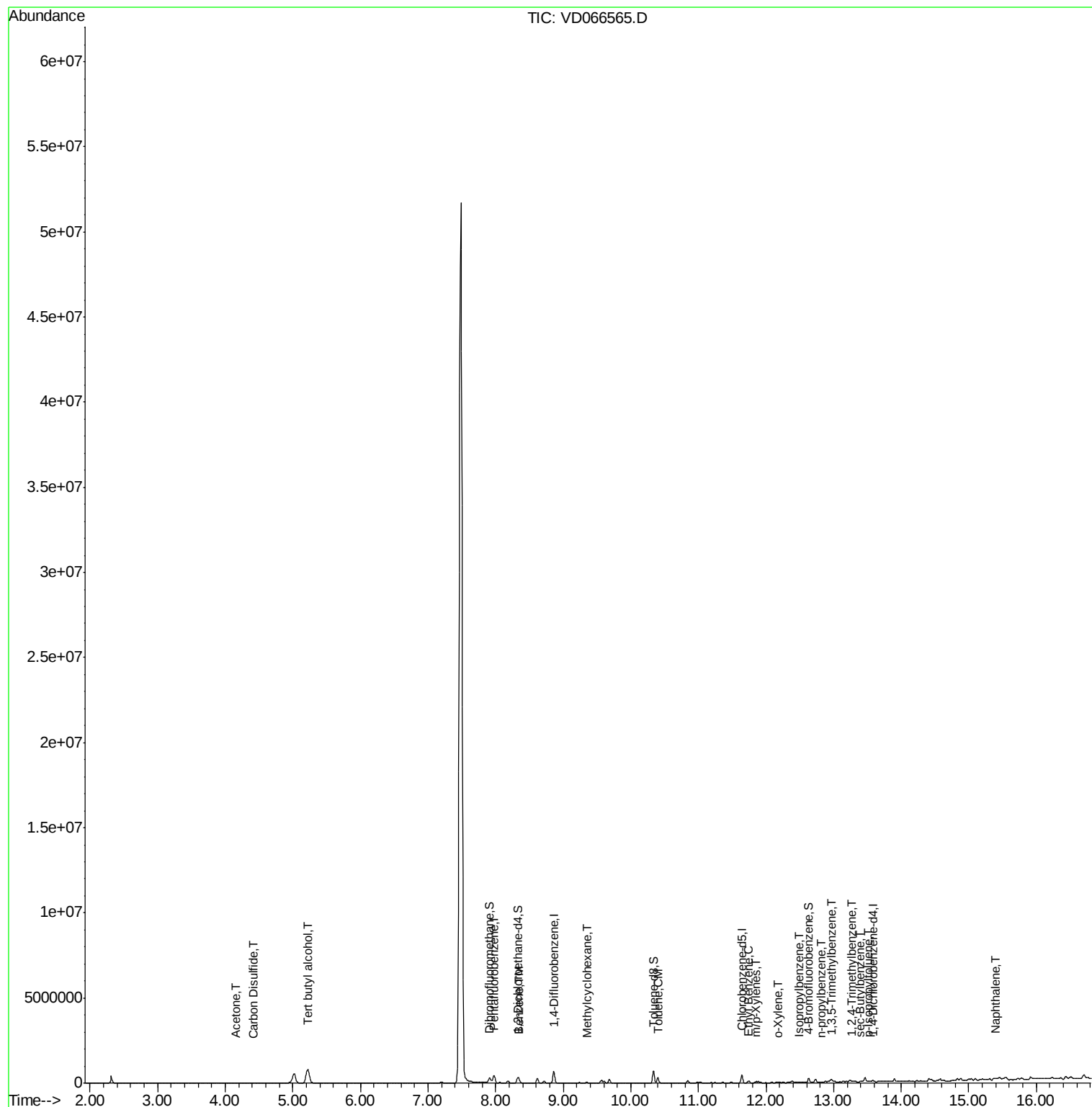
						Qvalue
11) Tert butyl alcohol	5.22	59	1538950	8526.945	ug/l	96
16) Acetone	4.16	43	23766	36.870	ug/l	89
17) Carbon Disulfide	4.41	76	16058	1.674	ug/l	97
39) Methylcyclohexane	9.36	83	11214	1.770	ug/l #	89
40) Benzene	8.35	78	93148	5.996	ug/l	100
52) Toluene	10.40	92	131854	13.408	ug/l	99
67) Ethyl Benzene	11.74	91	73626	7.577	ug/l	98
68) m/p-Xylenes	11.86	106	19060	5.283	ug/l	100
69) o-Xylene	12.18	106	6134	1.897	ug/l	95
73) Isopropylbenzene	12.48	105	13065	8.039	ug/l	96
78) n-propylbenzene	12.82	91	8587	4.358	ug/l	90
80) 1,3,5-Trimethylbenzene	12.96	105	14193	10.375	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	37257	27.355	ug/l	99
85) sec-Butylbenzene	13.40	105	7682	4.773	ug/l #	67
86) p-Isopropyltoluene	13.52	119	10953	7.561	ug/l	93
95) Naphthalene	15.41	128	113229	171.714	ug/l	97

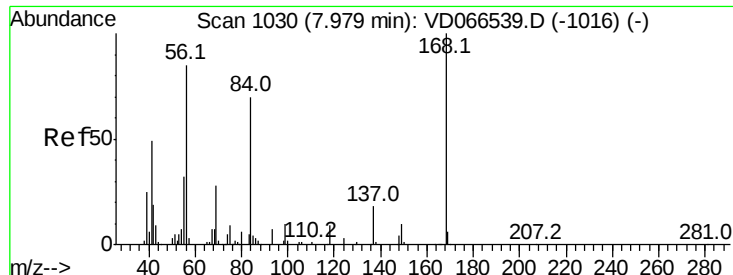
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Sep 04 01:57:04 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

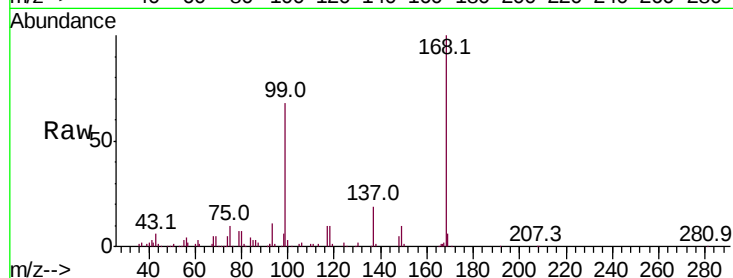
1495-96

Tot Ion:168 Resp: 289547

Ion Ratio Lower Upper

168 100

99 68.2 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.97

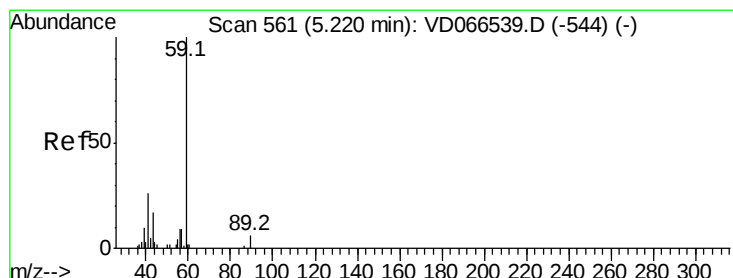
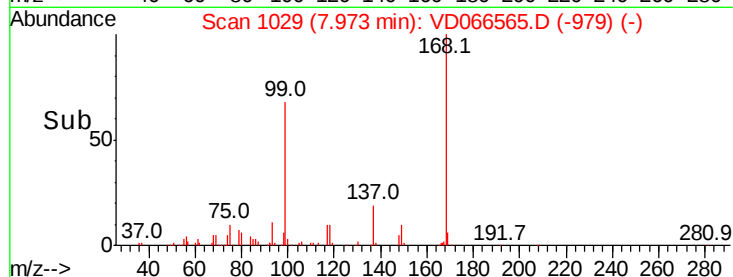
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 8526.945 ug/l

