

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051525\
 Data File : VD080355.D
 Acq On : 15 May 2025 18:10
 Operator : RP/MD
 Sample : Q2014-05
 Misc : 4.75G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0145

Quant Time: May 16 03:01:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050625S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 07 08:57:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

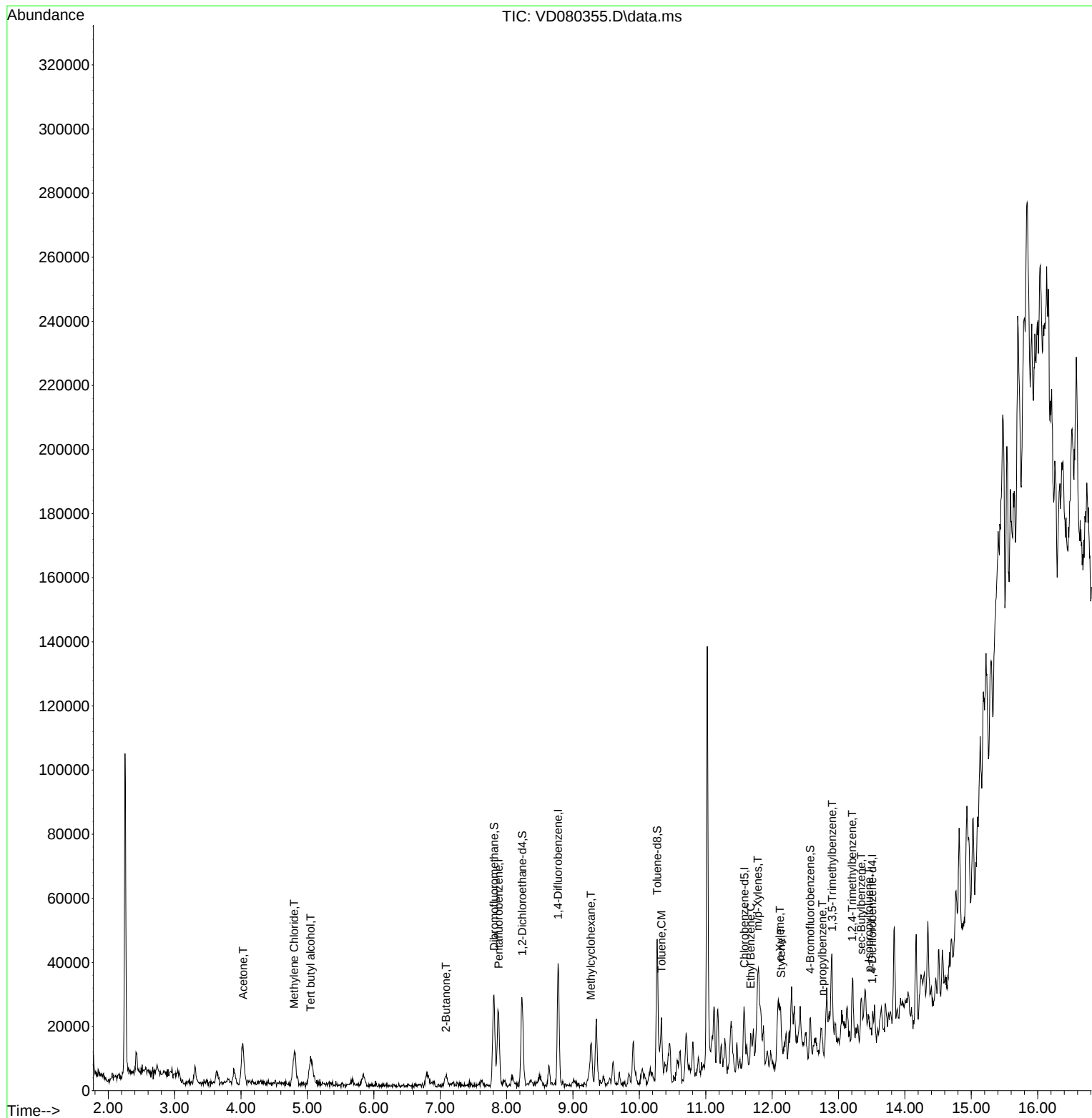
Internal Standards						
1) Pentafluorobenzene	7.882	168	15027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	30915	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	10522	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.505	152	2173	50.000	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.235	65	20910	107.603	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	215.200%#
35) Dibromofluoromethane	7.811	113	20392	98.415	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	196.840%#
50) Toluene-d8	10.270	98	20214	24.760	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	49.520%#
62) 4-Bromofluorobenzene	12.576	95	3408	13.006	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	26.020%#
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.047	59	14550	1233.907	ug/l	# 82
16) Acetone	4.029	43	21924	719.661	ug/l	91
20) Methylene Chloride	4.800	84	7995	37.573	ug/l	# 88
25) 2-Butanone	7.088	43	4199	78.534	ug/l	92
39) Methylcyclohexane	9.270	83	4467	12.431	ug/l	# 85
52) Toluene	10.335	92	7191	12.302	ug/l	86
67) Ethyl Benzene	11.676	91	5571	14.032	ug/l	93
68) m/p-Xylenes	11.782	106	6161	39.965	ug/l	93
69) o-Xylene	12.117	106	2569	18.237	ug/l	80
70) Styrene	12.135	104	2274	8.990	ug/l	# 65
78) n-propylbenzene	12.758	91	2969	16.784	ug/l	93
80) 1,3,5-Trimethylbenzene	12.905	105	2907	24.179	ug/l	100
84) 1,2,4-Trimethylbenzene	13.205	105	9869	80.229	ug/l	99
85) sec-Butylbenzene	13.340	105	6297	40.701	ug/l	95
86) p-Isopropyltoluene	13.458	119	1853	14.251	ug/l	87

