

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD021320\
 Data File : VD065177.D
 Acq On : 13 Feb 2020 15:03
 Operator : VA/SY
 Sample : L1518-01
 Misc : 5.04G/5.00ml/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-STONES

Quant Time: Feb 14 15:54:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 05 15:53:00 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	343257	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	638079	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	360145	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	41084	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	184023	63.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	126.16%	
35) Dibromofluoromethane	7.92	113	200913	56.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.86%	
50) Toluene-d8	10.34	98	542966	38.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.64%	
62) 4-Bromofluorobenzene	12.64	95	101147	22.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	45.06%	

Target Compounds

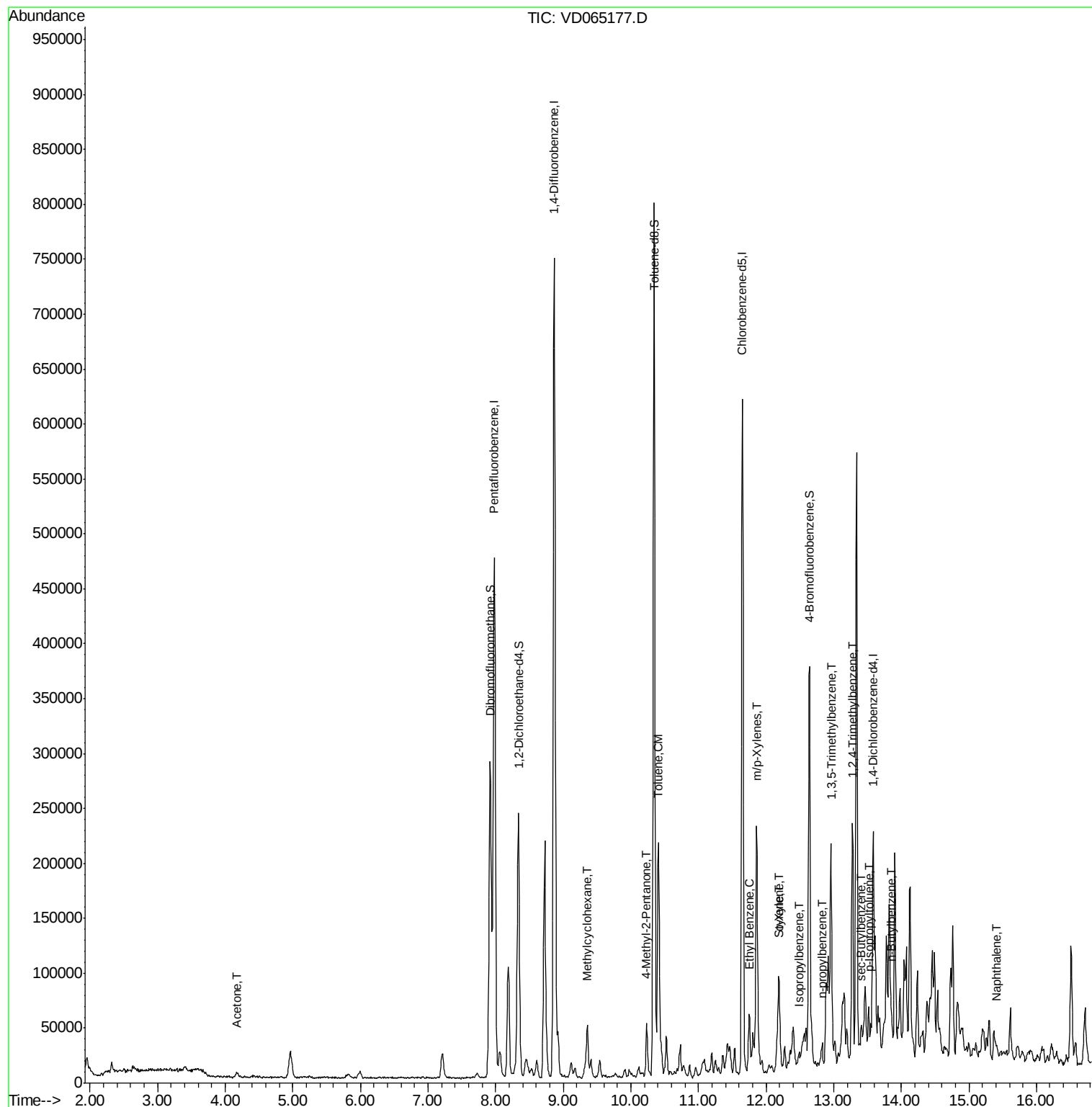
						Qvalue
16) Acetone	4.17	43	7678	10.526	ug/l	98
39) Methylcyclohexane	9.36	83	14189	1.937	ug/l	91
51) 4-Methyl-2-Pentanone	10.23	43	32043	14.040	ug/l	95
52) Toluene	10.41	92	86046	8.228	ug/l	97
67) Ethyl Benzene	11.75	91	31526	2.491	ug/l	95
68) m/p-Xylenes	11.86	106	42077	8.711	ug/l	96
69) o-Xylene	12.18	106	18698	4.299	ug/l	96
70) Styrene	12.20	104	13436	1.777	ug/l #	84
73) Isopropylbenzene	12.49	105	6245	2.215	ug/l	97
78) n-propylbenzene	12.83	91	16840	5.099	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	29375	12.733	ug/l	96
84) 1,2,4-Trimethylbenzene	13.28	105	120559	52.639	ug/l	99
85) sec-Butylbenzene	13.41	105	15401	5.666	ug/l	89
86) p-Isopropyltoluene	13.53	119	5694	2.254	ug/l	95
89) n-Butylbenzene	13.86	91	14637	6.279	ug/l #	68
95) Naphthalene	15.41	128	9231	7.132	ug/l	97

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

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Quant Time: Feb 14 15:54:56 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D020520S.M
Quant Title : SW846 8260
QLast Update : Wed Feb 05 15:53:00 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

Instrument :

MSVOA_D

ClientSampleId :

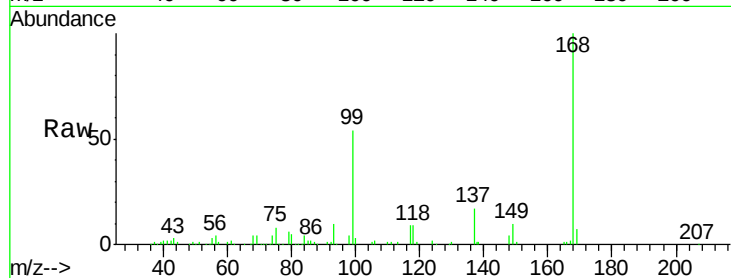
OILY-STONES

Tot Ion:168 Resp: 343257

Ion Ratio Lower Upper

168 100

99 53.5 41.0 61.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

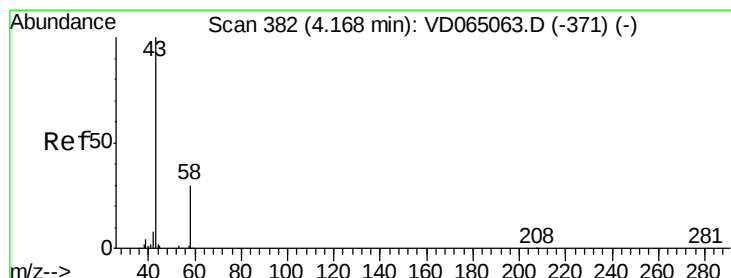
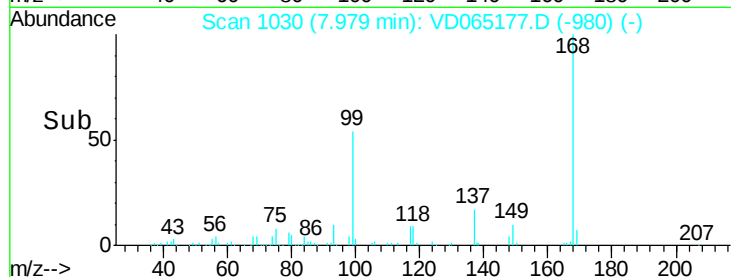
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 10.526 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD065177.D