RT: 5.22 min Scan# 561

Delta R.T. 0.00 min

Lab File: VD066565.D

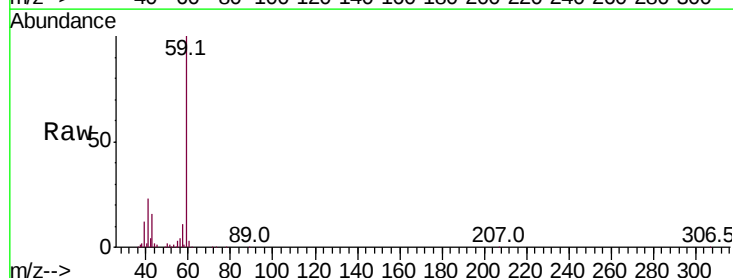
Acq: 04 Sep 2020 16:12

Tgt Ion: 59 Resp: 1538950

Ion Ratio Lower Upper

59 100

57 10.8 7.6 11.4



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.22

500000

400000

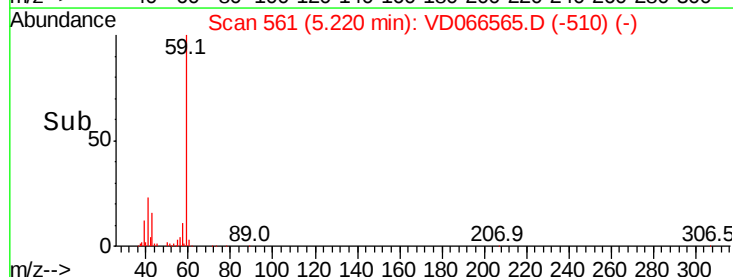
300000

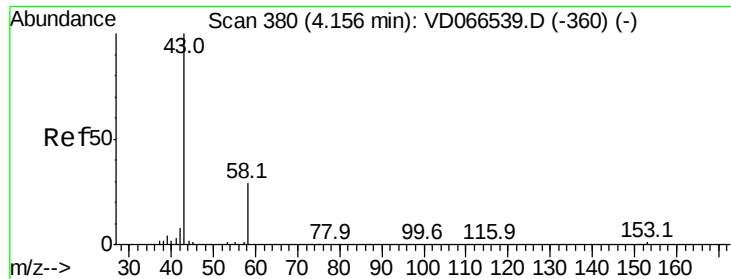
200000

100000

0

Time-->





#16

Acetone

Concen: 36.870 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

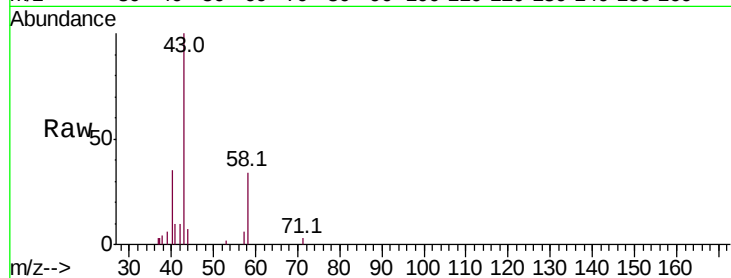
1495-96

Tot Ion: 43 Resp: 23766

Ion Ratio Lower Upper

43 100

58 34.2 22.9 34.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

8000

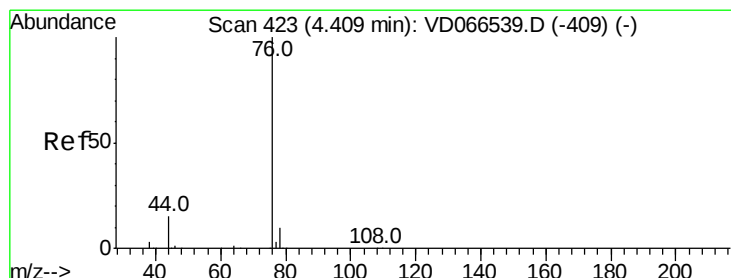
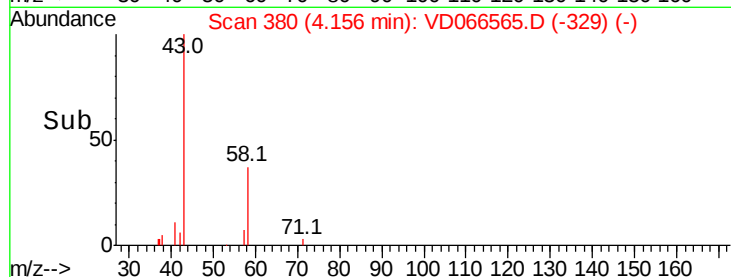
6000

4000

2000

0

Time--> 4.05 4.10 4.15 4.20 4.25



#17

Carbon Disulfide

Concen: 1.674 ug/l

RT: 4.41 min Scan# 424

Delta R.T. 0.01 min

Lab File: VD066565.D

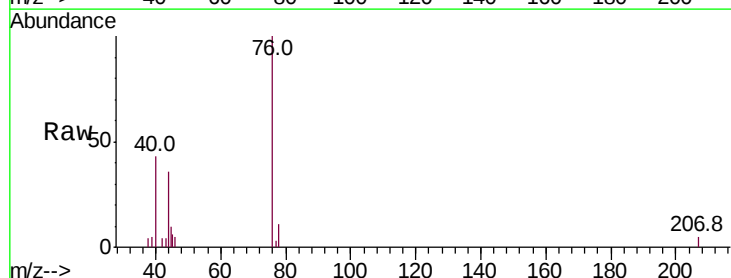
Acq: 04 Sep 2020 16:12

Tgt Ion: 76 Resp: 16058

Ion Ratio Lower Upper

76 100

78 10.6 7.6 11.4



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

6000

5000

4000

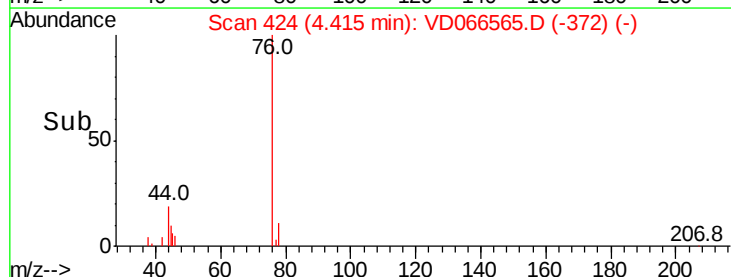
3000

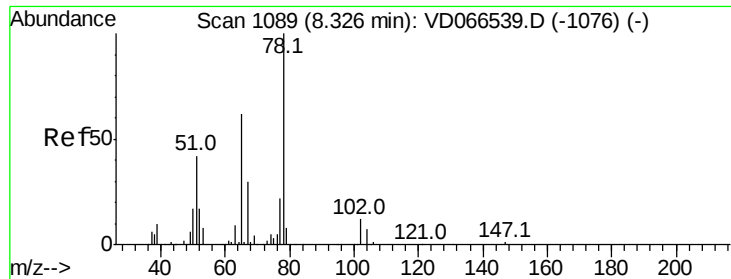
2000

1000

0

Time--> 4.30 4.40 4.50





#33

1,2-Dichloroethane-d4

Concen: 65.833 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

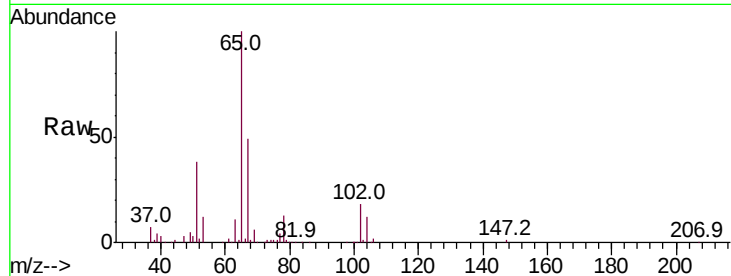
1495-96

Tot Ion: 65 Resp: 230630

Ion Ratio Lower Upper

65 100

67 49.7 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

100000

80000

60000

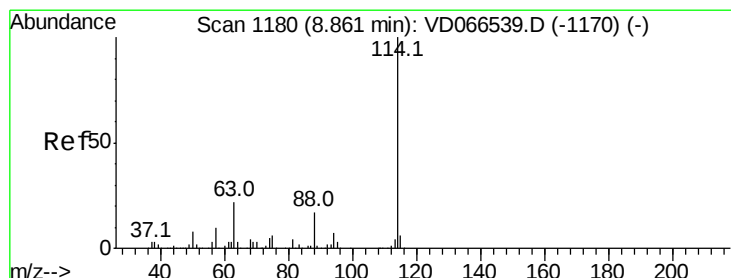
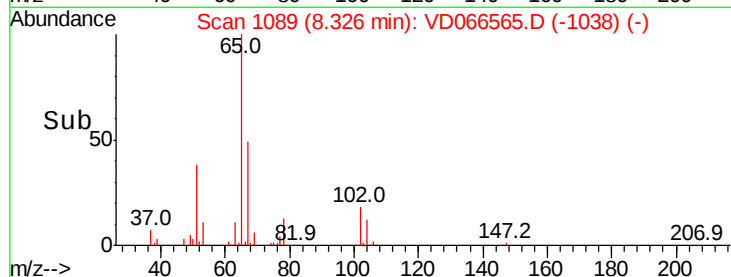
40000