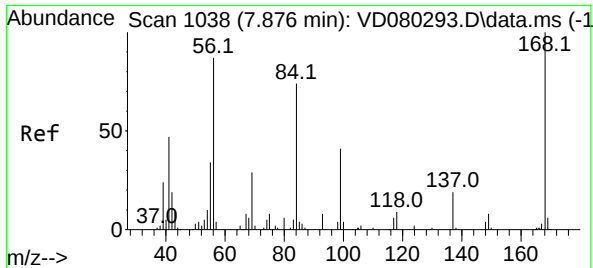
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051525\
Data File : VD080355.D
Acq On : 15 May 2025 18:10
Operator : RP/MD
Sample : Q2014-05
Misc : 4.75G/5.0ml/MSVOA_D/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

Quant Time: May 16 03:01:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050625S.M
Quant Title : SW846 8260
QLast Update : Wed May 07 08:57:11 2025
Response via : Initial Calibration

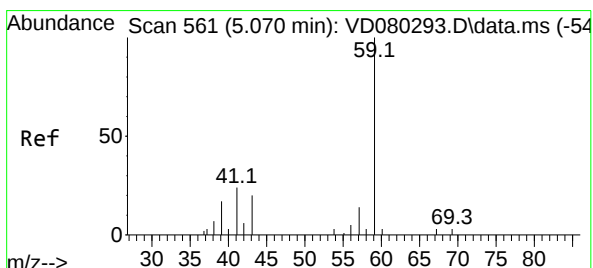
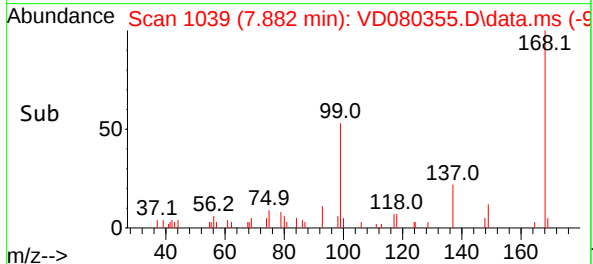
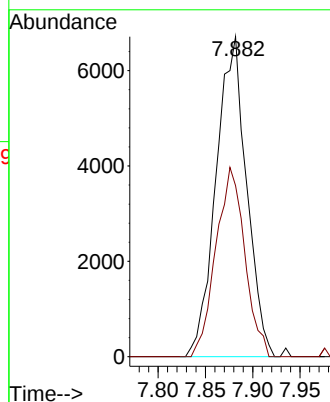
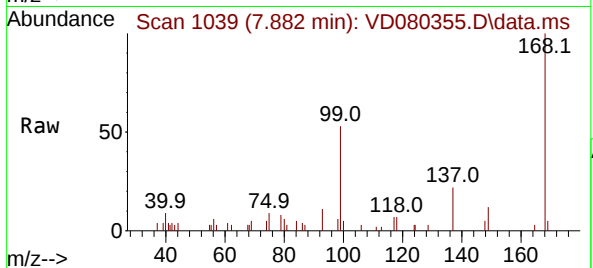




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.882 min Scan# 1039
Delta R.T. 0.007 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