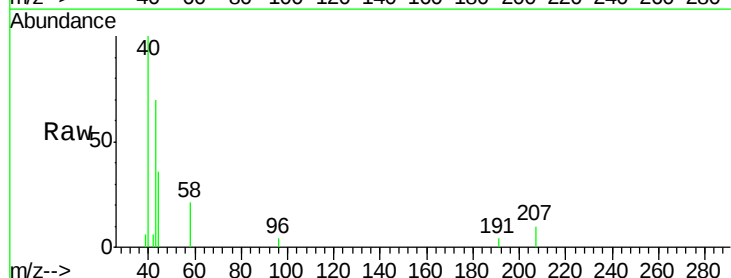
Acq: 13 Feb 2020 15:03

Tgt Ion: 43 Resp: 7678

Ion Ratio Lower Upper

43 100

58 30.5 23.5 35.3



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

3000

2500

2000

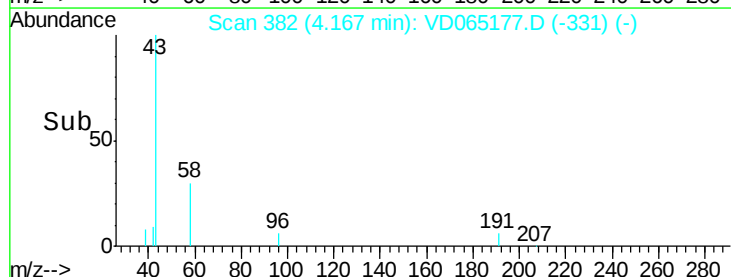
1500

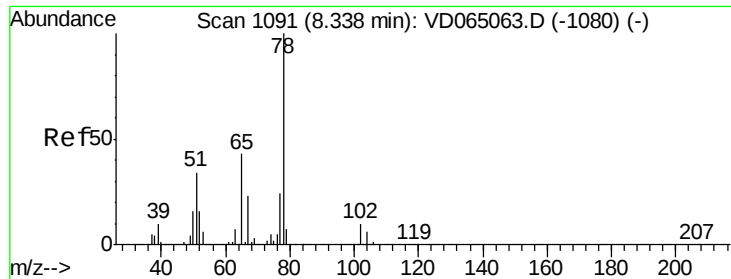
1000

500

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 63.078 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

Instrument :

MSVOA_D

ClientSampleId :

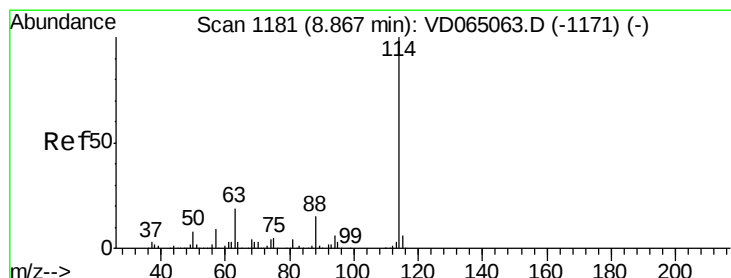
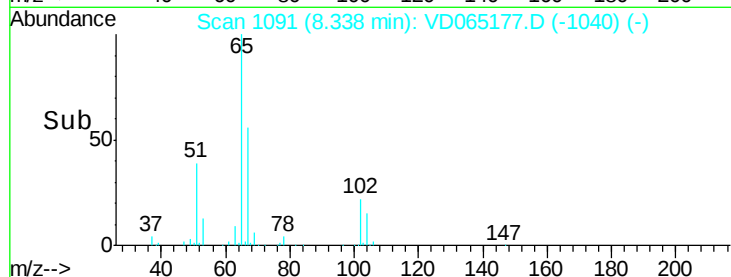
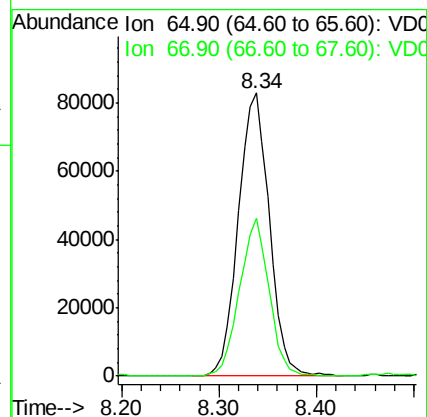
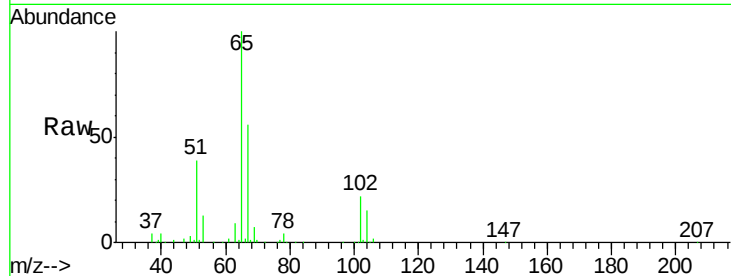
OILY-STONES

Tot Ion: 65 Resp: 184023

Ion Ratio Lower Upper

65 100

67 53.1 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

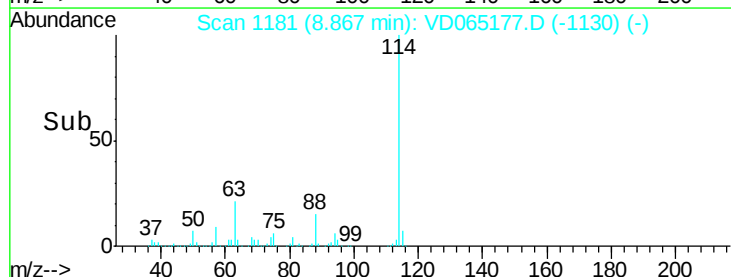
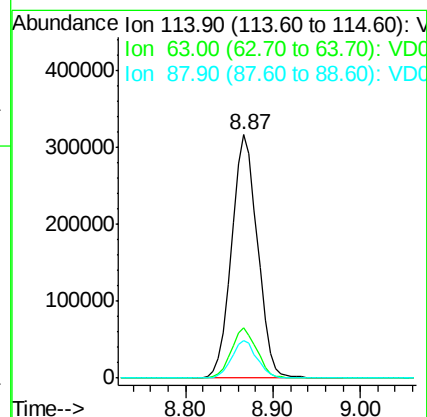
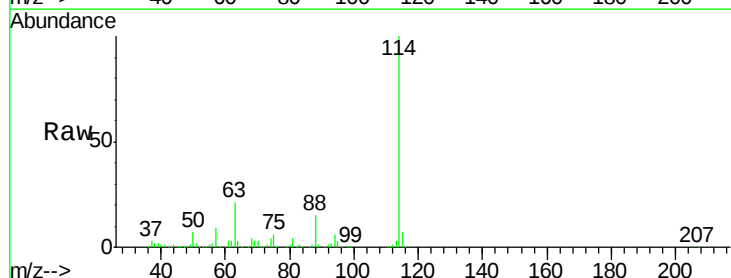
Tgt Ion: 114 Resp: 638079

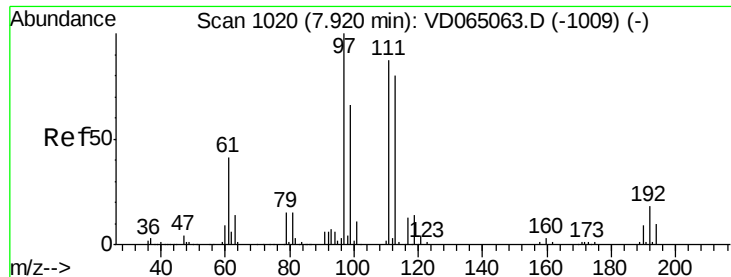
Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.8

88 15.3 0.0 29.6

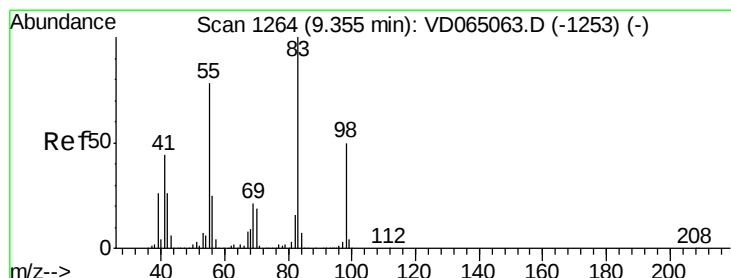
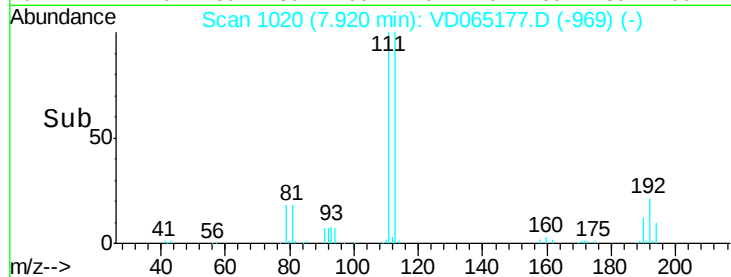
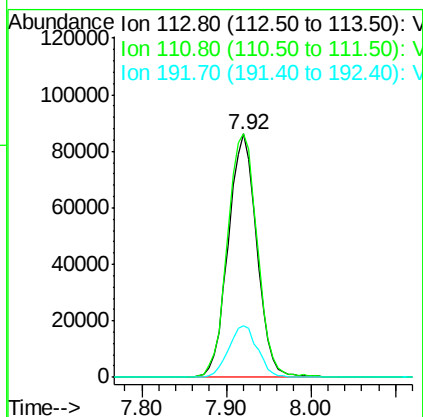
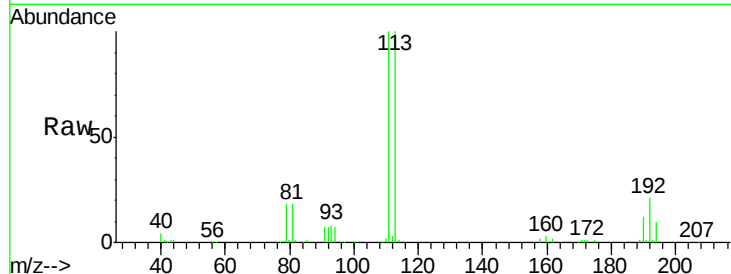