20000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

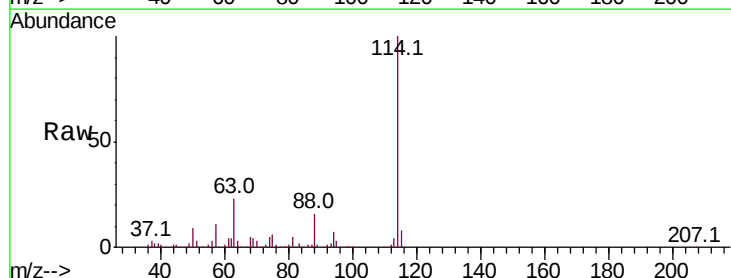
Tgt Ion: 114 Resp: 545074

Ion Ratio Lower Upper

114 100

63 22.9 0.0 43.2

88 15.7 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.86

300000

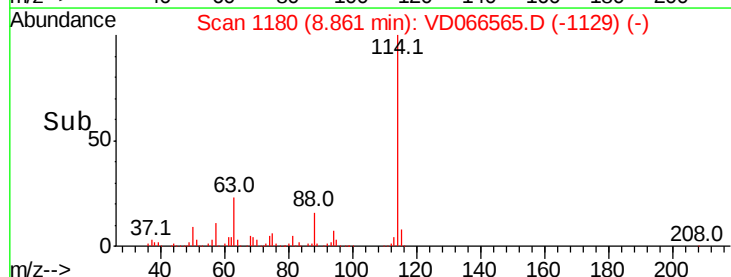
200000

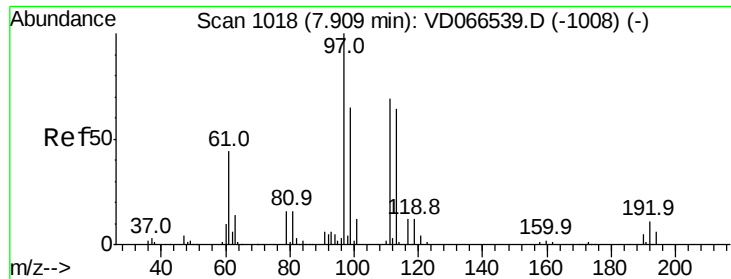
100000

0

8.80 8.90 9.00

Time-->

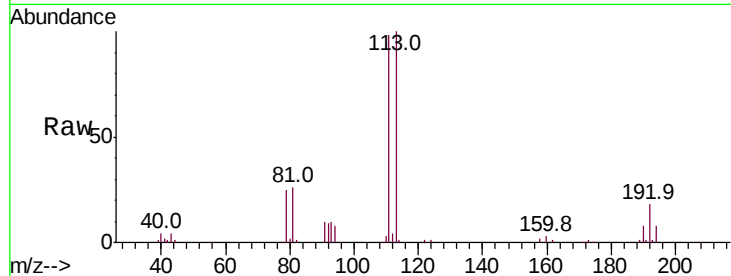




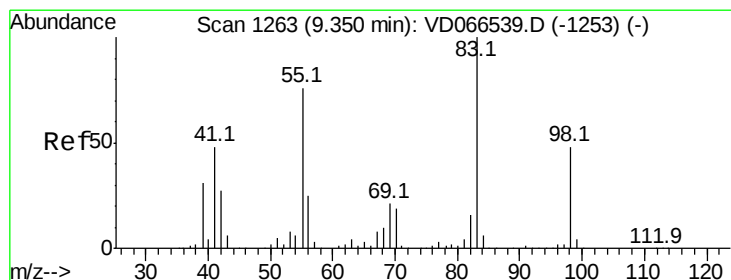
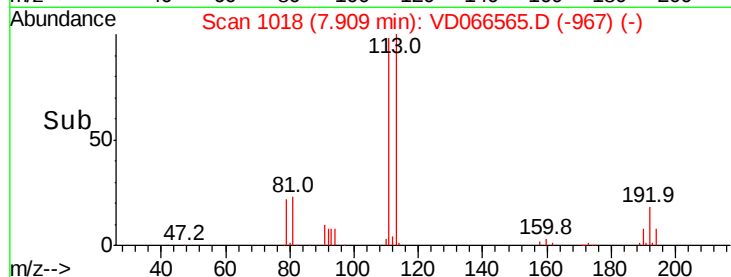
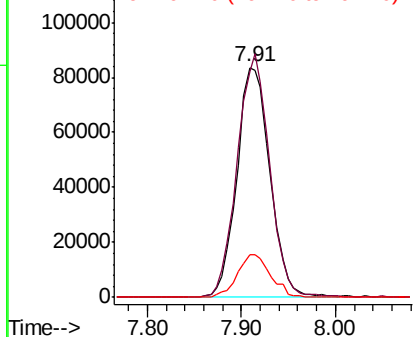
#35
Dibromofluoromethane
Concen: 55.520 ug/l
RT: 7.91 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VD066565.D
Acq: 04 Sep 2020 16:12

Instrument :
MSVOA_D
ClientSampleId :
1495-96

Tot Ion:113 Resp: 204154
Ion Ratio Lower Upper
113 100
111 104.0 83.2 124.8
192 18.6 13.7 20.5

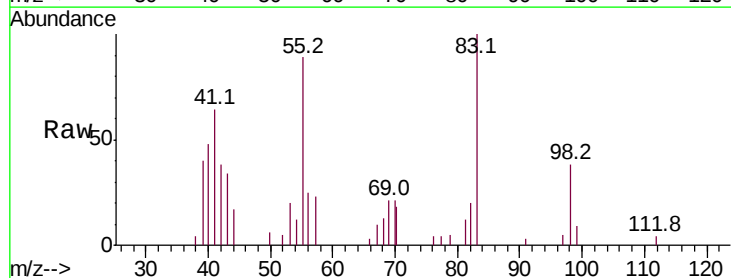


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

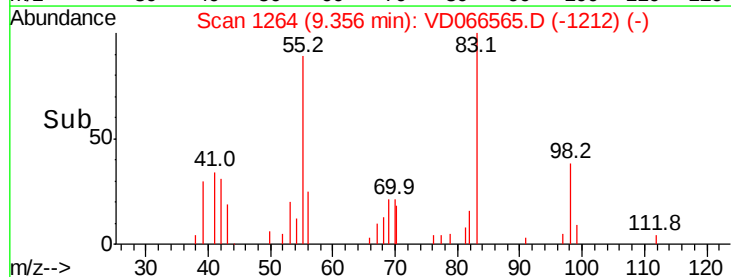
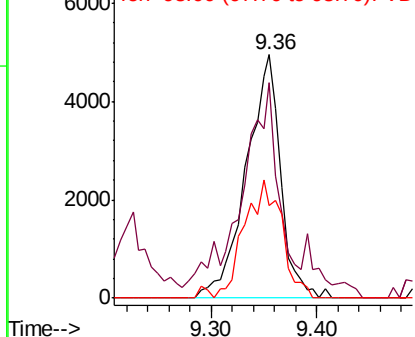


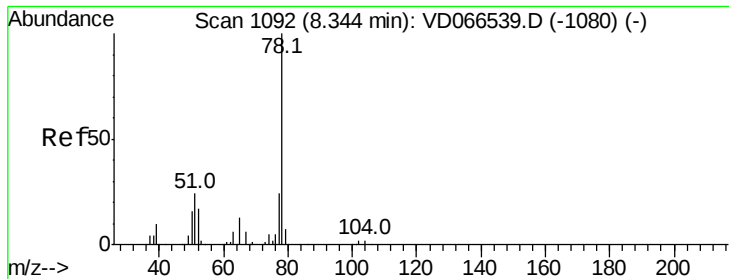
#39
Methylcyclohexane
Concen: 1.770 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.01 min
Lab File: VD066565.D
Acq: 04 Sep 2020 16:12

