

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY060320\
 Data File : VY002826.D
 Acq On : 03 Jun 2020 12:29
 Operator : SY/MD
 Sample : L2840-03
 Misc : 5.34G/5ML/MSVOA Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DRUM-OIL

Quant Time: Jun 03 17:10:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y052720S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 13:13:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	265603	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.69	114	429192	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.49	117	365347	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.42	152	130858	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.15	65	120312	52.17	ug/l	0.00
Spiked Amount			Recovery	=	104.34%	
35) Dibromofluoromethane	7.72	113	129700	51.56	ug/l	0.00
Spiked Amount			Recovery	=	103.12%	
50) Toluene-d8	10.18	98	497439	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	12.48	95	142474	40.99	ug/l	0.00
Spiked Amount			Recovery	=	81.98%	

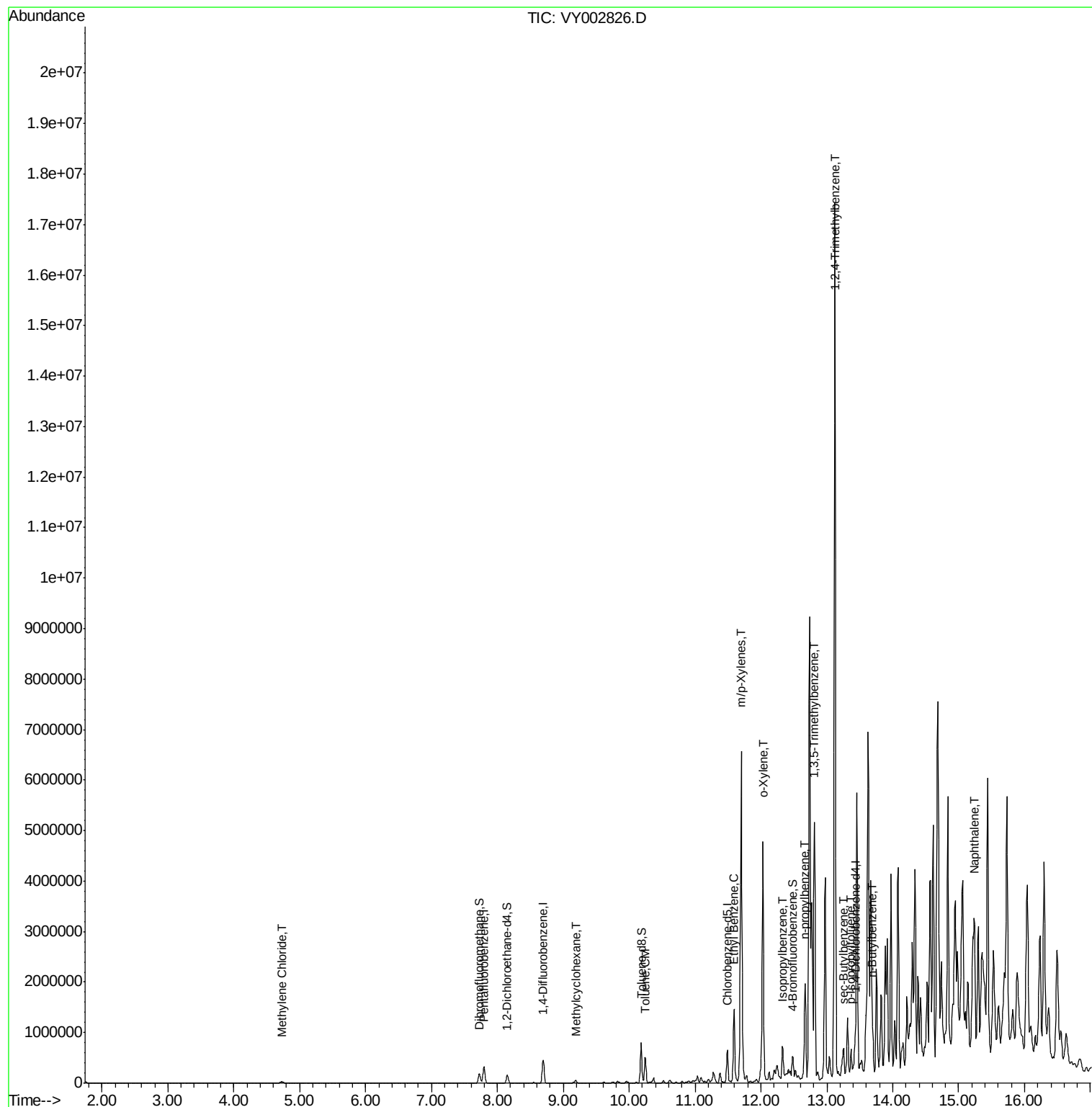
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Methylene Chloride	4.72	84	24067	9.107	ug/l	98
39) Methylcyclohexane	9.19	83	24227	5.084	ug/l	94
52) Toluene	10.24	92	218613	31.282	ug/l	100
67) Ethyl Benzene	11.60	91	1029574	82.243	ug/l	100
68) m/p-Xylenes	11.70	106	2023289	416.855	ug/l	99
69) o-Xylene	12.03	106	1274421	278.132	ug/l	99
73) Isopropylbenzene	12.33	105	408497	48.712	ug/l	100
78) n-propylbenzene	12.67	91	1493266	154.156	ug/l	100
80) 1,3,5-Trimethylbenzene	12.81	105	2374853	339.173	ug/l	100
84) 1,2,4-Trimethylbenzene	13.12	105	9202692	1307.124	ug/l	96
85) sec-Butylbenzene	13.25	105	335383	39.273	ug/l	80
86) p-Isopropyltoluene	13.37	119	215874	27.167	ug/l	100
89) n-Butylbenzene	13.70	91	449781	62.345	ug/l #	72
95) Naphthalene	15.23	128	1861951	328.448	ug/l	98

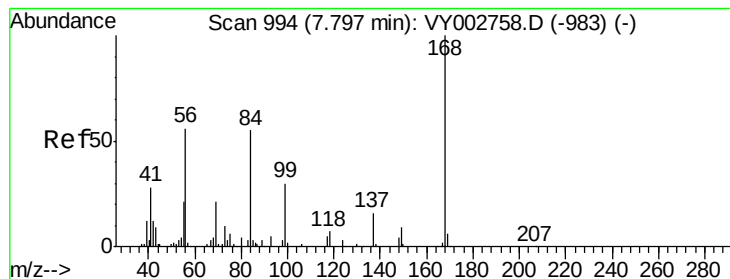
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

Instrument :

MSVOA_Y

ClientSampled :

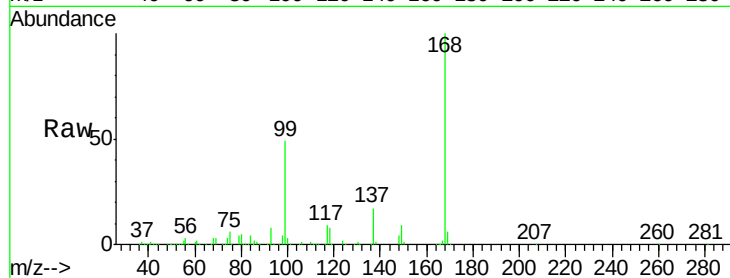
DRUM-OIL

Tot Ion:168 Resp: 265603

Ion Ratio Lower Upper

168 100

99 49.5 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VY002758.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY002758.D (-983) (-)

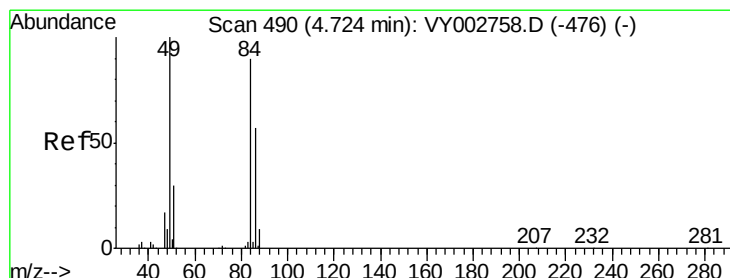
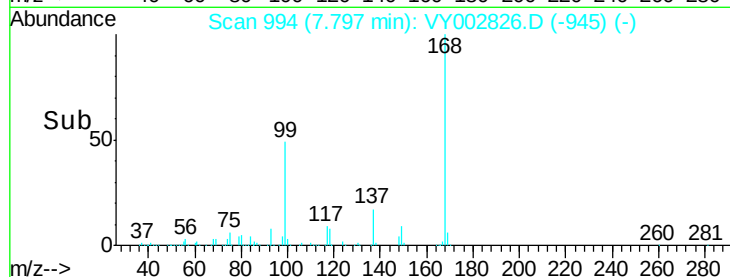
7.80