#35
 Dibromofluoromethane
 Concen: 56.435 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD065177.D
 Acq: 13 Feb 2020 15:03

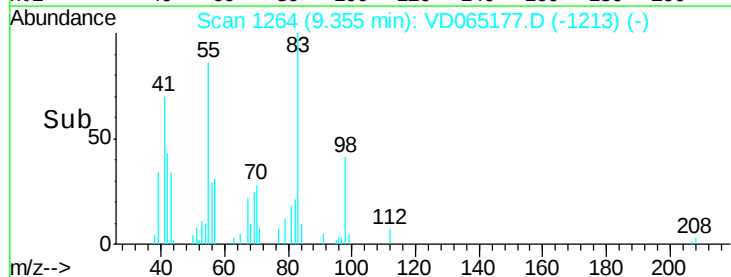
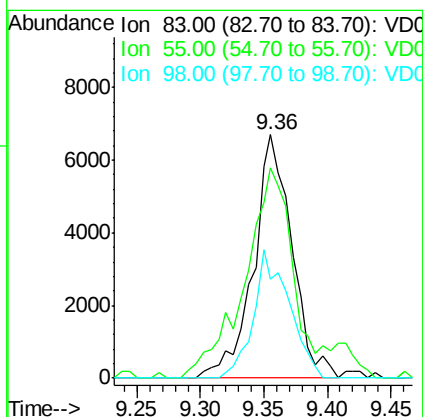
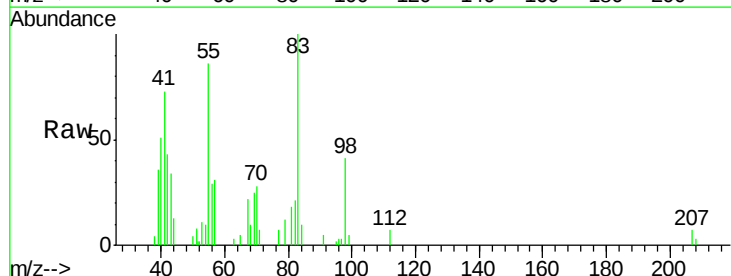
Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-STONES

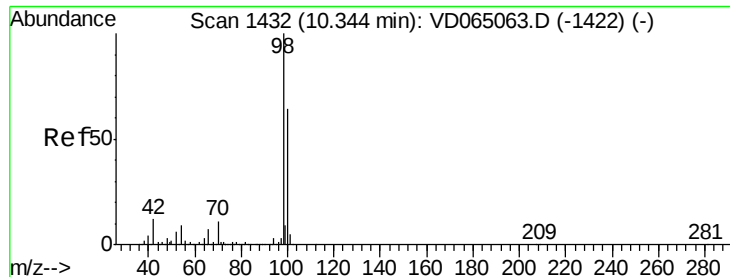
Tot Ion	Ratio	Lower	Upper
113	100		
111	104.1	83.1	124.7
192	21.4	18.1	27.1



#39
 Methylcyclohexane
 Concen: 1.937 ug/l
 RT: 9.36 min Scan# 1264
 Delta R.T. -0.00 min
 Lab File: VD065177.D
 Acq: 13 Feb 2020 15:03

Tgt Ion	Ratio	Lower	Upper
83	100		
55	82.9	62.0	93.0
98	40.8	39.9	59.9





#50

Toluene-d8

Concen: 38.317 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

Instrument :

MSVOA_D

ClientSampleId :

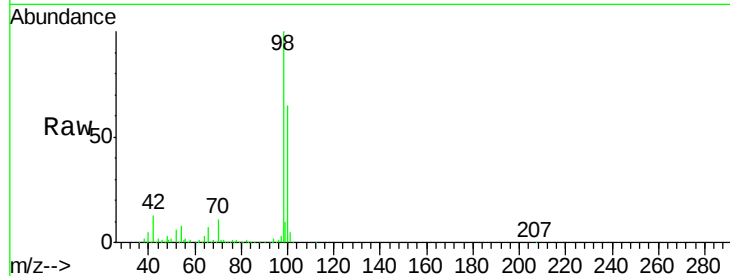
OILY-STONES

Tot Ion: 98 Resp: 542966

Ion Ratio Lower Upper

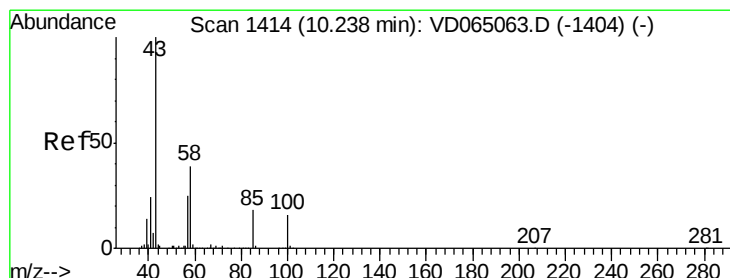
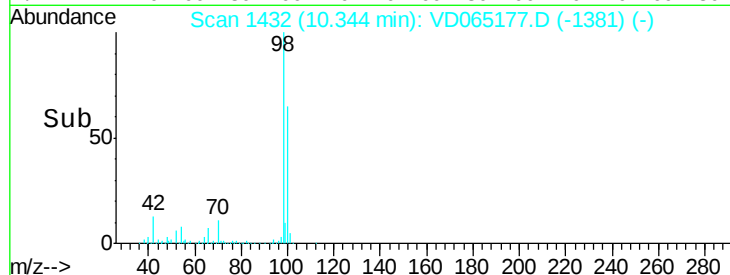
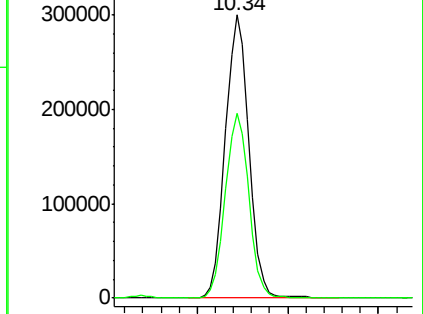
98 100

100 65.3 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 14.040 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD065177.D

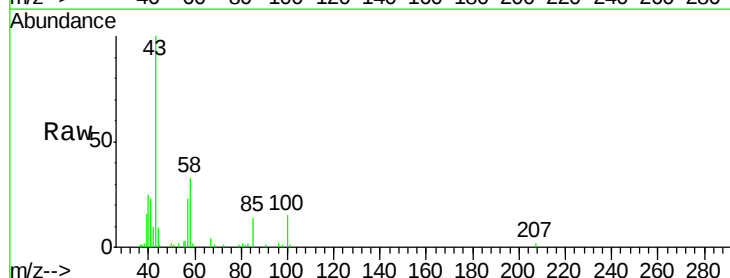
Acq: 13 Feb 2020 15:03

Tgt Ion: 43 Resp: 32043

Ion Ratio Lower Upper

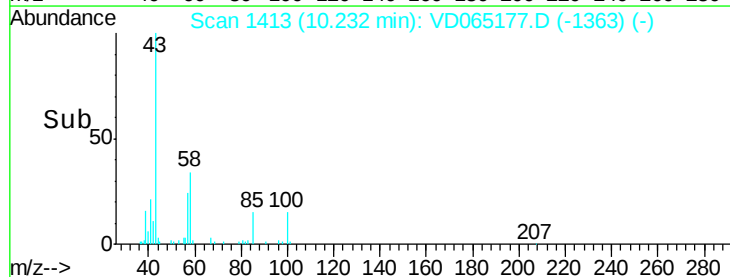
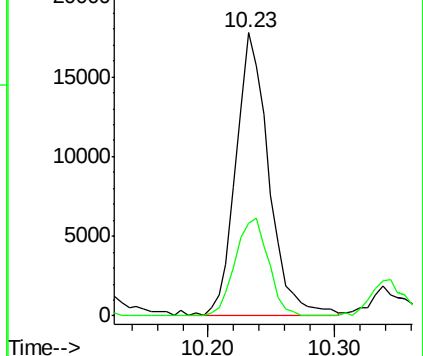
43 100