Tgt Ion: 83 Resp: 11214
Ion Ratio Lower Upper
83 100
55 82.8 60.8 91.2
98 37.8 38.6 58.0#



Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC





#40

Benzene

Concen: 5.996 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. 0.01 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

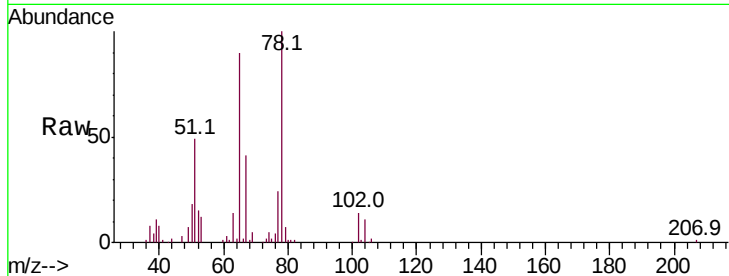
1495-96

Tot Ion: 78 Resp: 93148

Ion Ratio Lower Upper

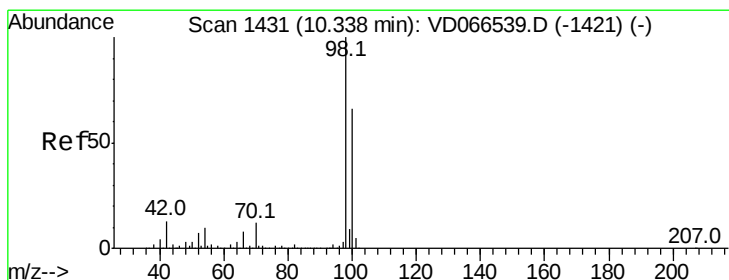
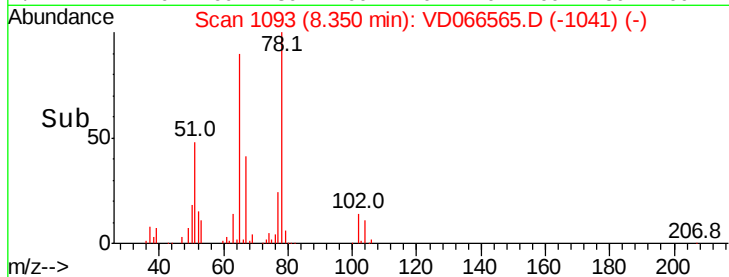
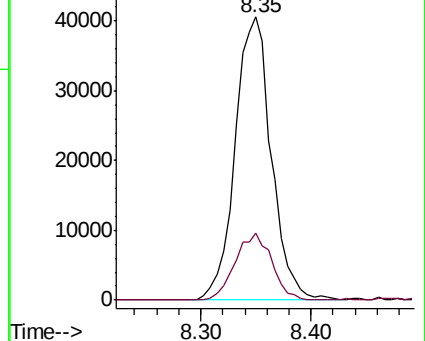
78 100

77 23.9 19.1 28.7



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC



#50

Toluene-d8

Concen: 35.732 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD066565.D

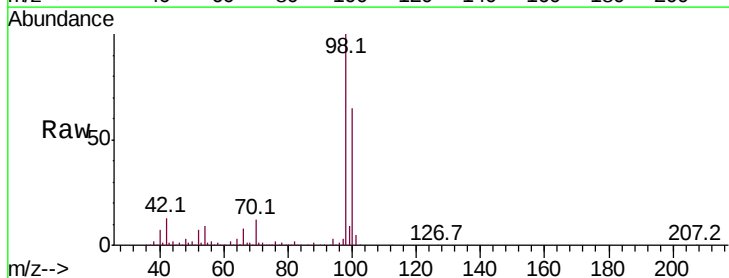
Acq: 04 Sep 2020 16:12

Tgt Ion: 98 Resp: 469616

Ion Ratio Lower Upper

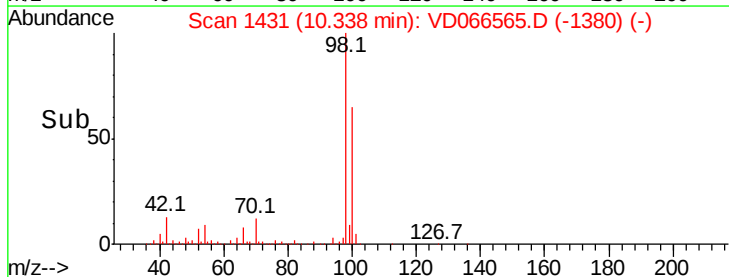
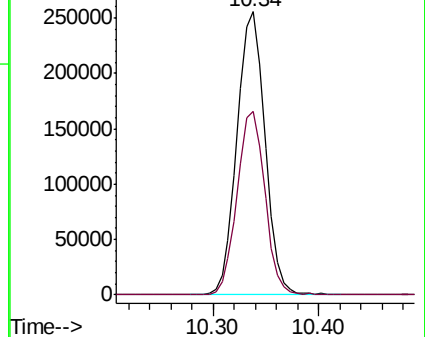
98 100

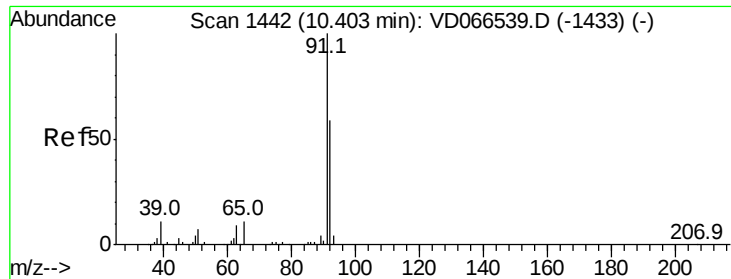
100 64.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC





#52

Toluene

Concen: 13.408 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampled :

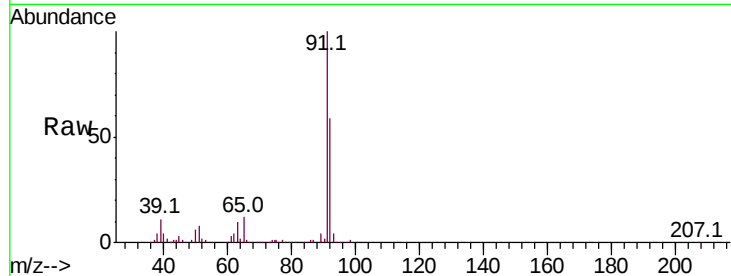
1495-96

Tot Ion: 92 Resp: 131854

Ion Ratio Lower Upper

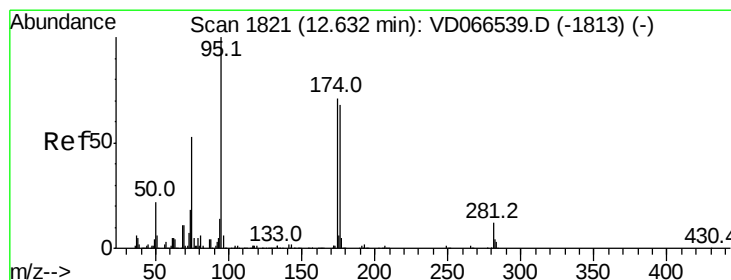
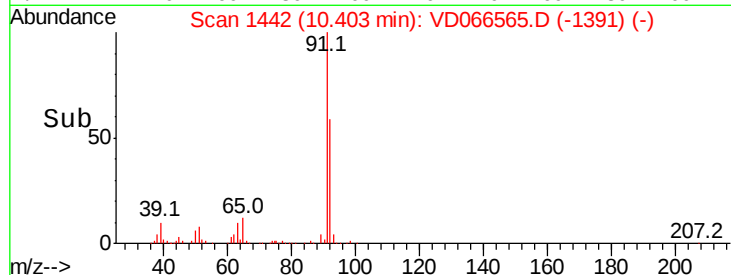
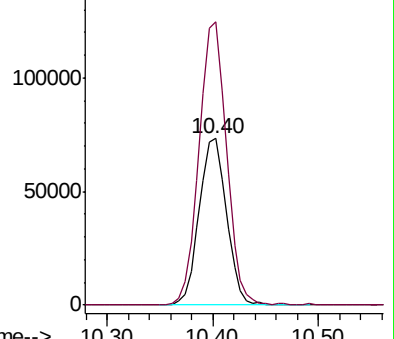
92 100

91 170.7 137.4 206.2



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 13.706 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