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 9.107 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.00 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

Tgt Ion: 84 Resp: 24067

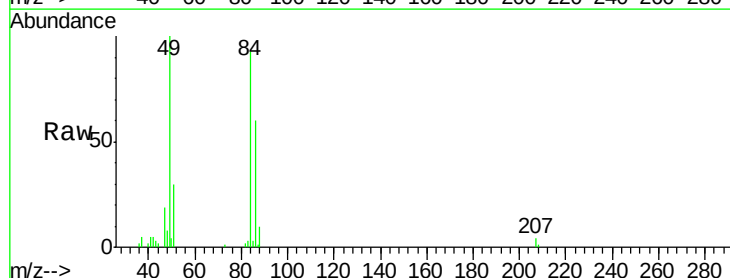
Ion Ratio Lower Upper

84 100

49 107.5 88.5 132.7

51 32.3 26.8 40.2

86 64.2 50.6 75.8



Abundance Ion 83.90 (83.60 to 84.60): VY002758.D (-476) (-)

Ion 48.90 (48.60 to 49.60): VY002758.D (-476) (-)

Ion 50.90 (50.60 to 51.60): VY002758.D (-476) (-)

Ion 85.90 (85.60 to 86.60): VY002758.D (-476) (-)

4.72

12000

10000

8000

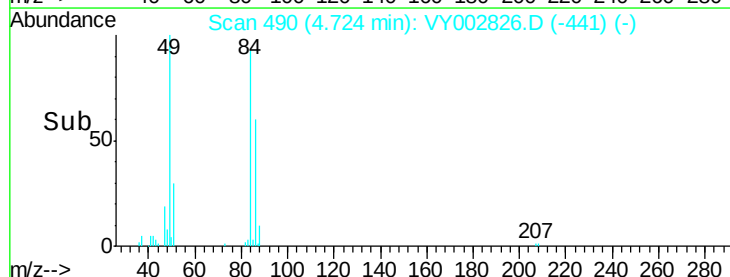
6000

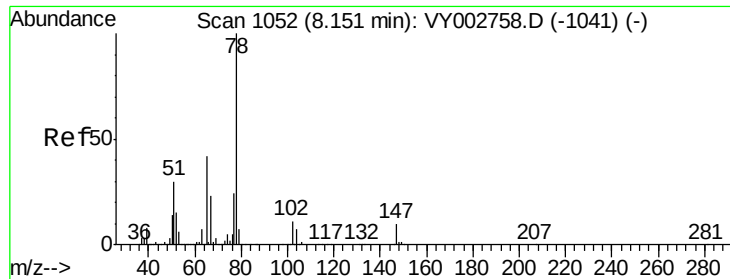
4000

2000

0

Time-->

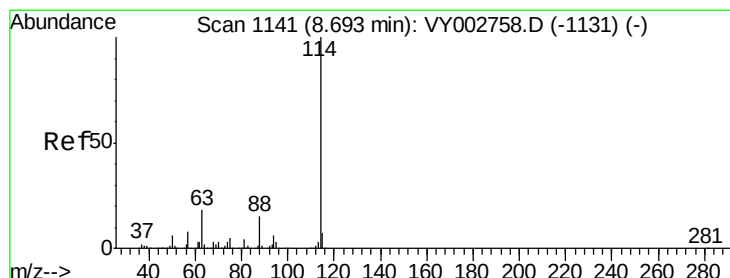
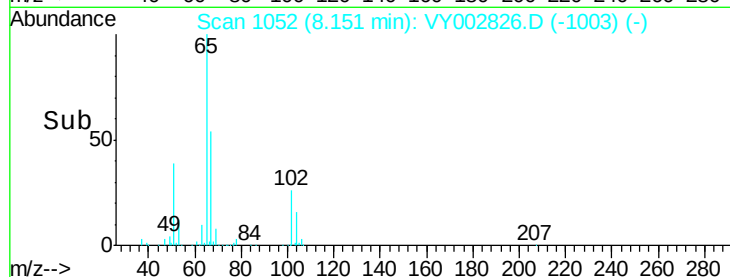
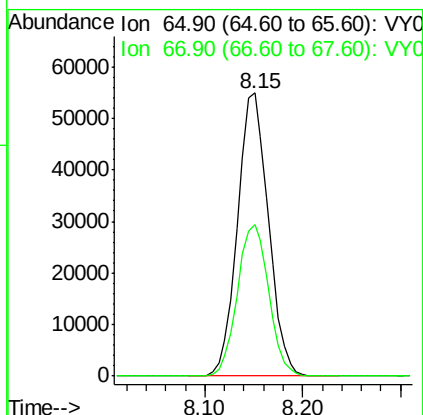
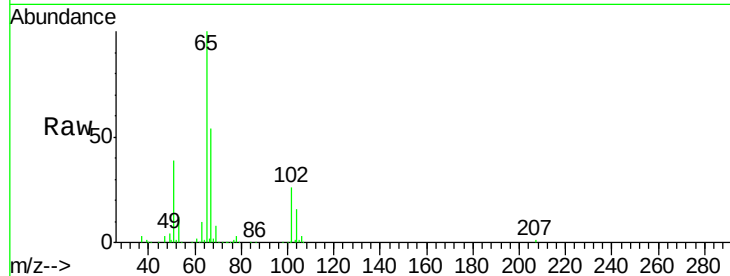




#33
 1,2-Dichloroethane-d4
 Concen: 52.169 ug/l
 RT: 8.15 min Scan# 1052
 Delta R.T. 0.00 min
 Lab File: VY002826.D
 Acq: 03 Jun 2020 12:29

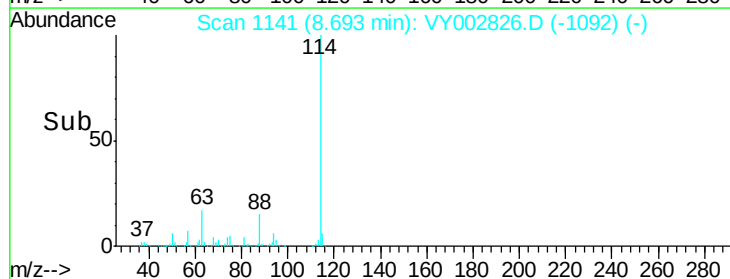
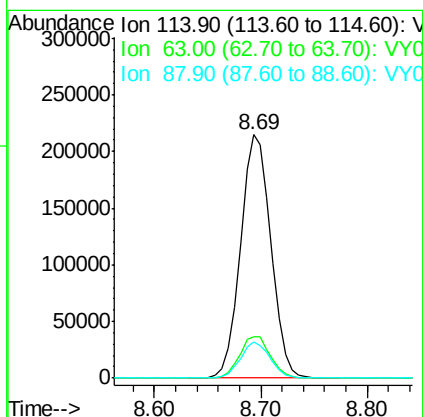
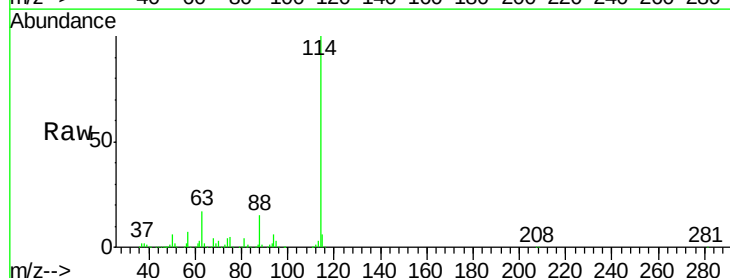
Instrument :
 MSVOA_Y
 ClientSampleId :
 DRUM-OIL