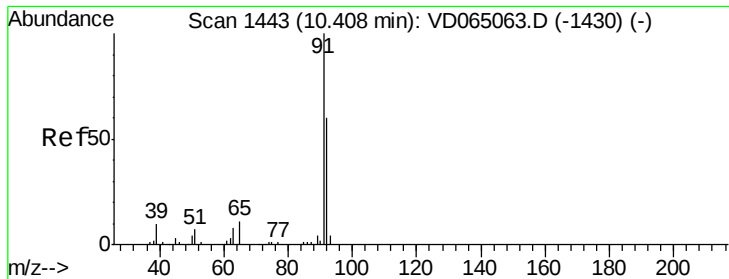
58 34.6 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#52

Toluene

Concen: 8.228 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. -0.00 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

Instrument :

MSVOA_D

ClientSampleId :

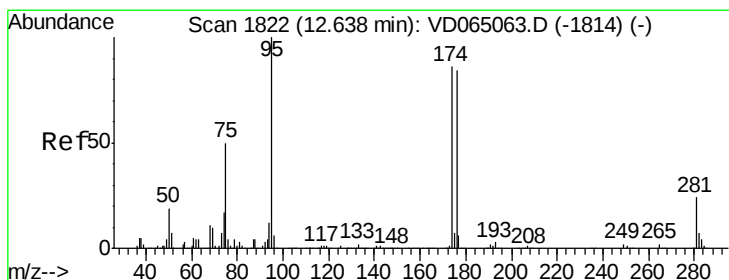
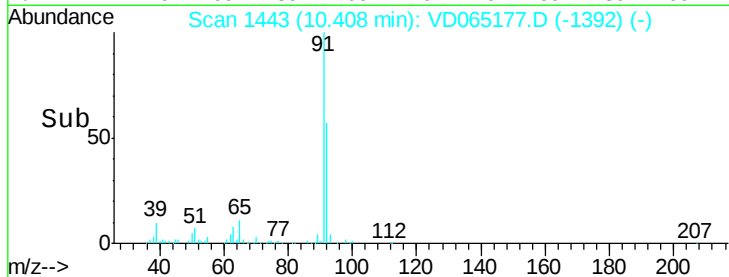
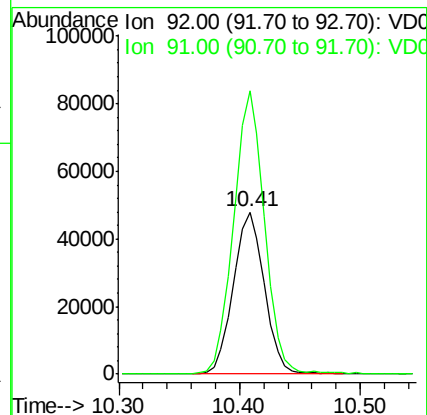
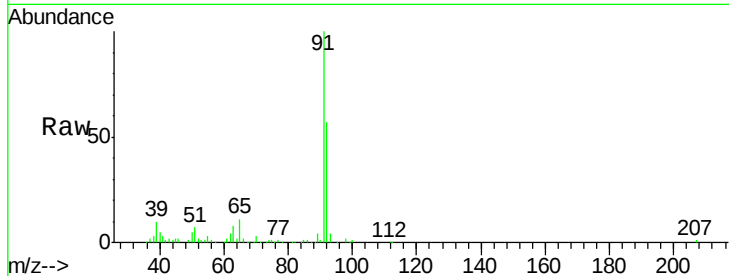
OILY-STONES

Tot Ion: 92 Resp: 86046

Ion Ratio Lower Upper

92 100

91 173.3 135.3 202.9



#62

4-Bromofluorobenzene

Concen: 22.527 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

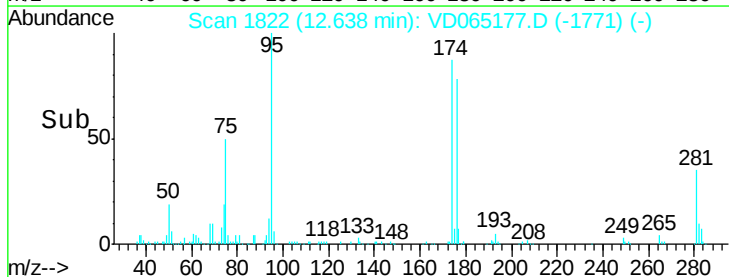
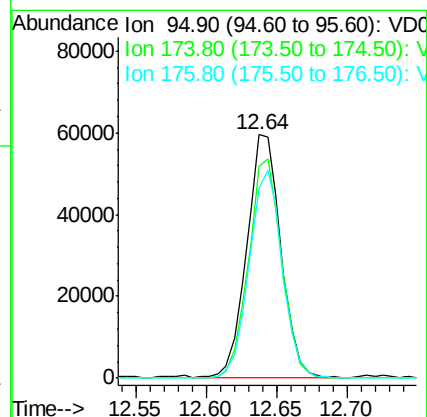
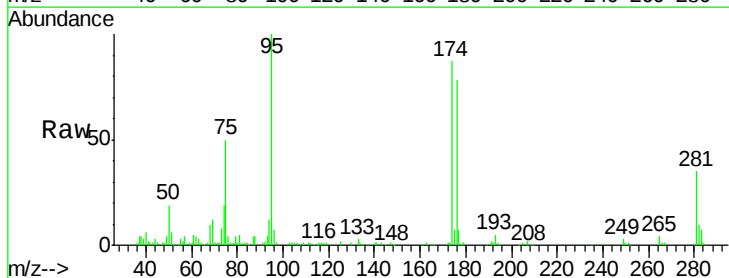
Tgt Ion: 95 Resp: 101147

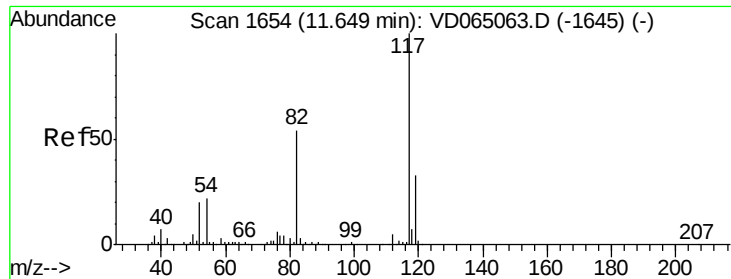
Ion Ratio Lower Upper

95 100

174 87.3 0.0 180.0

176 82.6 0.0 173.2

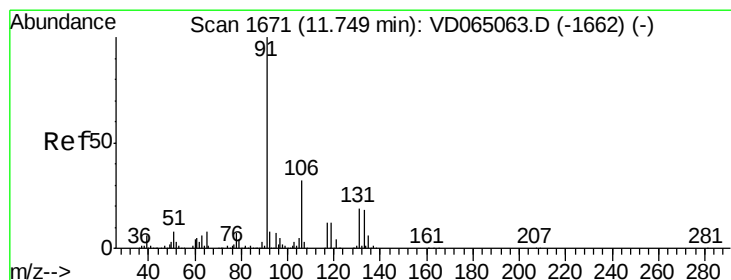
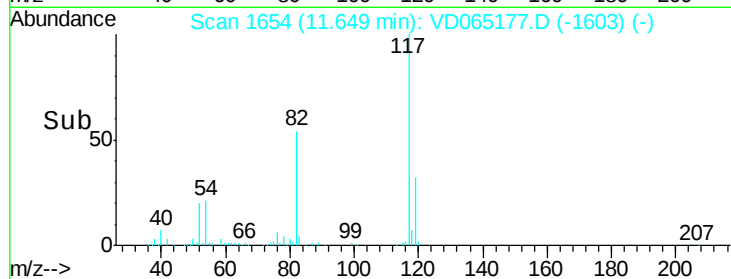
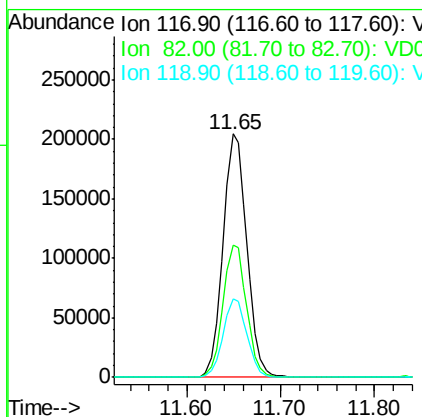
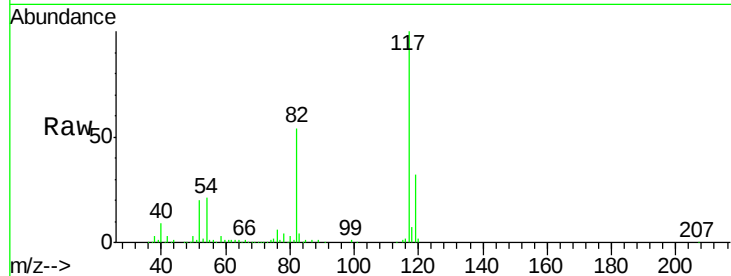