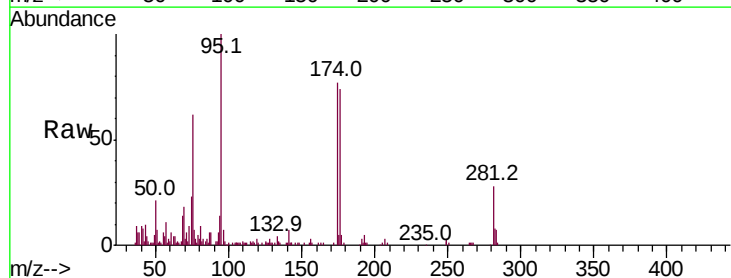
Tgt Ion: 95 Resp: 59730

Ion Ratio Lower Upper

95 100

174 80.2 0.0 155.8

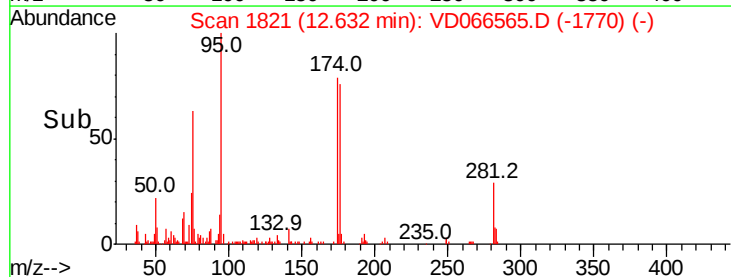
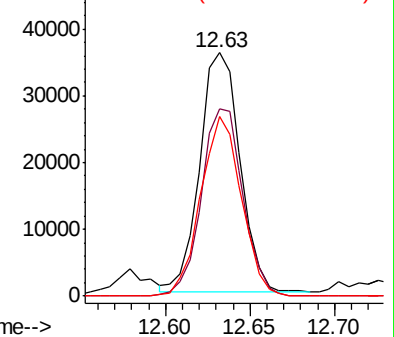
176 75.3 0.0 148.6

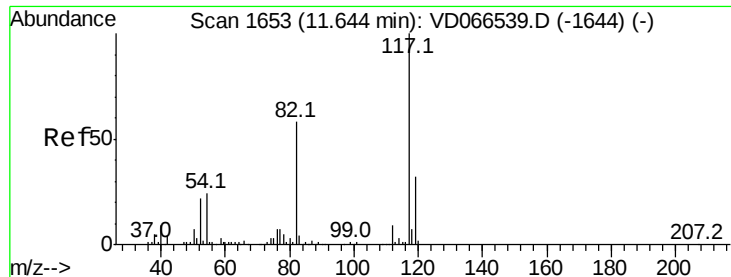


Abundance Ion 94.90 (94.60 to 95.60): VDC

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: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

1495-96

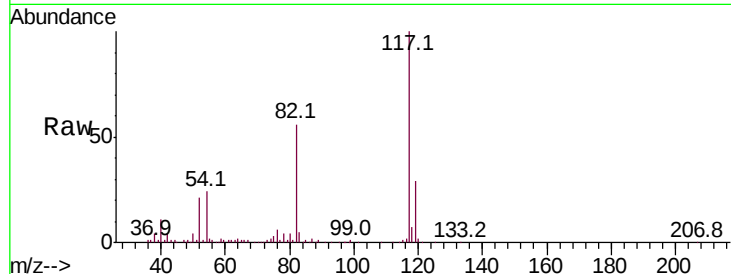
Tot Ion:117 Resp: 256387

Ion Ratio Lower Upper

117 100

82 55.7 46.2 69.2

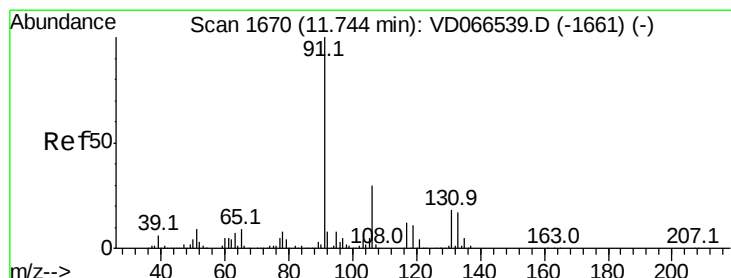
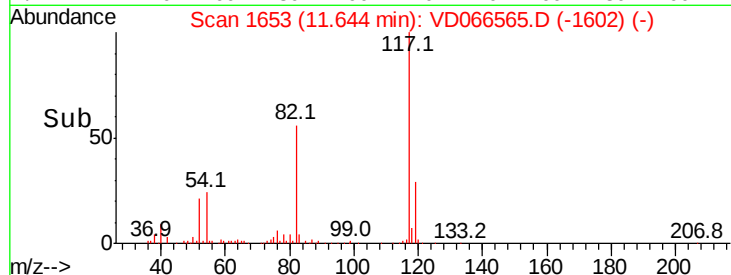
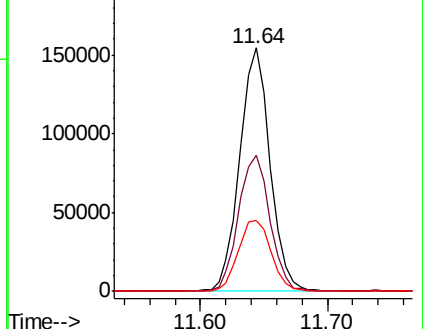
119 28.8 25.8 38.8



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: 7.577 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. 0.00 min

Lab File: VD066565.D

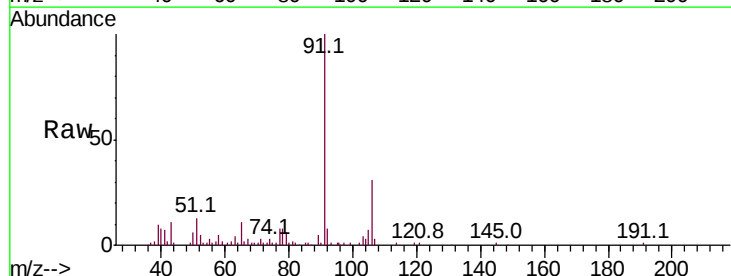
Acq: 04 Sep 2020 16:12

Tgt Ion: 91 Resp: 73626

Ion Ratio Lower Upper

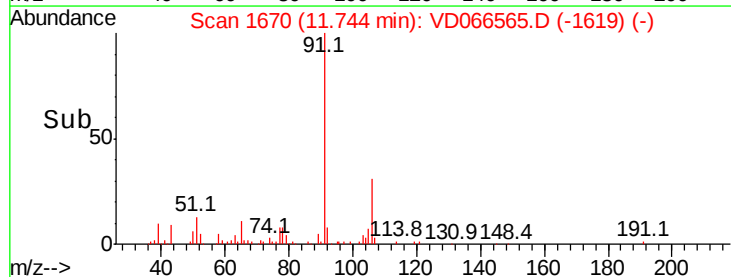
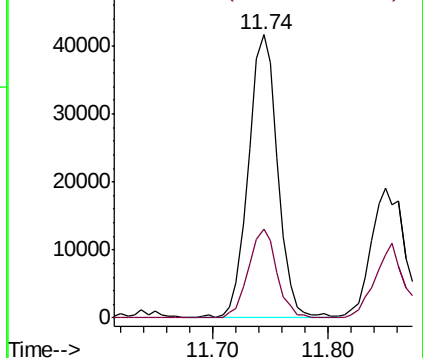
91 100

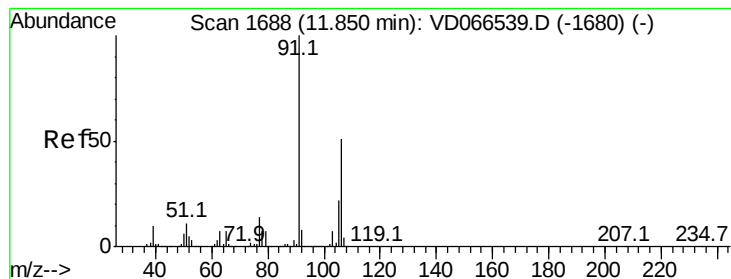
106 31.5 24.3 36.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 5.283 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