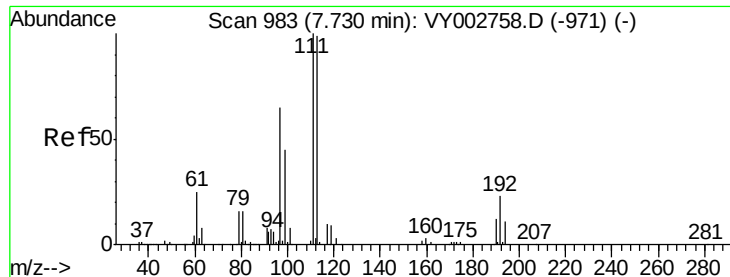
Tot Ion: 65 Resp: 120312
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.69 min Scan# 1141
 Delta R.T. 0.00 min
 Lab File: VY002826.D
 Acq: 03 Jun 2020 12:29

Tgt Ion: 114 Resp: 429192
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 35.2
 88 15.2 0.0 29.2

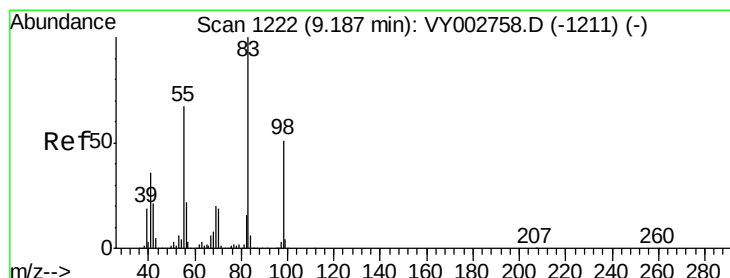
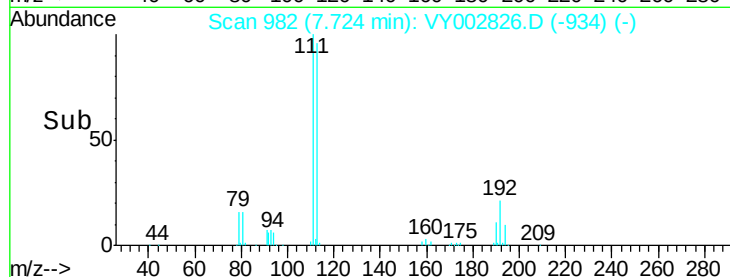
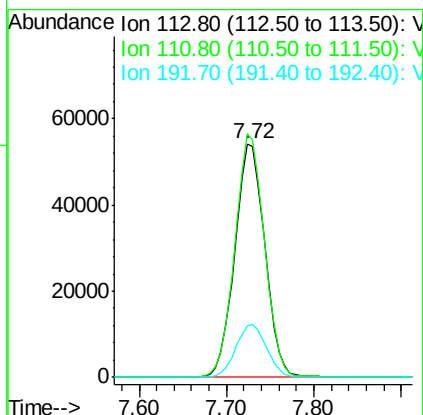
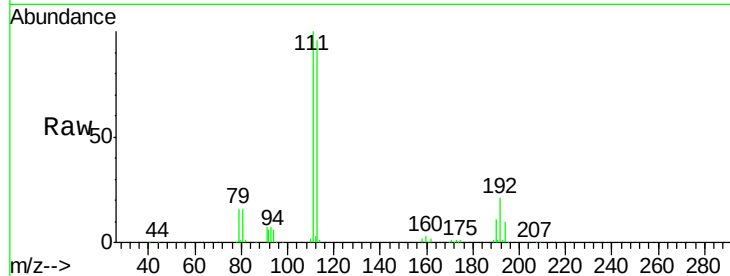




#35
Dibromofluoromethane
Concen: 51.565 ug/l
RT: 7.72 min Scan# 982
Delta R.T. -0.01 min
Lab File: VY002826.D
Acq: 03 Jun 2020 12:29

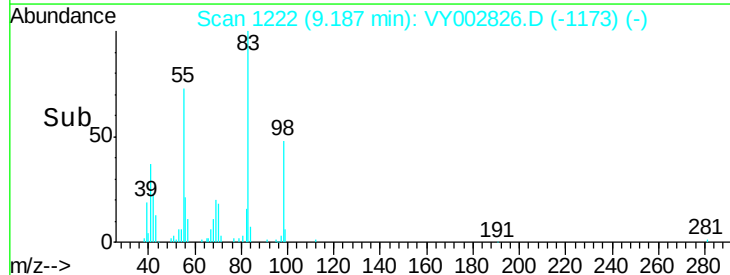
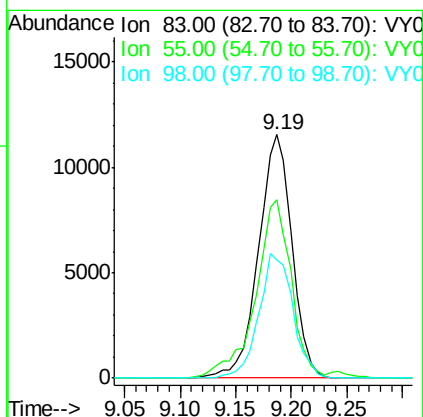
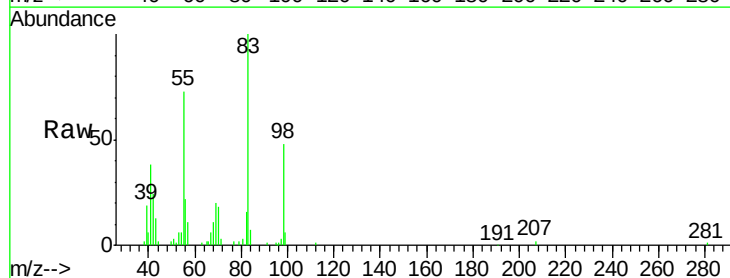
Instrument :
MSVOA_Y
ClientSampleId :
DRUM-OIL

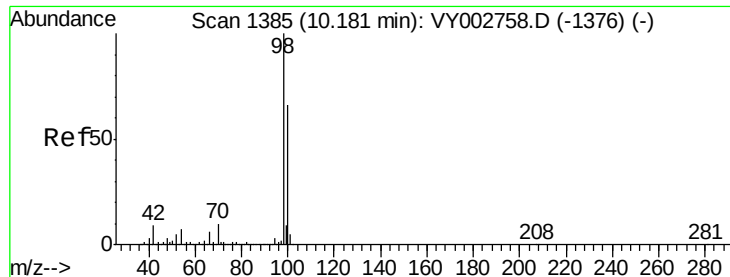
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.0	123.0
192	23.0	18.9	28.3



#39
Methylcyclohexane
Concen: 5.084 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. 0.00 min
Lab File: VY002826.D
Acq: 03 Jun 2020 12:29