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065177.D
Acq: 13 Feb 2020 15:03

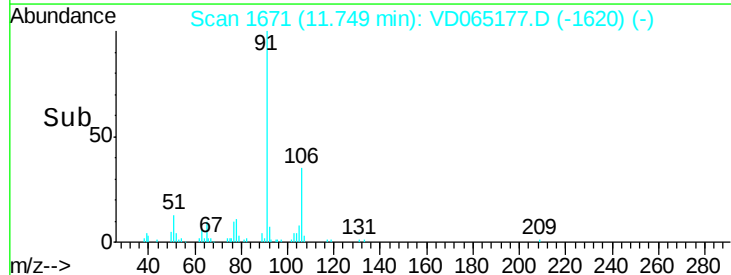
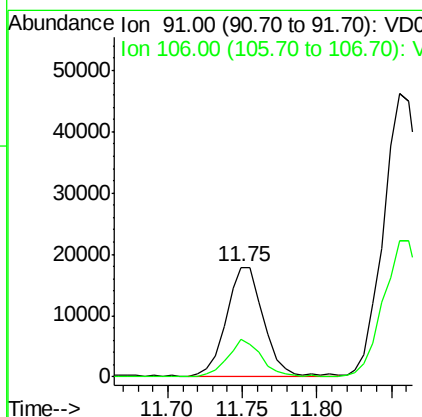
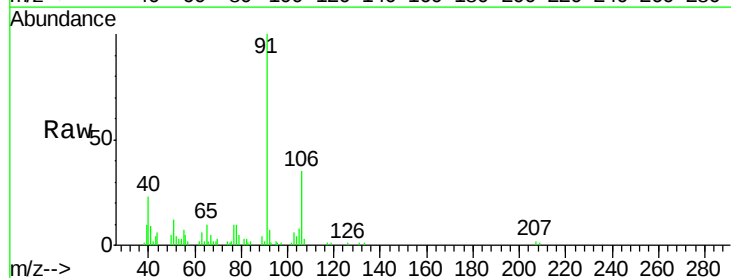
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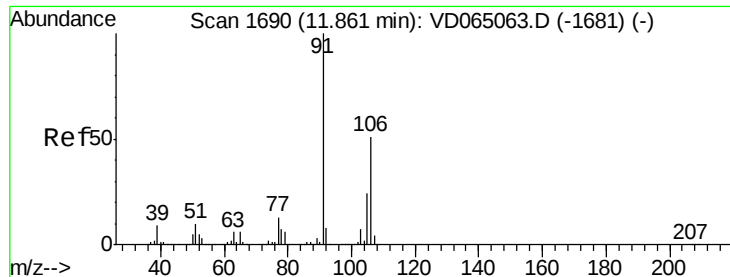
Tot Ion:117 Resp: 360145
Ion Ratio Lower Upper
117 100
82 54.1 43.1 64.7
119 32.0 26.0 39.0



#67
Ethyl Benzene
Concen: 2.491 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. -0.00 min
Lab File: VD065177.D
Acq: 13 Feb 2020 15:03

Tgt Ion: 91 Resp: 31526
Ion Ratio Lower Upper
91 100
106 34.5 25.4 38.2

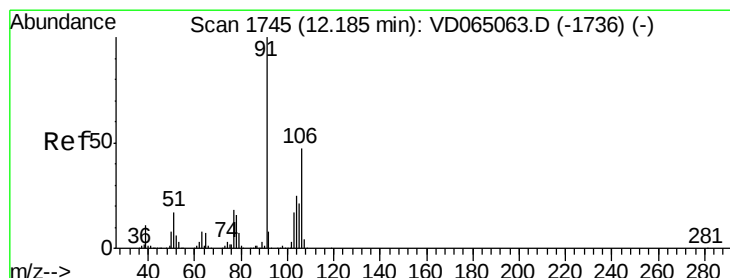
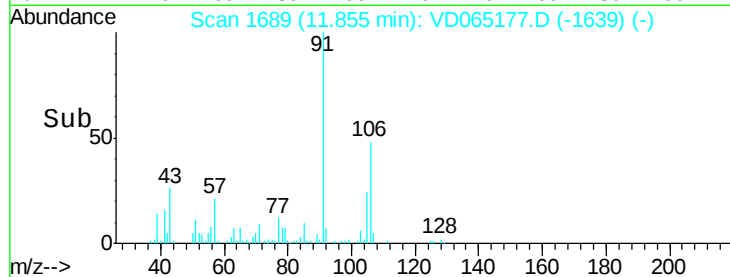
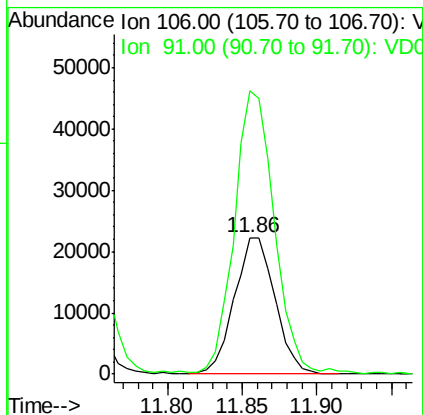
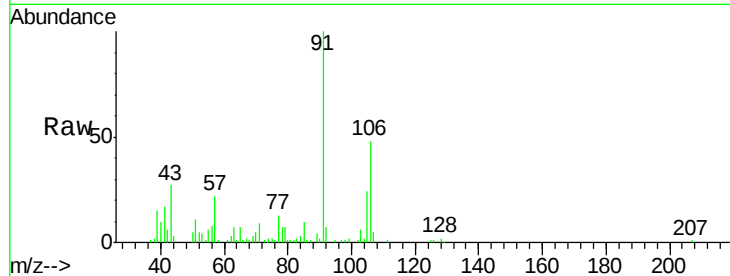




#68
m/p-Xylenes
Concen: 8.711 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.01 min
Lab File: VD065177.D
Acq: 13 Feb 2020 15:03

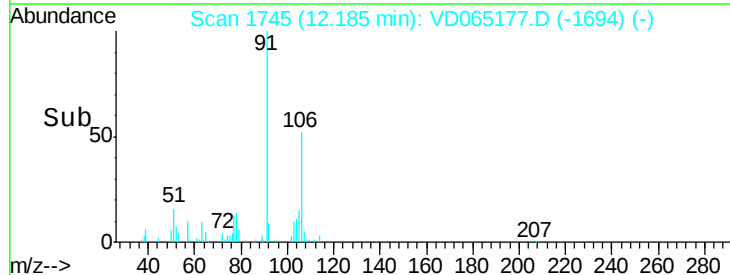
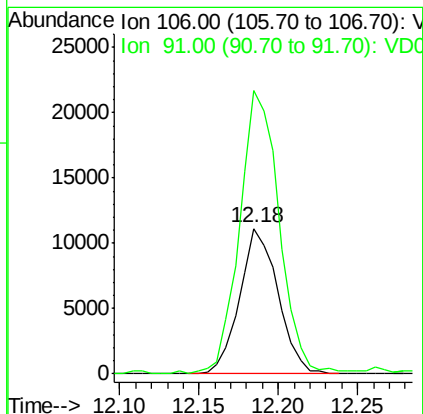
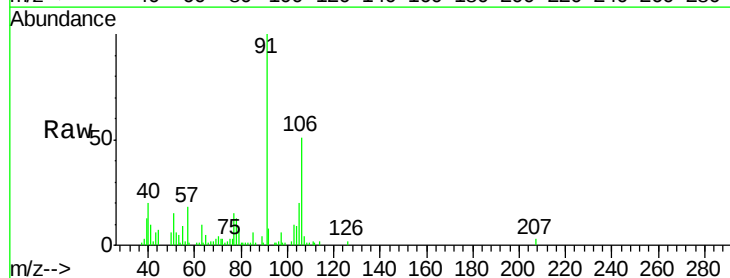
Instrument :
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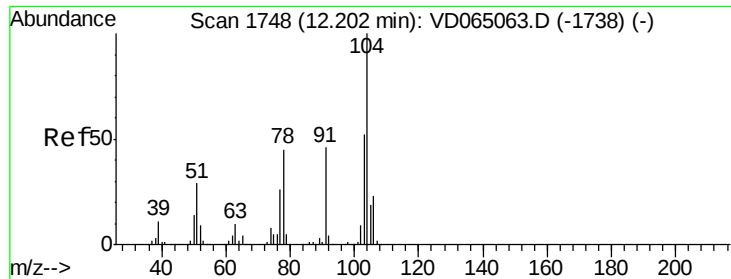
Tot Ion:106 Resp: 42077
Ion Ratio Lower Upper
106 100
91 204.8 158.9 238.3