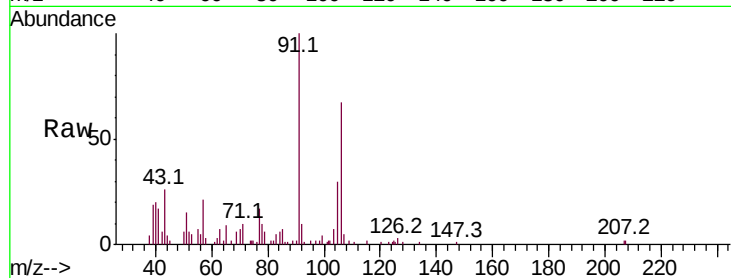
1495-96

Tot Ion:106 Resp: 19060

Ion Ratio Lower Upper

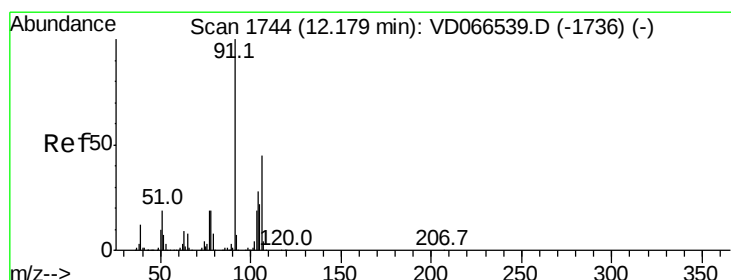
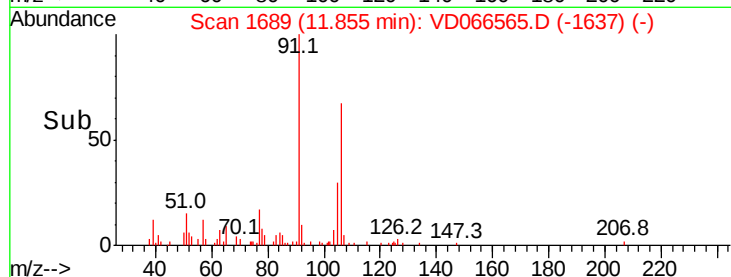
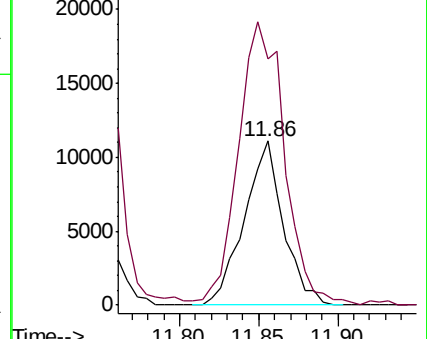
106 100

91 203.0 162.4 243.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC



#69

o-Xylene

Concen: 1.897 ug/l

RT: 12.18 min Scan# 1744

Delta R.T. 0.00 min

Lab File: VD066565.D

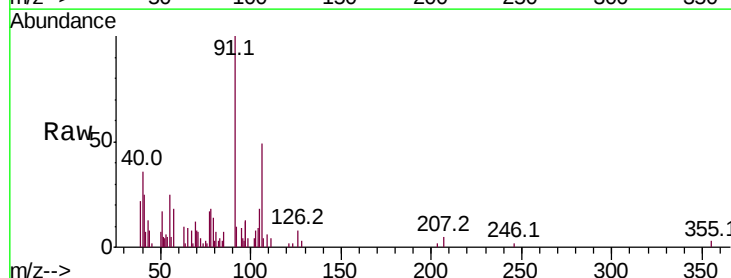
Acq: 04 Sep 2020 16:12

Tgt Ion:106 Resp: 6134

Ion Ratio Lower Upper

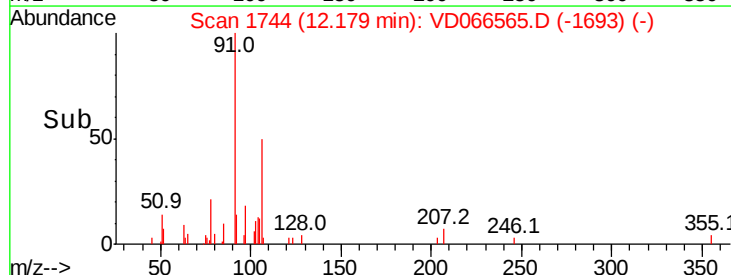
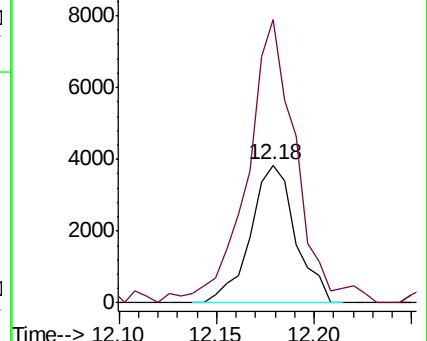
106 100

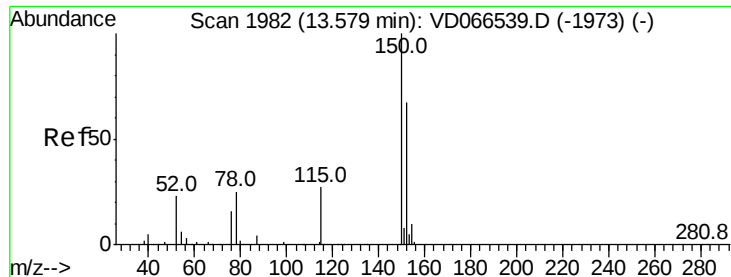
91 223.8 107.9 323.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VDC





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

1495-96

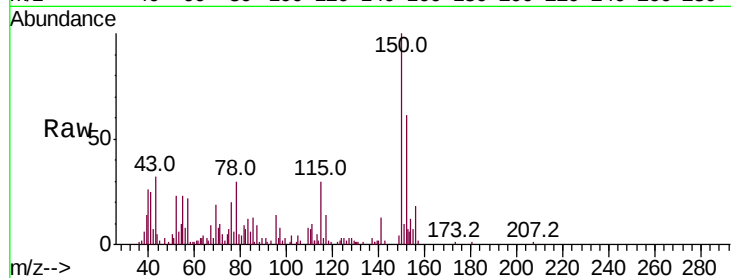
Tot Ion:152 Resp: 21952

Ion Ratio Lower Upper

152 100

115 60.6 30.4 91.2

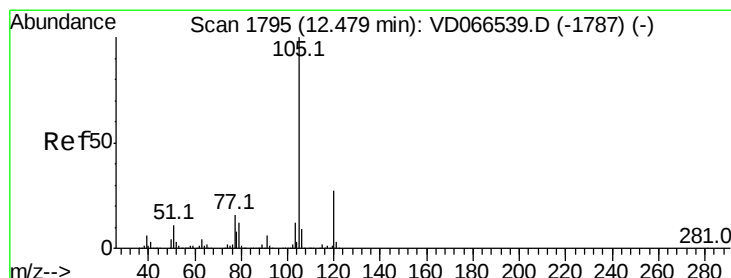
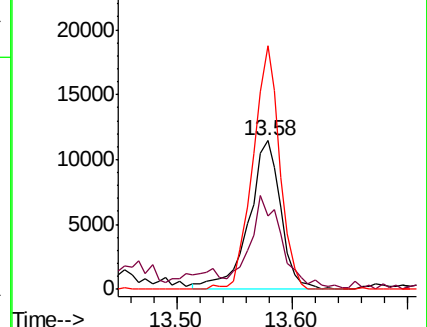
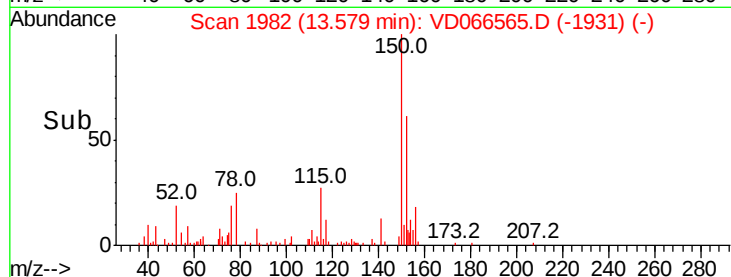
150 137.4 0.0 345.8