Tgt Ion	Ratio	Lower	Upper
83	100		
55	73.1	53.3	79.9
98	48.5	41.1	61.7

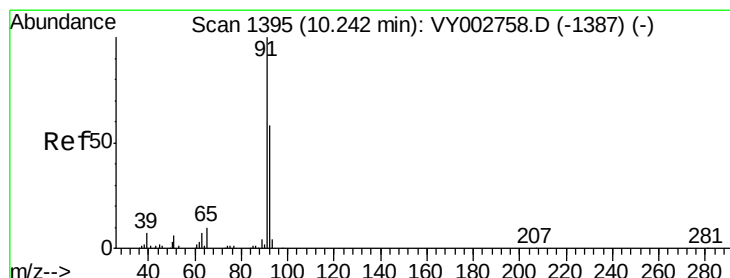
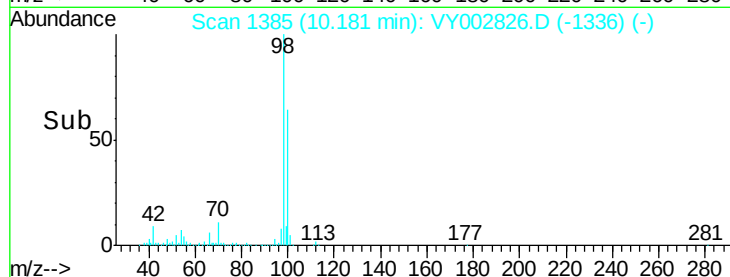
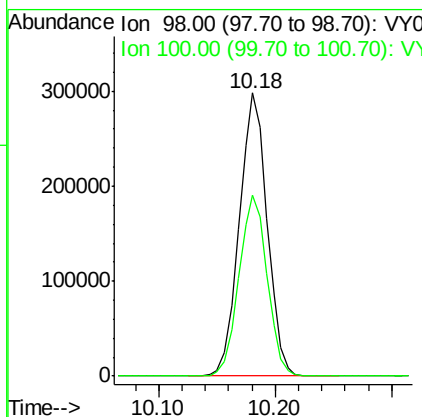
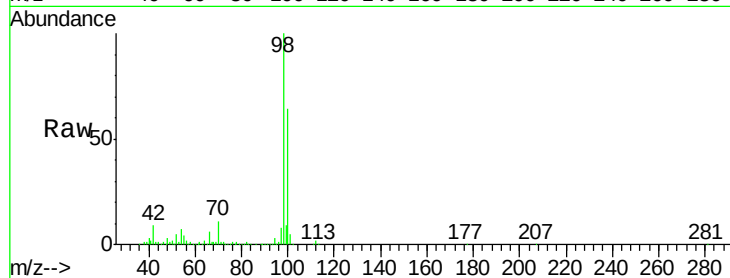




#50
Toluene-d8
Concen: 48.913 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VY002826.D
Acq: 03 Jun 2020 12:29

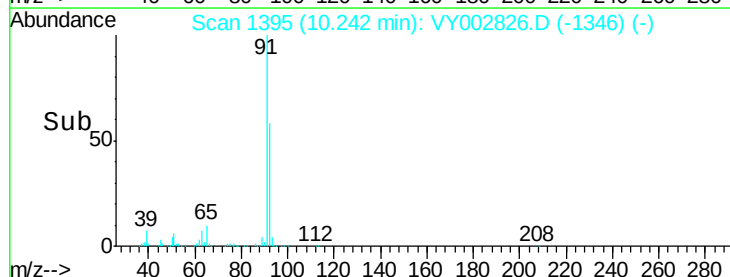
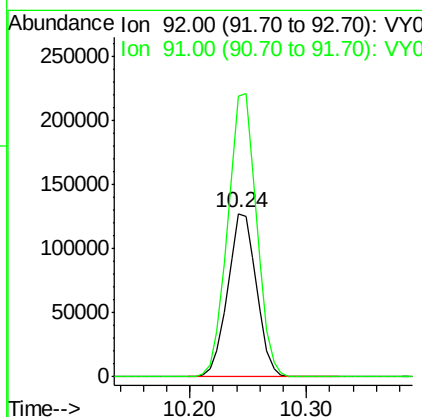
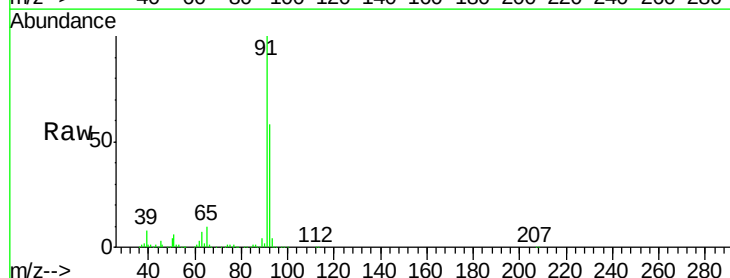
Instrument :
MSVOA_Y
ClientSampleId :
DRUM-OIL

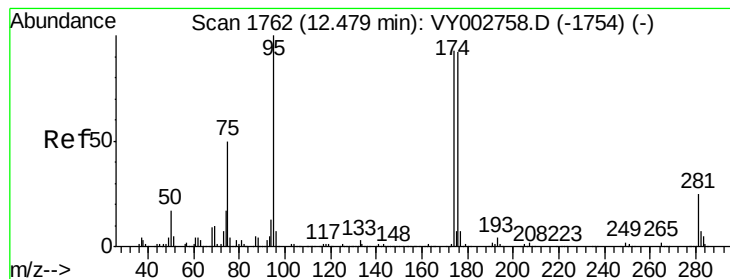
Tot Ion: 98 Resp: 497439
Ion Ratio Lower Upper
98 100
100 64.7 52.2 78.2



#52
Toluene
Concen: 31.282 ug/l
RT: 10.24 min Scan# 1395
Delta R.T. 0.00 min
Lab File: VY002826.D
Acq: 03 Jun 2020 12:29

Tgt Ion: 92 Resp: 218613
Ion Ratio Lower Upper
92 100
91 173.6 138.5 207.7





#62

4-Bromofluorobenzene

Concen: 40.993 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

Instrument :

MSVOA_Y

ClientSampleId :

DRUM-OIL

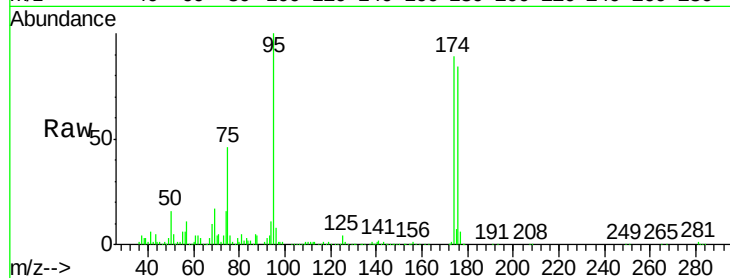
Tot Ion: 95 Resp: 142474

Ion Ratio Lower Upper

95 100

174 92.6 0.0 191.2

176 90.1 0.0 188.8



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): VY0

Ion 175.80 (175.50 to 176.50): VY0

120000

100000

80000

60000

40000

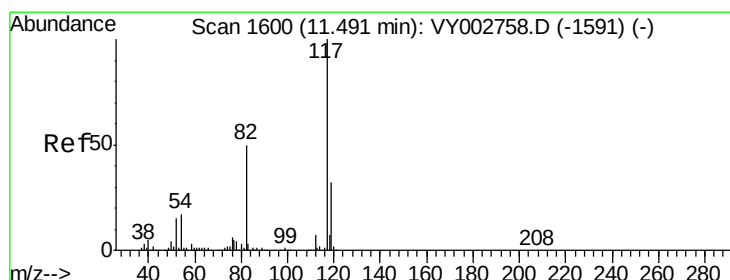
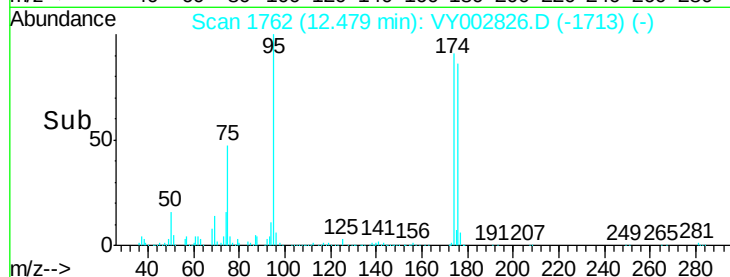
20000