#69
o-Xylene
Concen: 4.299 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD065177.D
Acq: 13 Feb 2020 15:03

Tgt Ion:106 Resp: 18698
Ion Ratio Lower Upper
106 100
91 202.4 104.7 313.9

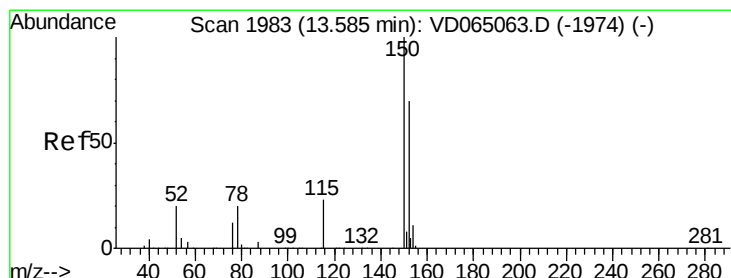
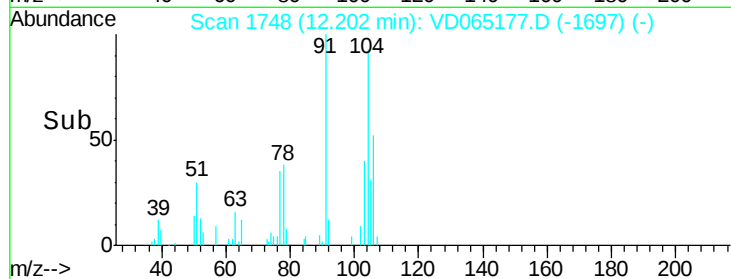
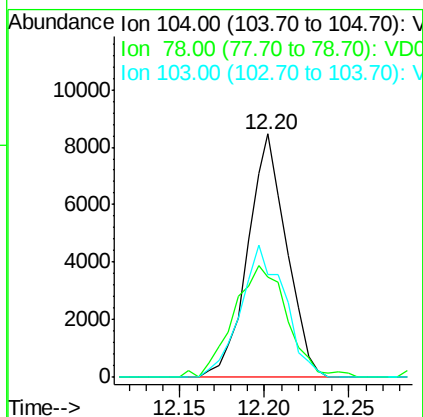
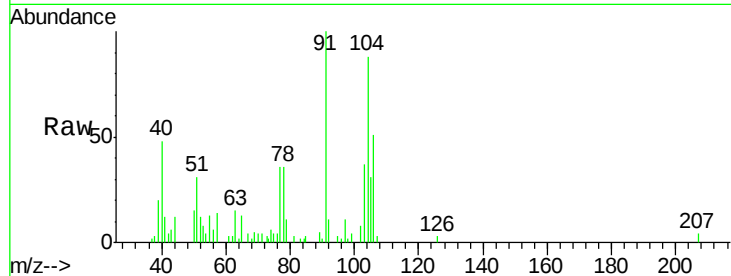




#70
Stvrene
Concen: 1.777 ug/l
RT: 12.20 min Scan# 1748
Delta R.T. -0.00 min
Lab File: VD065177.D
Acq: 13 Feb 2020 15:03

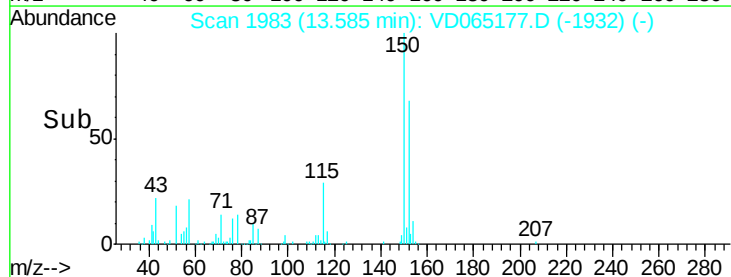
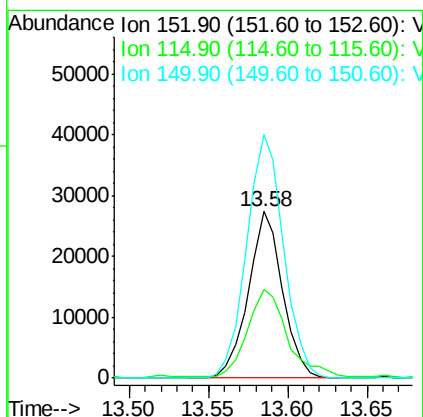
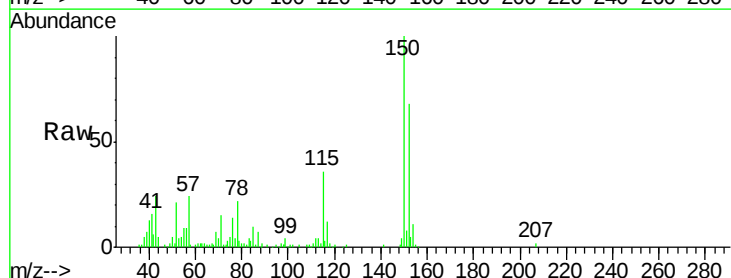
Instrument :
MSVOA_D
ClientSampleId :
OILY-STONES

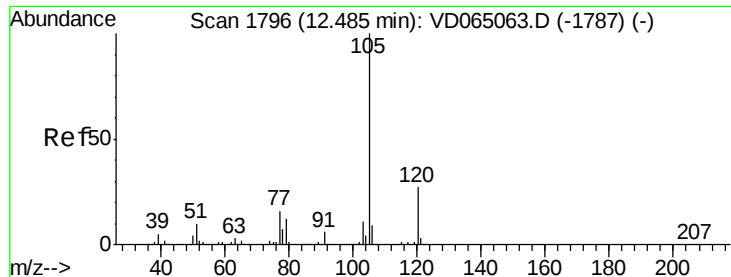
Tot Ion	Ratio	Lower	Upper
104	100		
78	64.1	38.5	57.7#
103	61.6	43.8	65.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065177.D
Acq: 13 Feb 2020 15:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.9	27.5	82.4
150	157.4	0.0	343.2





#73

Isopropylbenzene

Concen: 2.215 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. 0.01 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

Instrument :

MSVOA_D

ClientSampleId :

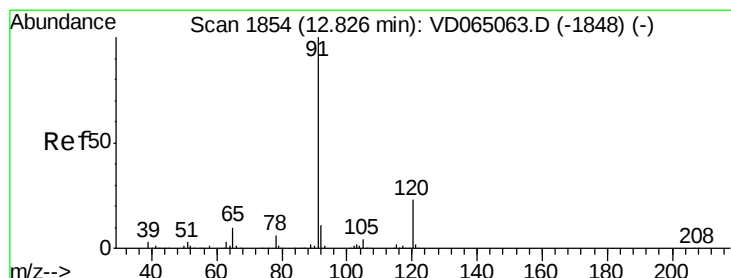
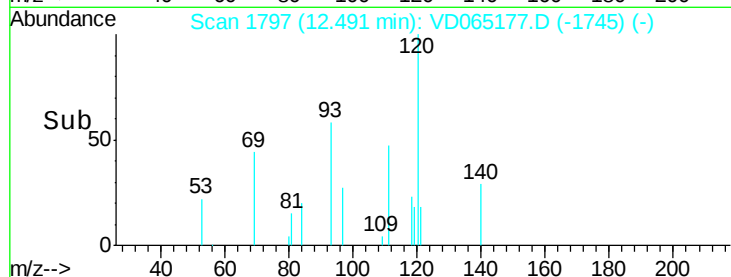
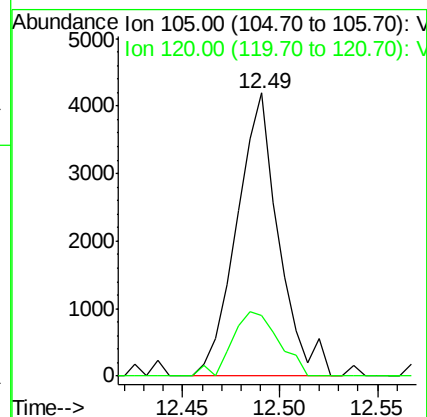
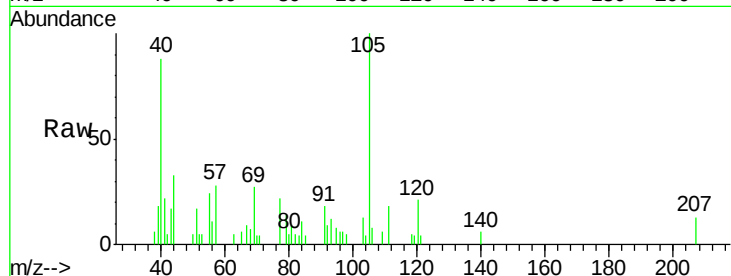
OILY-STONES