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



#73

Isopropylbenzene

Concen: 8.039 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD066565.D

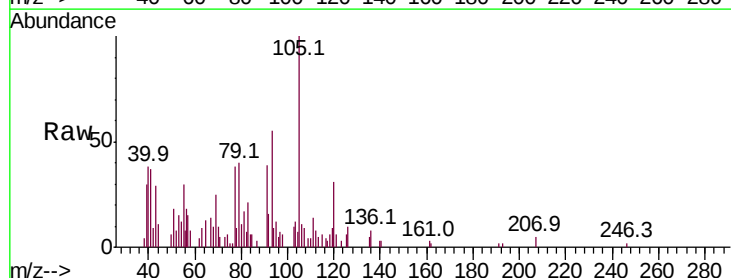
Acq: 04 Sep 2020 16:12

Tgt Ion:105 Resp: 13065

Ion Ratio Lower Upper

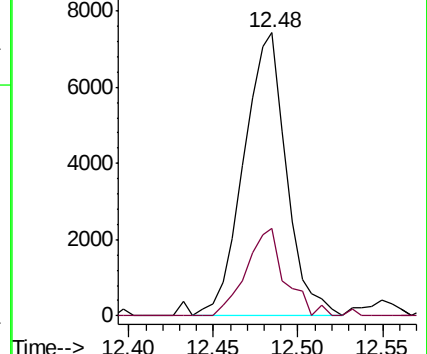
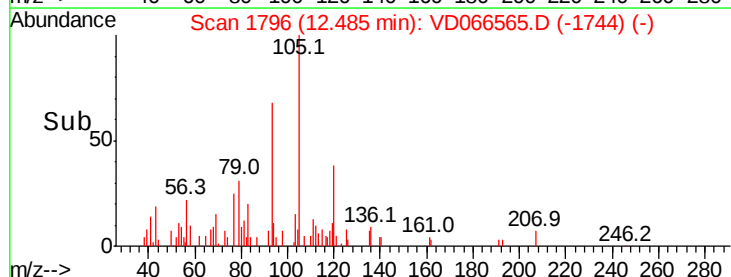
105 100

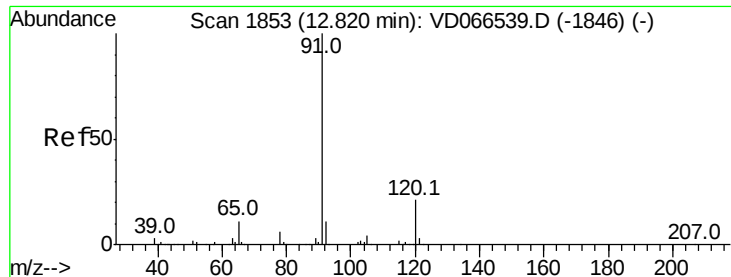
120 28.2 13.0 39.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 4.358 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. 0.00 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

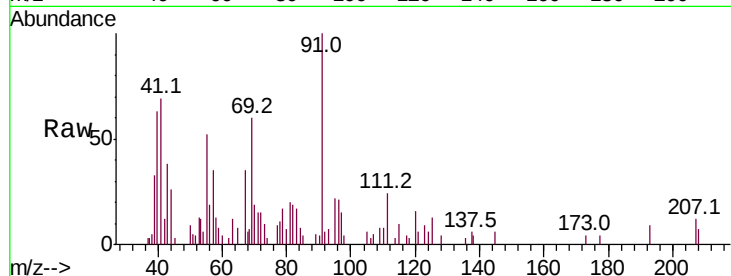
1495-96

Tot Ion: 91 Resp: 8587

Ion Ratio Lower Upper

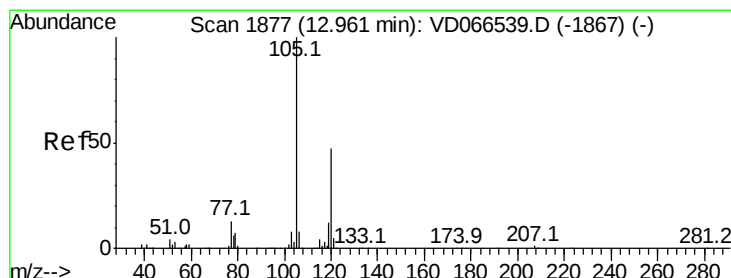
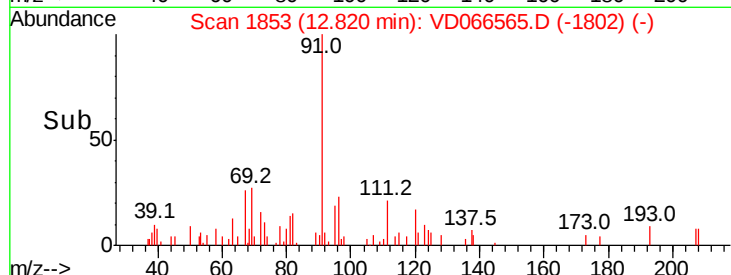
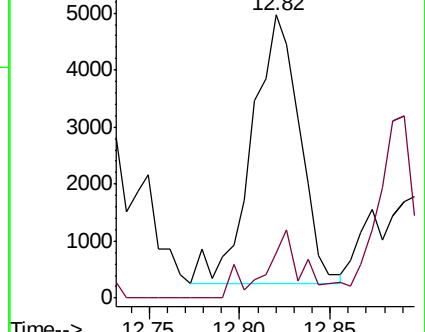
91 100

120 17.4 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 10.375 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD066565.D

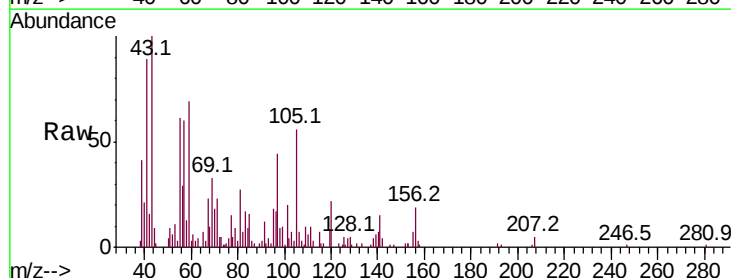
Acq: 04 Sep 2020 16:12

Tgt Ion:105 Resp: 14193

Ion Ratio Lower Upper

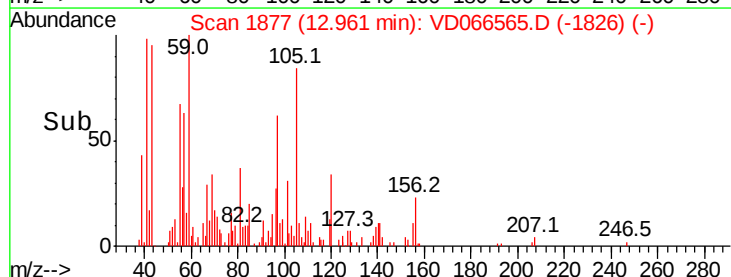
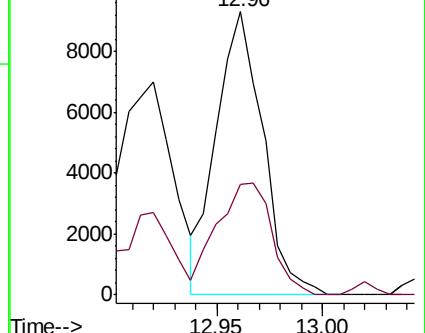
105 100

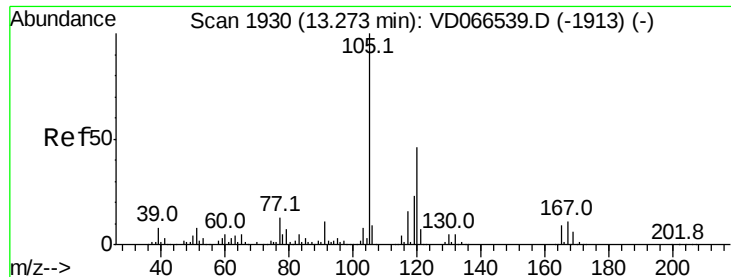
120 46.6 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 27.355 ug/l

RT: 13.27 min Scan# 1929

Delta R.T. -0.01 min

Lab File: VD066565.D

Acq: 04 Sep 2020 16:12

Instrument :

MSVOA_D

ClientSampleId :