0

12.45

12.50

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

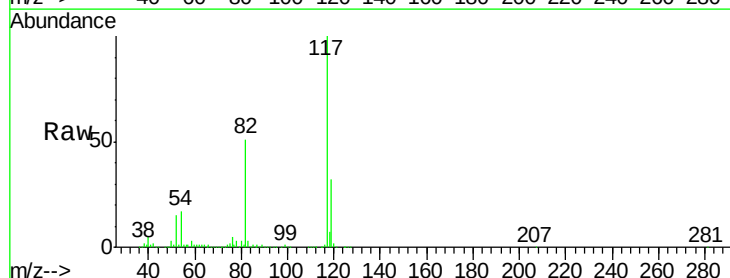
Tgt Ion: 117 Resp: 365347

Ion Ratio Lower Upper

117 100

82 49.8 40.2 60.4

119 31.9 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): VY0

Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): VY0

300000

250000

200000

150000

100000

50000

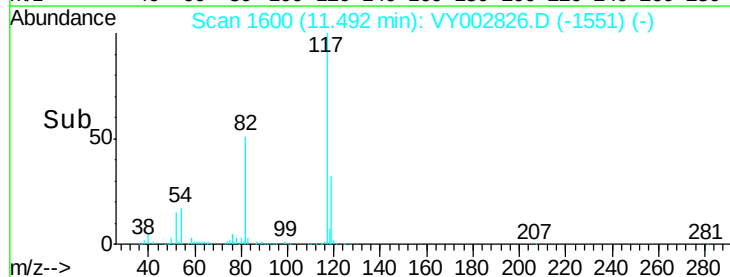
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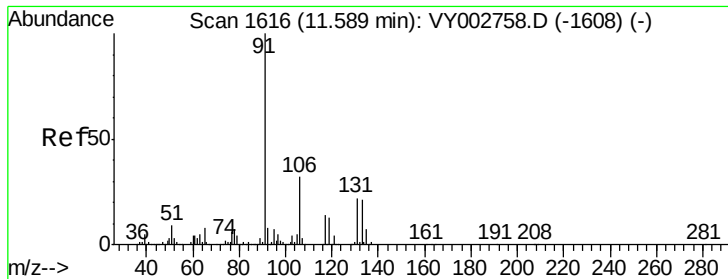
11.40

11.50

11.60

Time-->





#67

Ethyl Benzene

Concen: 82.243 ug/l

RT: 11.60 min Scan# 1617

Delta R.T. 0.01 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

Instrument :

MSVOA_Y

ClientSampleId :

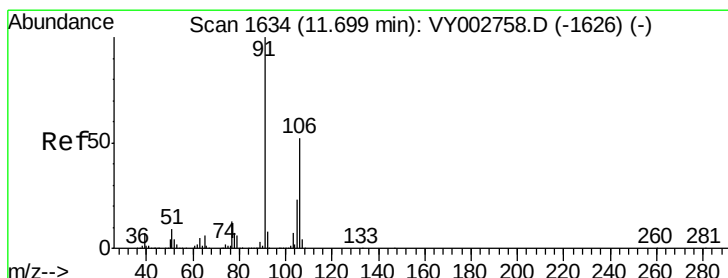
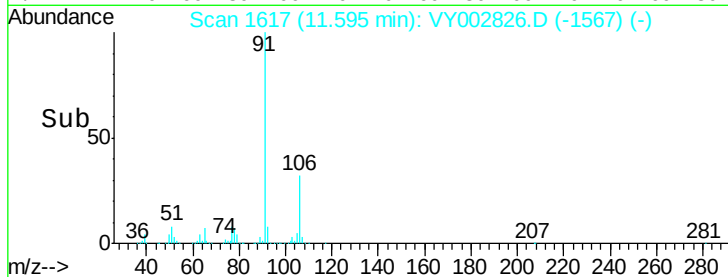
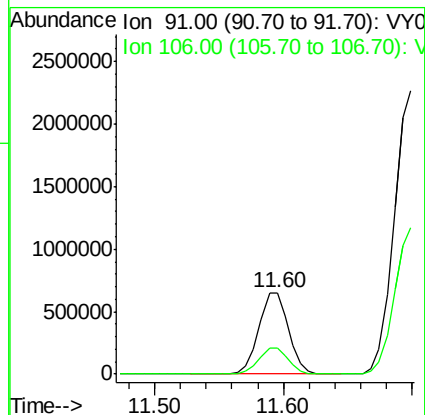
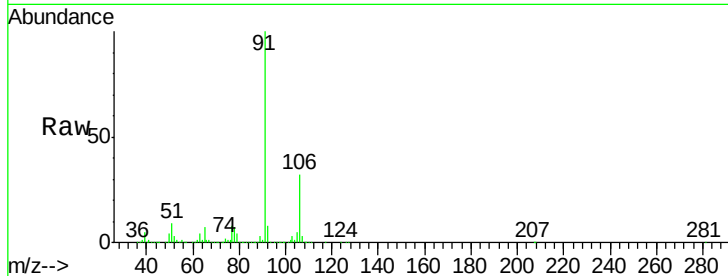
DRUM-OIL

Tot Ion: 91 Resp: 1029574

Ion Ratio Lower Upper

91 100

106 32.0 25.7 38.5



#68

m/p-Xylenes

Concen: 416.855 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VY002826.D

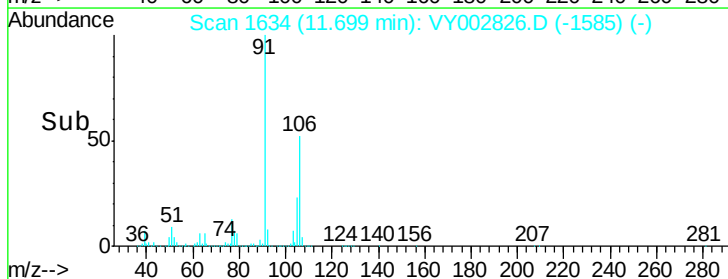
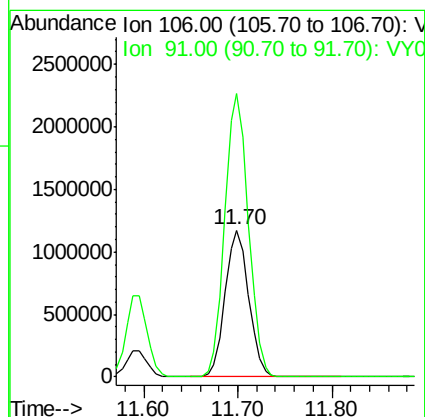
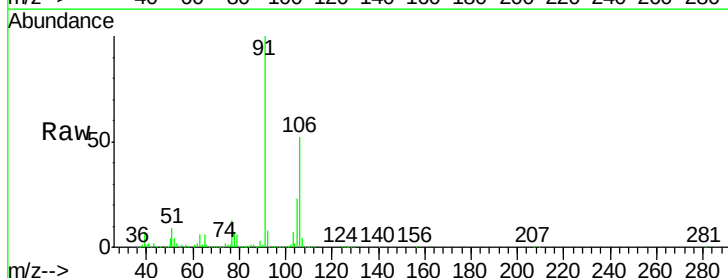
Acq: 03 Jun 2020 12:29