Tot Ion:105 Resp: 6245

Ion Ratio Lower Upper

105 100

120 25.2 13.3 39.9



#78

n-propylbenzene

Concen: 5.099 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. -0.00 min

Lab File: VD065177.D

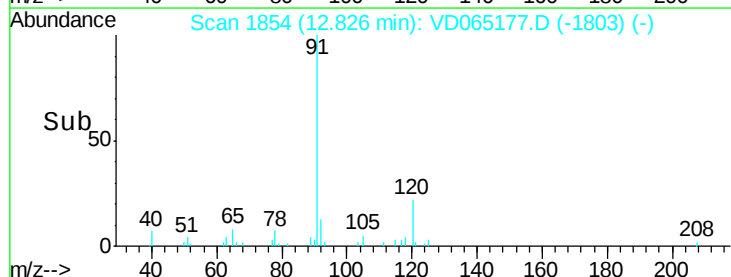
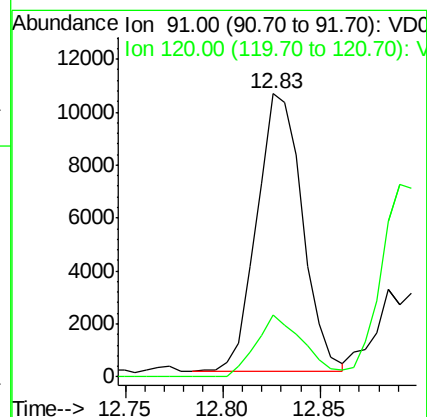
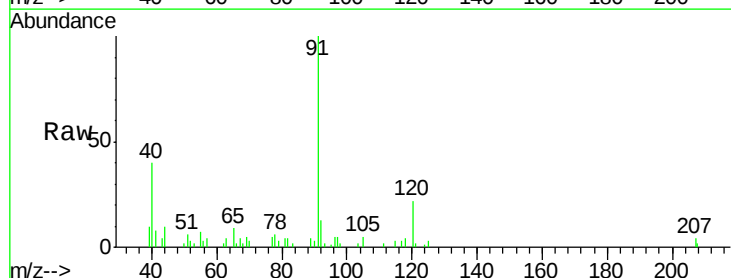
Acq: 13 Feb 2020 15:03

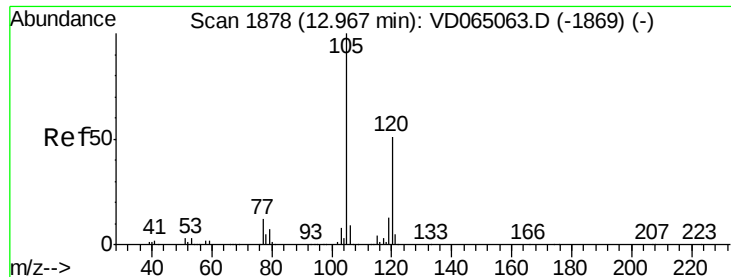
Tgt Ion: 91 Resp: 16840

Ion Ratio Lower Upper

91 100

120 23.3 11.8 35.3

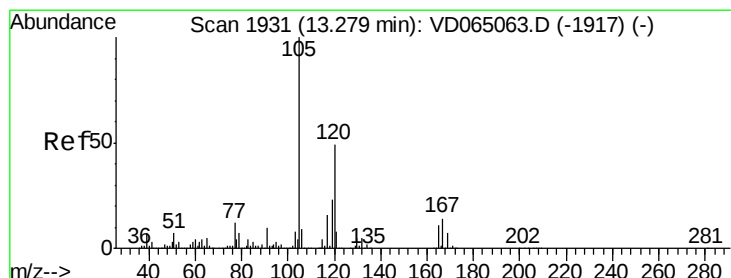
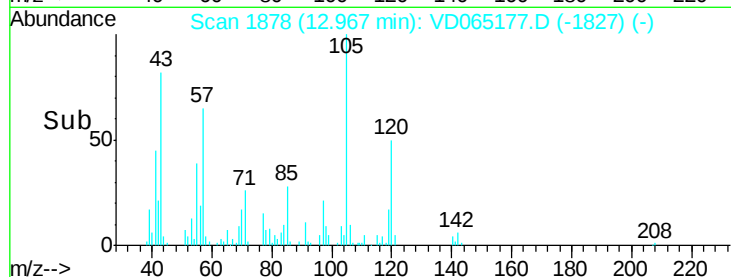
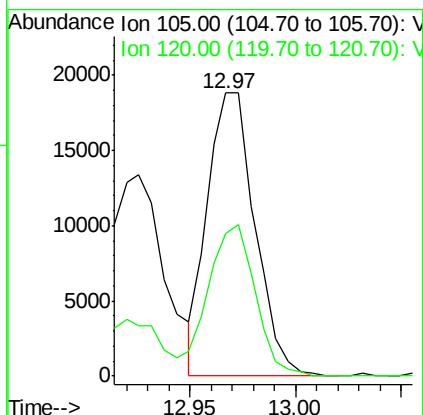
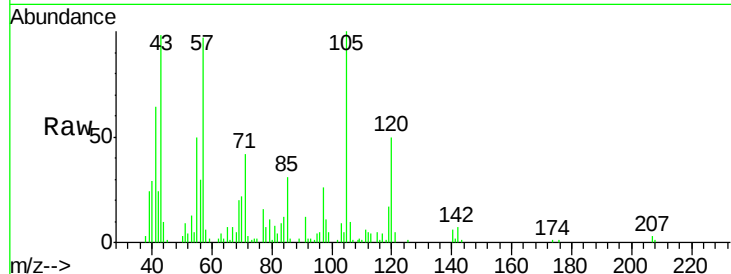




#80
 1,3,5-Trimethylbenzene
 Concen: 12.733 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. -0.00 min
 Lab File: VD065177.D
 Acq: 13 Feb 2020 15:03

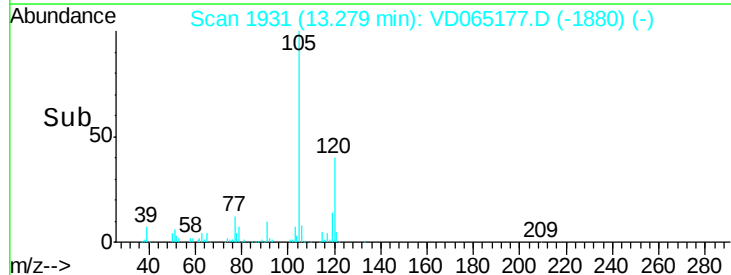
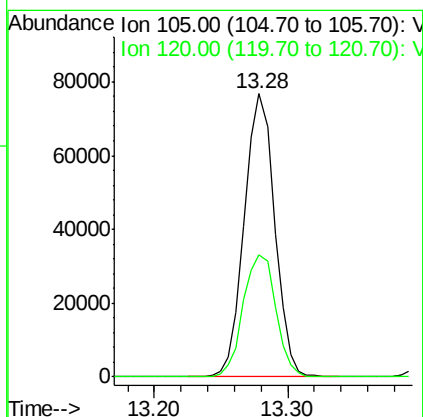
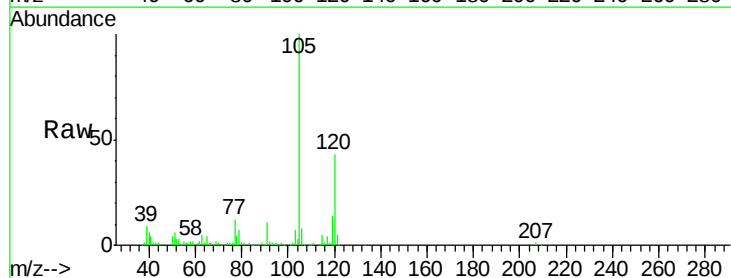
Instrument :
 MSVOA_D
 ClientSampleId :
 OILY-STONES

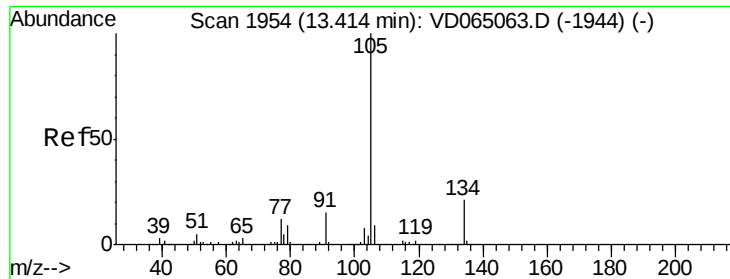
Tot Ion:105 Resp: 29375
 Ion Ratio Lower Upper
 105 100
 120 53.3 25.1 75.4