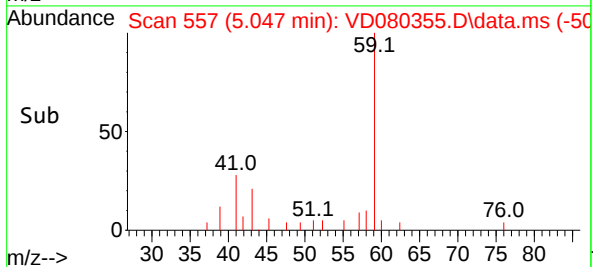
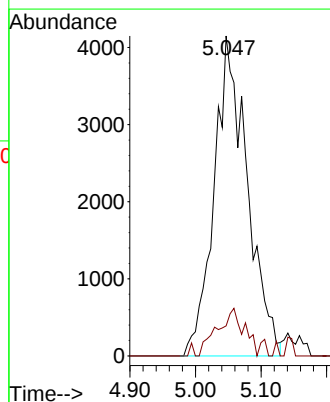
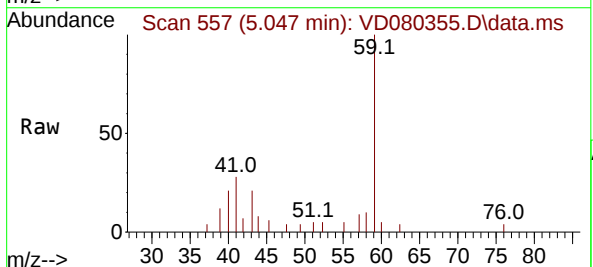
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

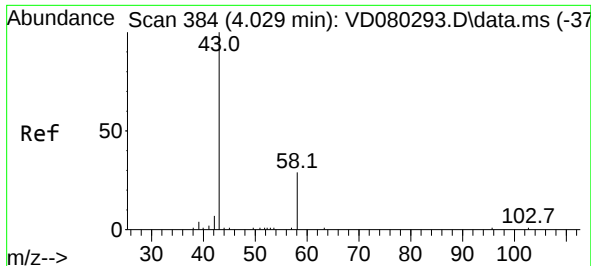
Tgt Ion:168 Resp: 15027
Ion Ratio Lower Upper
168 100
99 53.4 46.0 69.0



#11
Tert butyl alcohol
Concen: 1233.907 ug/l
RT: 5.047 min Scan# 557
Delta R.T. -0.011 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

Tgt Ion: 59 Resp: 14550
Ion Ratio Lower Upper
59 100
57 12.0 4.8 7.2#

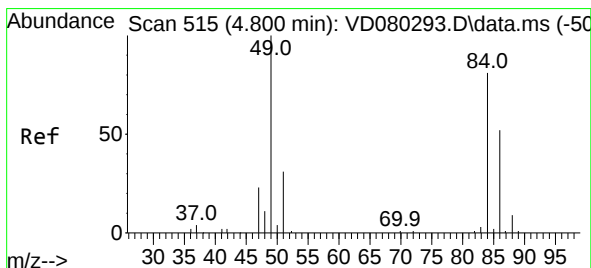
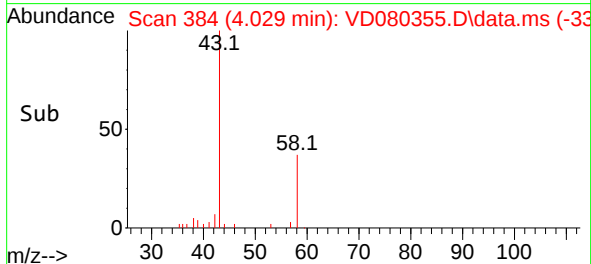
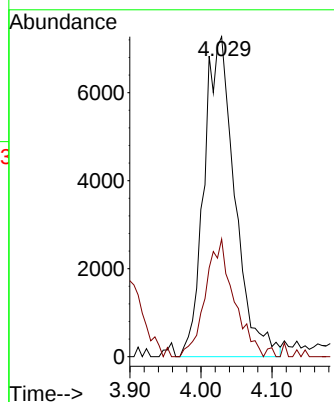
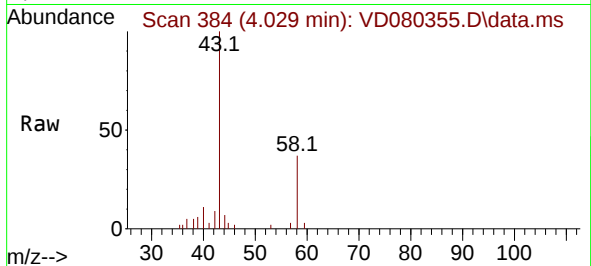




#16
Acetone
Concen: 719.661 ug/l
RT: 4.029 min Scan# 384
Delta R.T. 0.006 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