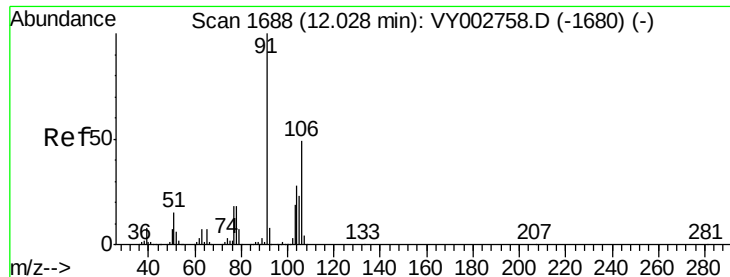
Tgt Ion: 106 Resp: 2023289

Ion Ratio Lower Upper

106 100

91 194.0 156.0 234.0

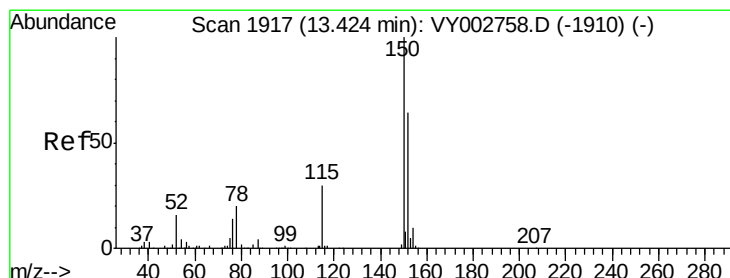
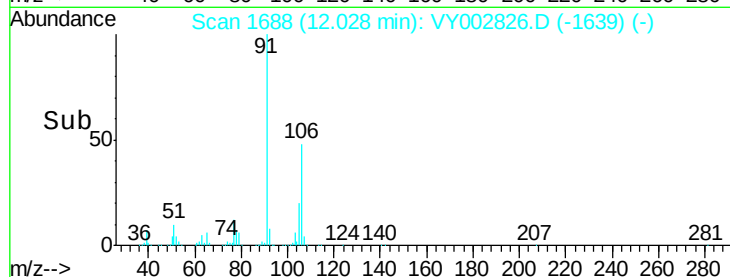
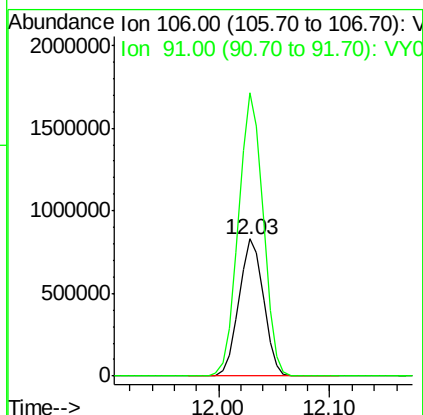
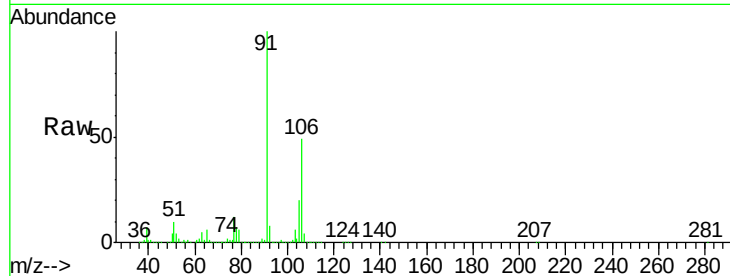




#69
o-Xylene
Concen: 278.132 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. 0.00 min
Lab File: VY002826.D
Acq: 03 Jun 2020 12:29

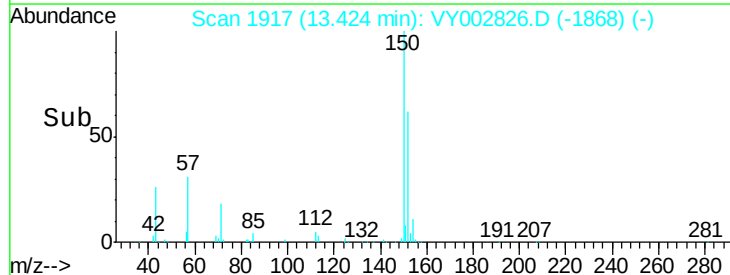
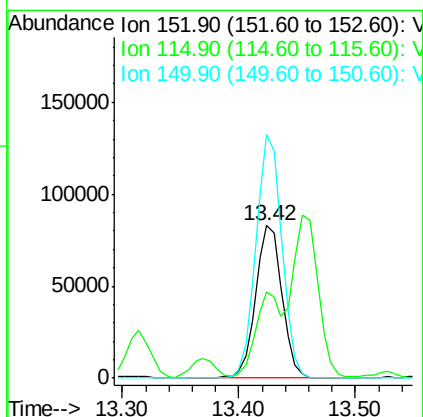
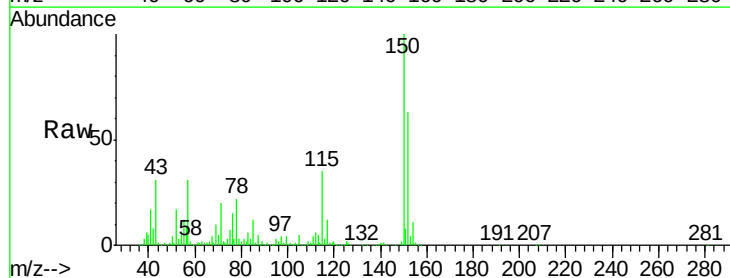
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DRUM-OIL

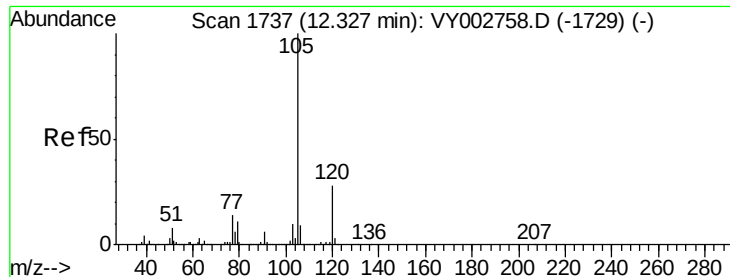
Tot Ion:106 Resp: 1274421
Ion Ratio Lower Upper
106 100
91 206.4 102.4 307.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.42 min Scan# 1917
Delta R.T. 0.00 min
Lab File: VY002826.D
Acq: 03 Jun 2020 12:29

Tgt Ion:152 Resp: 130858
Ion Ratio Lower Upper
152 100
115 51.4 27.0 81.0
150 156.9 0.0 344.8





#73

Isopropylbenzene

Concen: 48.712 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

Instrument :

MSVOA_Y

ClientSampleId :

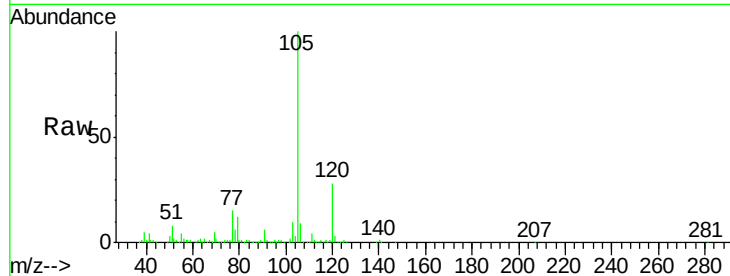
DRUM-OIL

Tot Ion:105 Resp: 408497

Ion Ratio Lower Upper

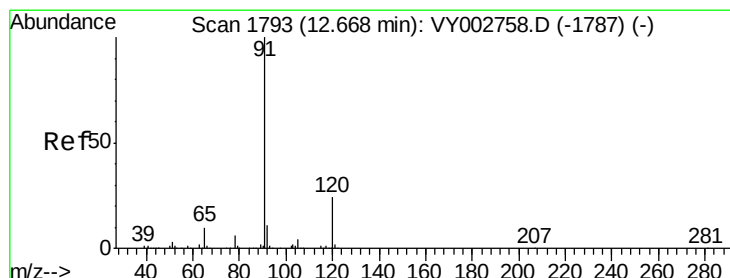
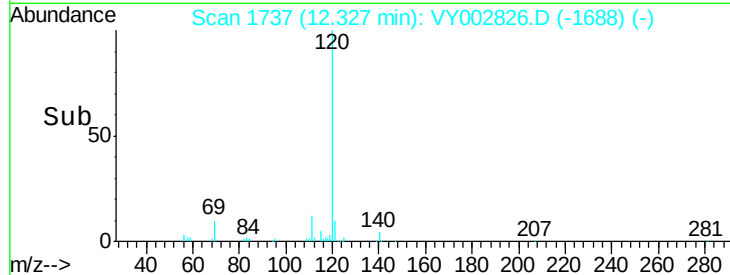
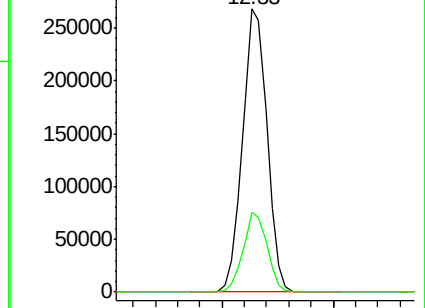
105 100

120 27.6 13.7 41.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 154.156 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY002826.D