#84
 1,2,4-Trimethylbenzene
 Concen: 52.639 ug/l
 RT: 13.28 min Scan# 1931
 Delta R.T. -0.00 min
 Lab File: VD065177.D
 Acq: 13 Feb 2020 15:03

Tgt Ion:105 Resp: 120559
 Ion Ratio Lower Upper
 105 100
 120 46.3 23.5 70.5





#85

sec-Butylbenzene

Concen: 5.666 ug/l

RT: 13.41 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

Instrument :

MSVOA_D

ClientSampleId :

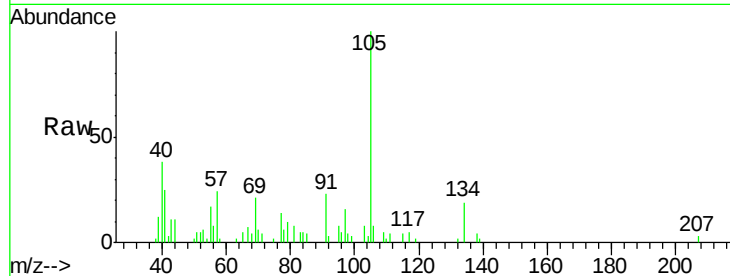
OILY-STONES

Tot Ion:105 Resp: 15401

Ion Ratio Lower Upper

105 100

134 26.0 10.4 31.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.41

10000

8000

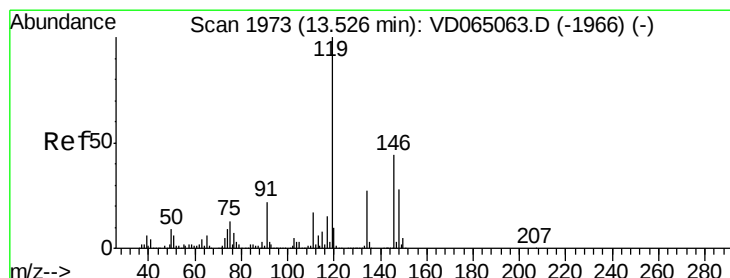
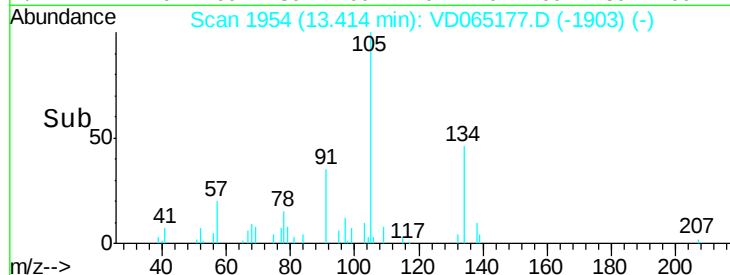
6000

4000

2000

0

Time-->



#86

p-Isopropyltoluene

Concen: 2.254 ug/l

RT: 13.53 min Scan# 1974

Delta R.T. 0.01 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

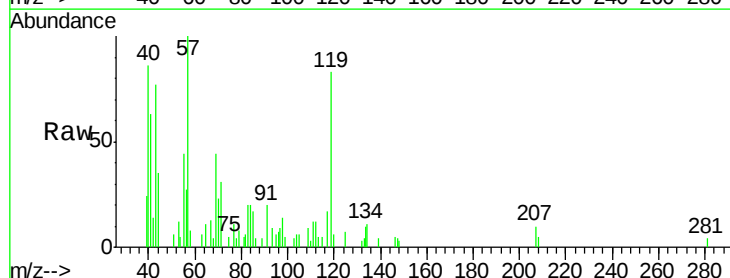
Tgt Ion:119 Resp: 5694

Ion Ratio Lower Upper

119 100

134 26.8 13.5 40.5

91 27.2 11.3 33.9



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): V

8000

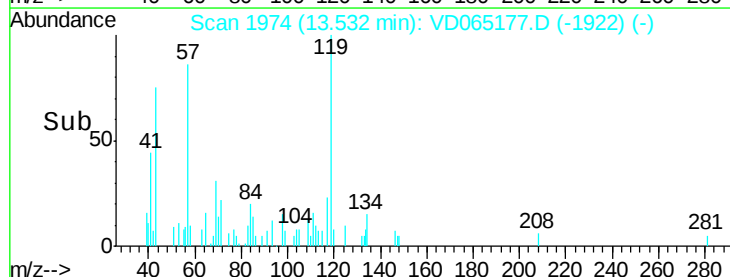
6000

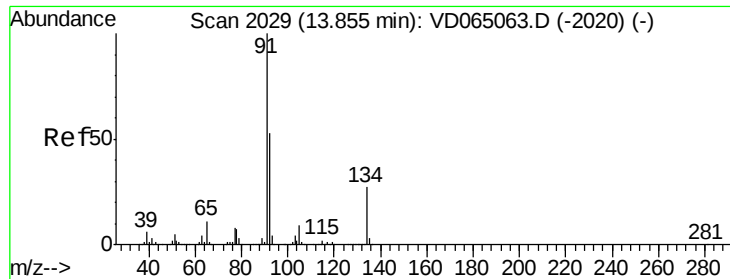
4000

2000

0

Time-->





#89

n-Butylbenzene

Concen: 6.279 ug/l

RT: 13.86 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

Instrument :

MSVOA_D

ClientSampleId :

OILY-STONES

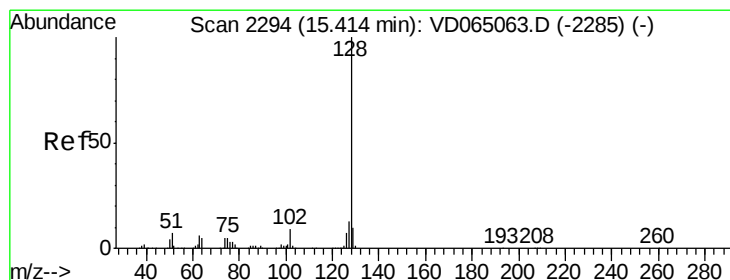
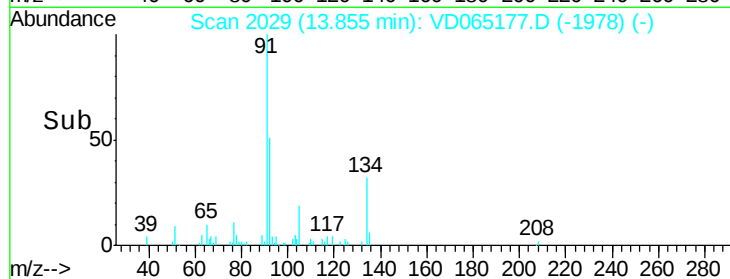
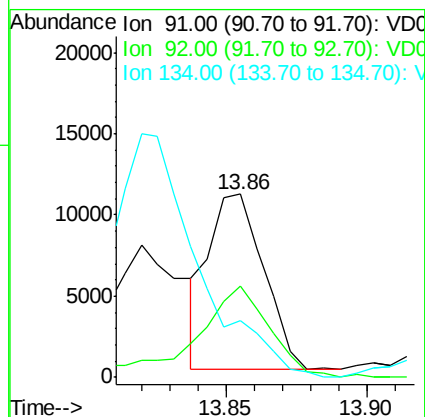
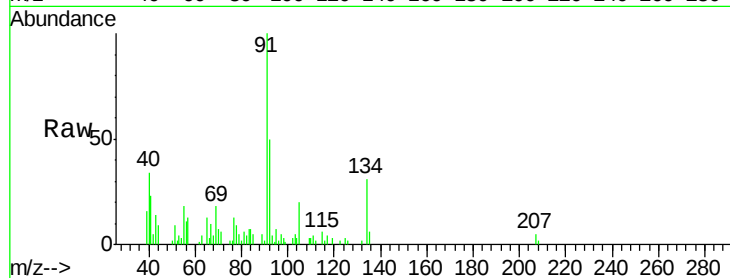
Tot Ion: 91 Resp: 14637

Ion Ratio Lower Upper

91 100

92 68.6 26.7 80.1

134 0.0 13.4 40.2#



#95

Naphthalene

Concen: 7.132 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065177.D

Acq: 13 Feb 2020 15:03

Tgt Ion: 128 Resp: 9231

Ion Ratio Lower Upper

128 100

127 14.9 10.6 15.8

129 11.5 8.7 13.1