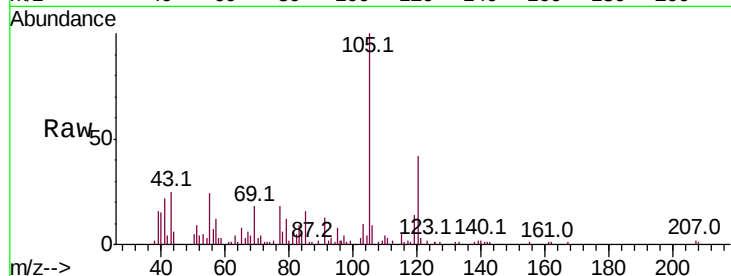
1495-96

Tot Ion:105 Resp: 37257

Ion Ratio Lower Upper

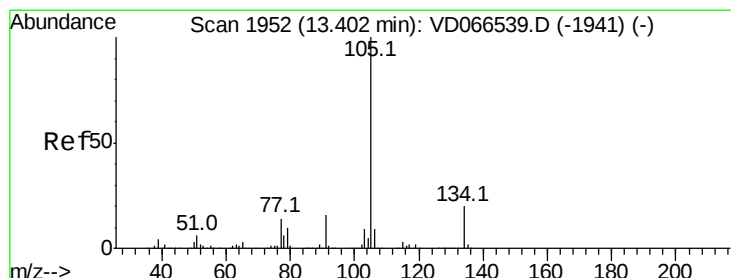
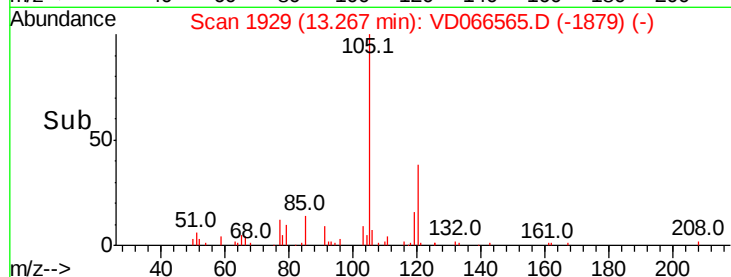
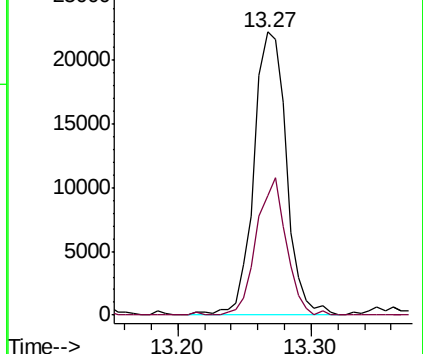
105 100

120 44.5 22.6 67.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 4.773 ug/l

RT: 13.40 min Scan# 1951

Delta R.T. -0.01 min

Lab File: VD066565.D

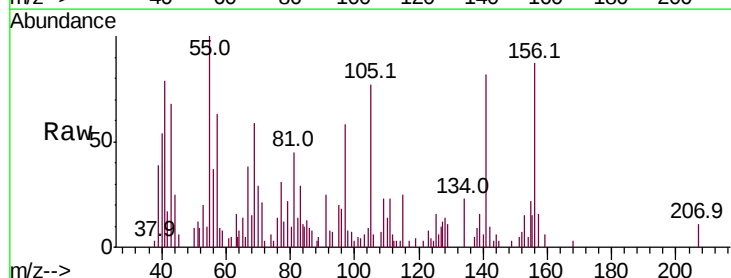
Acq: 04 Sep 2020 16:12

Tgt Ion:105 Resp: 7682

Ion Ratio Lower Upper

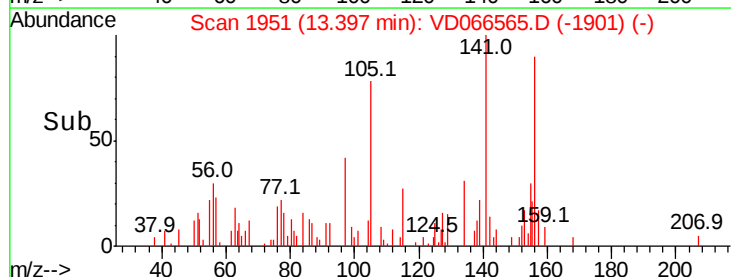
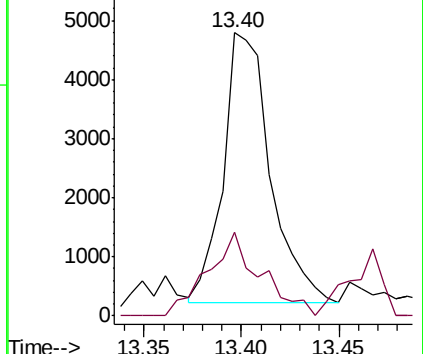
105 100

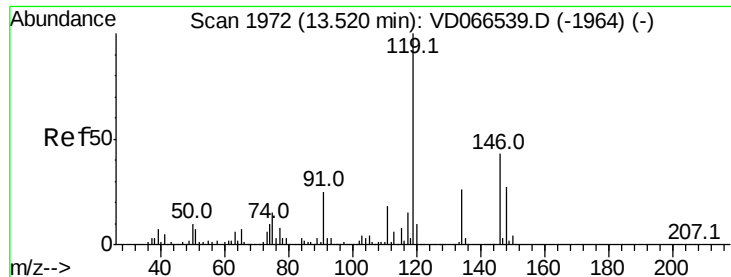
134 34.7 9.8 29.5#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

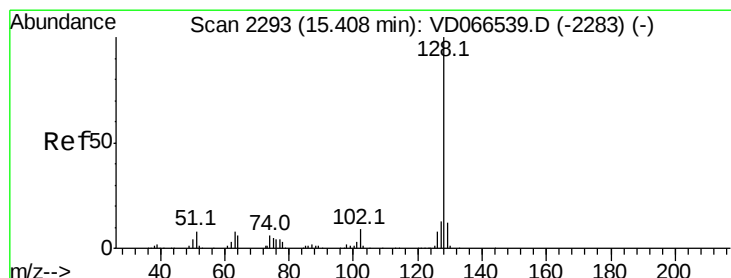
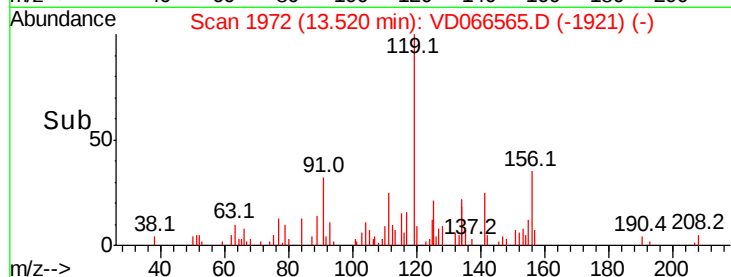
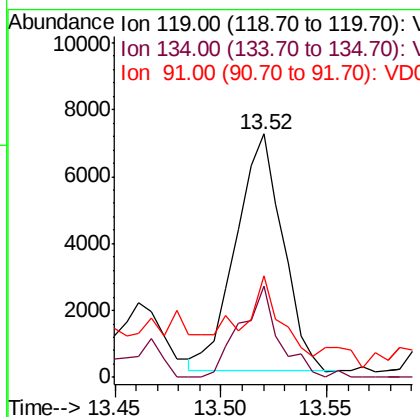
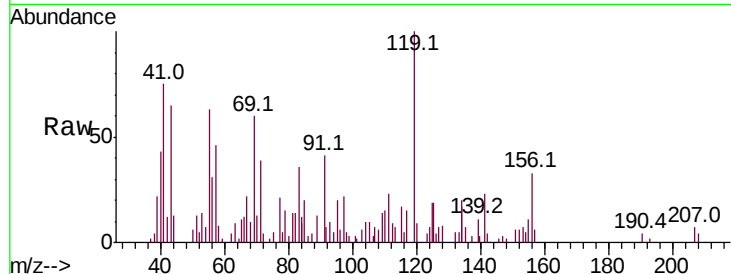




#86
 p-Isopropyltoluene
 Concen: 7.561 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD066565.D
 Acq: 04 Sep 2020 16:12

Instrument :
 MSVOA_D
 ClientSampleId :
 1495-96

Tot Ion:119 Resp: 10953
 Ion Ratio Lower Upper
 119 100
 134 31.8 12.7 38.0
 91 25.2 12.5 37.5



#95
 Naphthalene
 Concen: 171.714 ug/l
 RT: 15.41 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: VD066565.D
 Acq: 04 Sep 2020 16:12

Tgt Ion:128 Resp: 113229
 Ion Ratio Lower Upper
 128 100
 127 14.7 10.7 16.1
 129 12.2 9.1 13.7