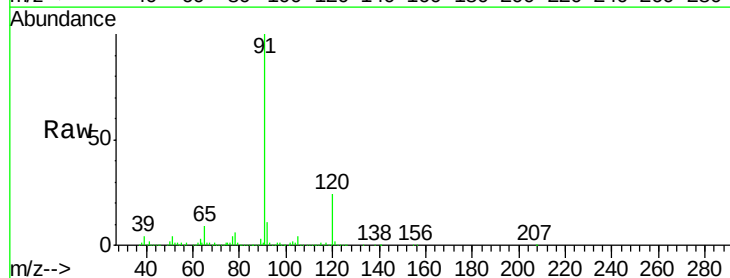
Acq: 03 Jun 2020 12:29

Tgt Ion: 91 Resp: 1493266

Ion Ratio Lower Upper

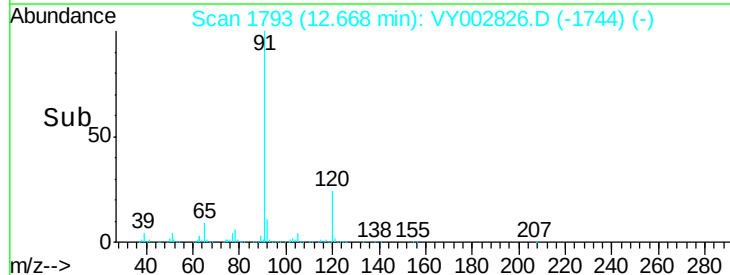
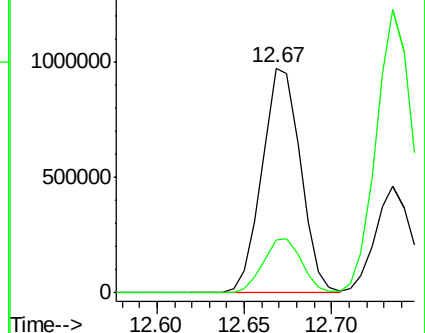
91 100

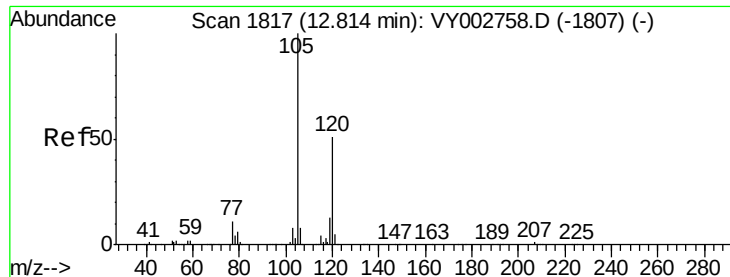
120 24.4 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 339.173 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

Instrument :

MSVOA_Y

ClientSampleId :

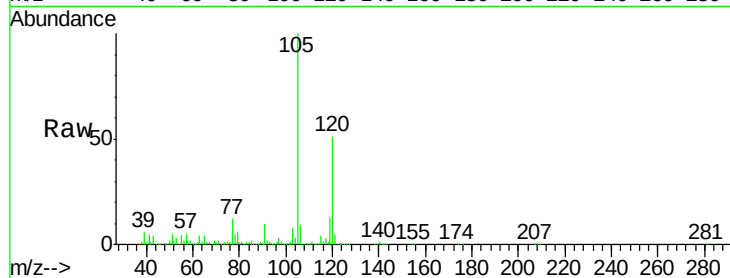
DRUM-OIL

Tot Ion:105 Resp: 2374853

Ion Ratio Lower Upper

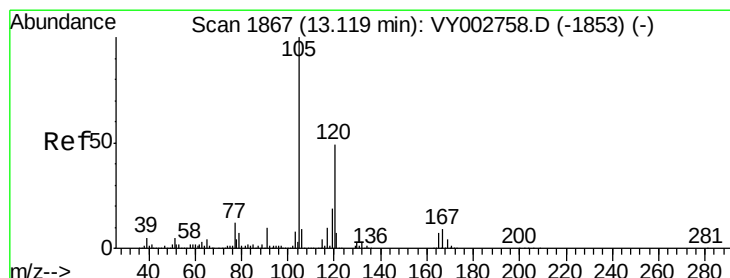
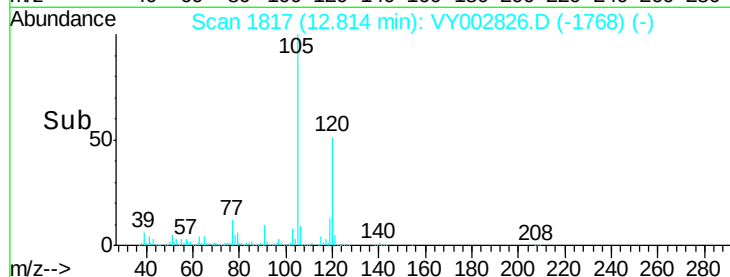
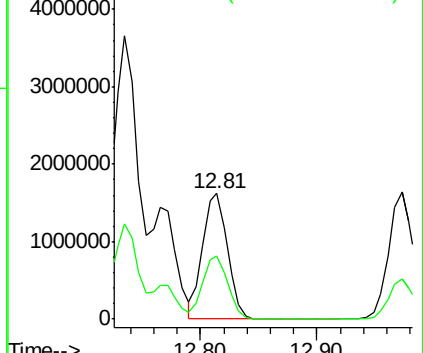
105 100

120 50.7 25.3 75.8



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: 1307.124 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VY002826.D

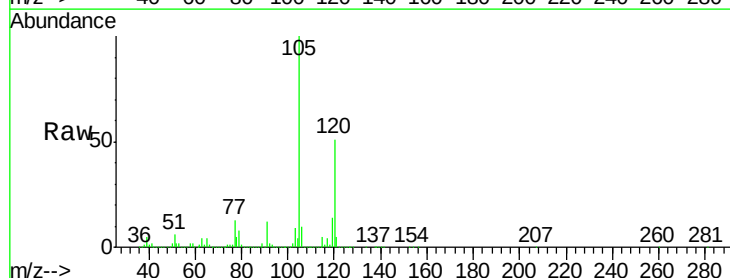
Acq: 03 Jun 2020 12:29

Tgt Ion:105 Resp: 9202692

Ion Ratio Lower Upper

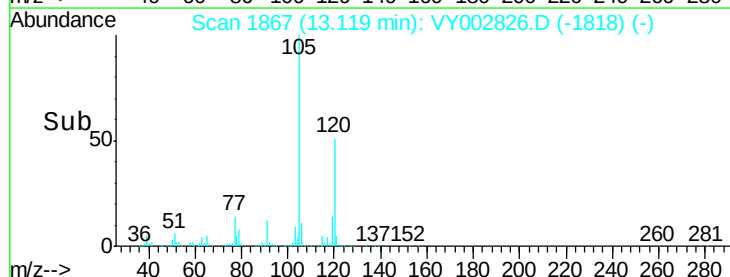
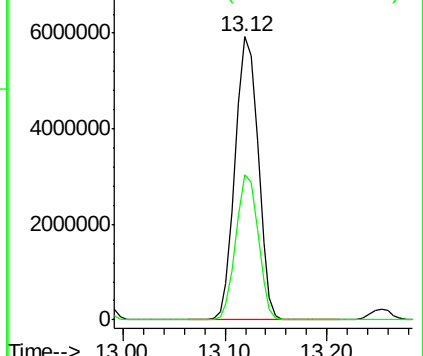
105 100

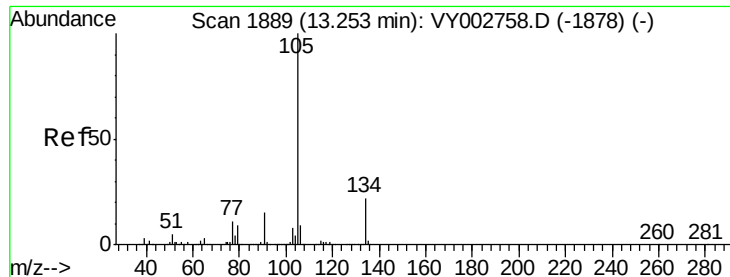
120 50.1 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 39.273 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. 0.00 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

Instrument :

MSVOA_Y

ClientSampleId :

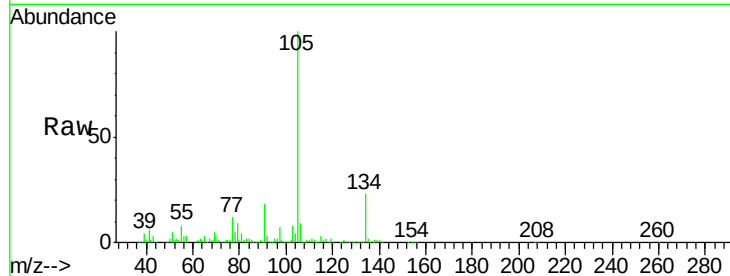
DRUM-OIL

Tot Ion:105 Resp: 335383

Ion Ratio Lower Upper

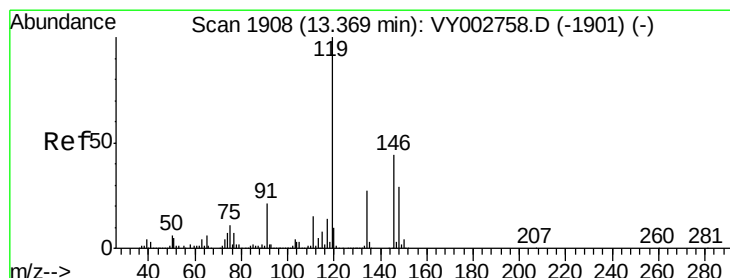
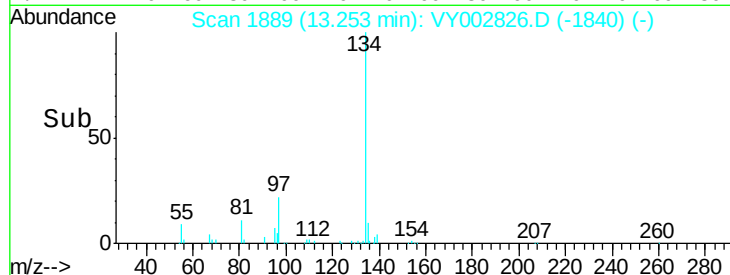
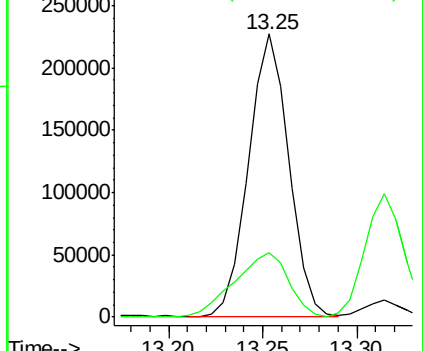
105 100

134 30.9 10.8 32.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 27.167 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. 0.00 min

Lab File: VY002826.D

Acq: 03 Jun 2020 12:29

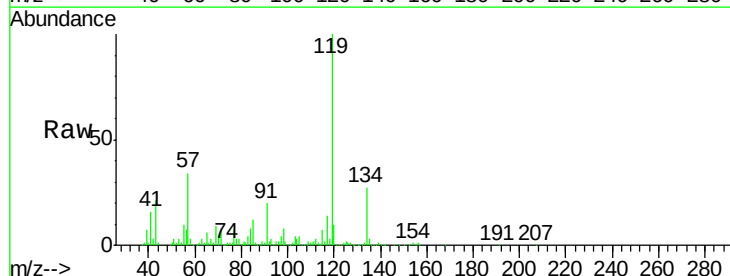
Tgt Ion:119 Resp: 215874

Ion Ratio Lower Upper

119 100

134 27.5 13.7 41.0

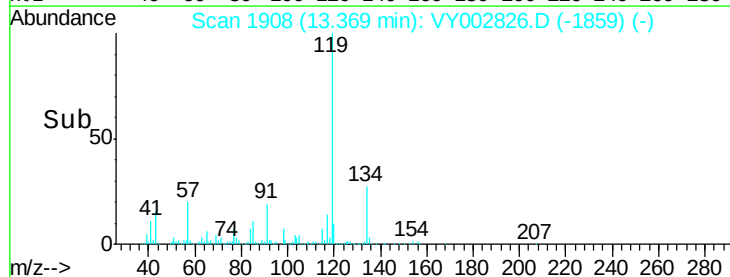
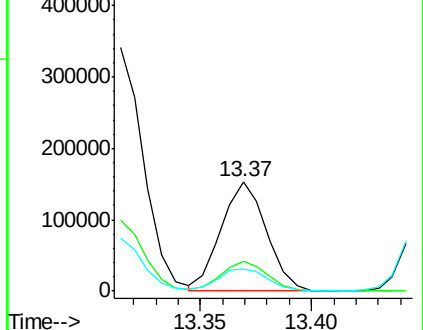
91 21.4 10.8 32.4

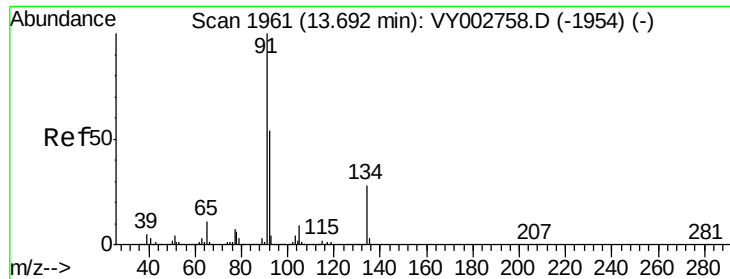


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0

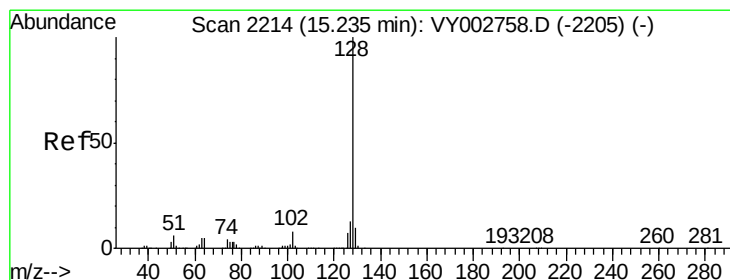
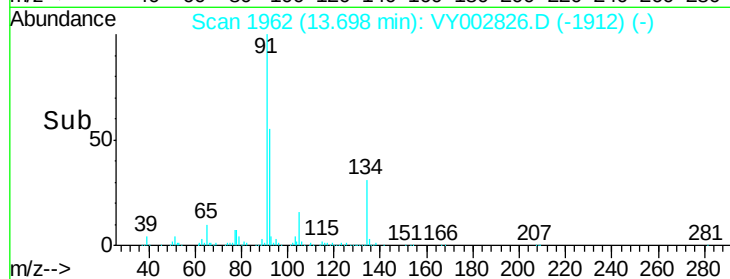
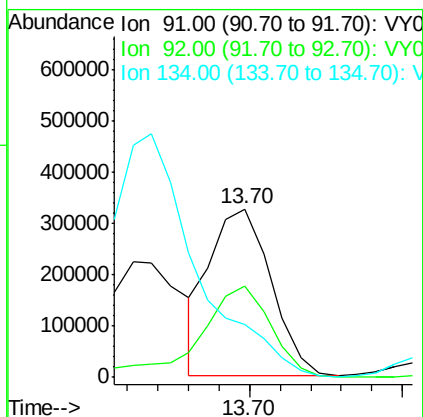
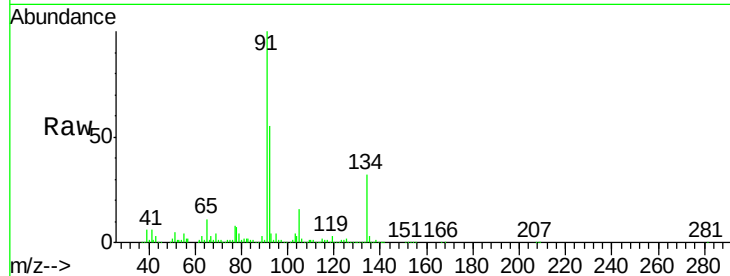




#89
n-Butylbenzene
Concen: 62.345 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. 0.01 min
Lab File: VY002826.D
Acq: 03 Jun 2020 12:29

Instrument :
MSVOA_Y
ClientSampled :
DRUM-OIL

Tot Ion: 91 Resp: 449781
Ion Ratio Lower Upper
91 100
92 64.5 27.1 81.2
134 0.0 14.3 42.9#



#95
Naphthalene
Concen: 328.448 ug/l
RT: 15.23 min Scan# 2214
Delta R.T. 0.00 min
Lab File: VY002826.D
Acq: 03 Jun 2020 12:29

Tgt Ion: 128 Resp: 1861951
Ion Ratio Lower Upper
128 100
127 13.8 10.3 15.5
129 11.7 8.7 13.1