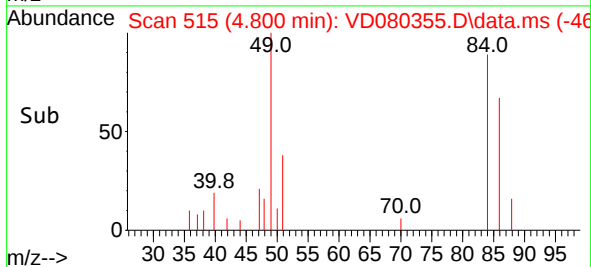
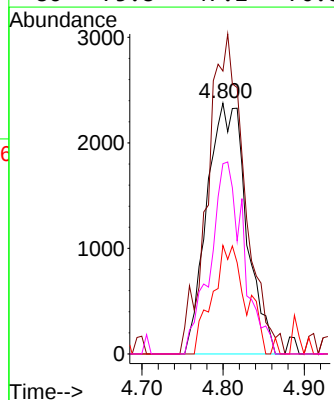
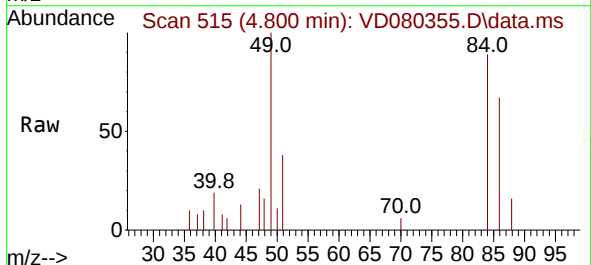
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

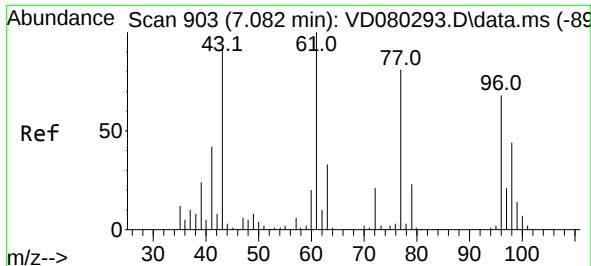
Tgt Ion: 43 Resp: 21924
Ion Ratio Lower Upper
43 100
58 36.7 25.4 38.2



#20
Methylene Chloride
Concen: 37.573 ug/l
RT: 4.800 min Scan# 515
Delta R.T. -0.005 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

Tgt Ion: 84 Resp: 7995
Ion Ratio Lower Upper
84 100
49 112.8 86.5 129.7
51 43.3 26.9 40.3#
86 75.8 47.2 70.8#

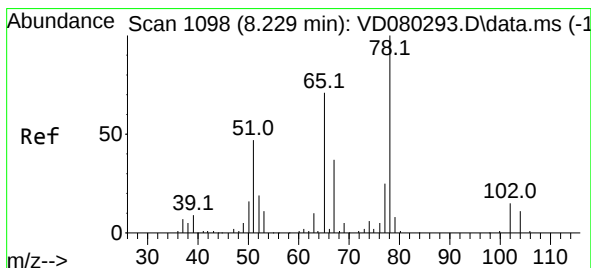
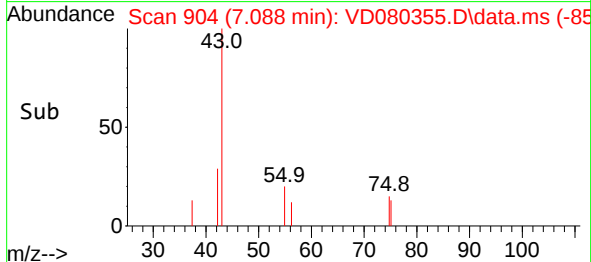
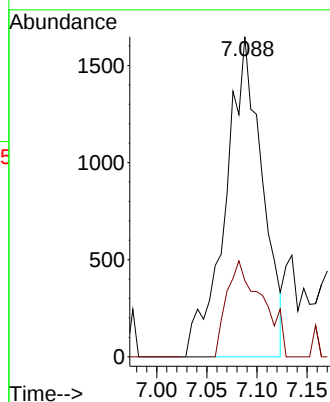
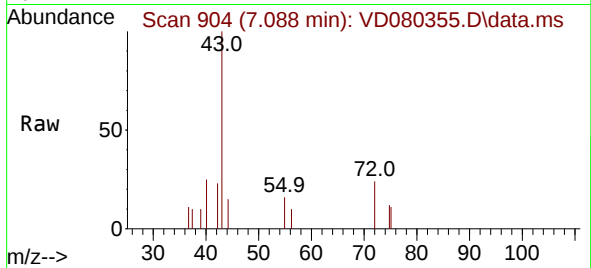




#25
2-Butanone
Concen: 78.534 ug/l
RT: 7.088 min Scan# 904
Delta R.T. 0.001 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

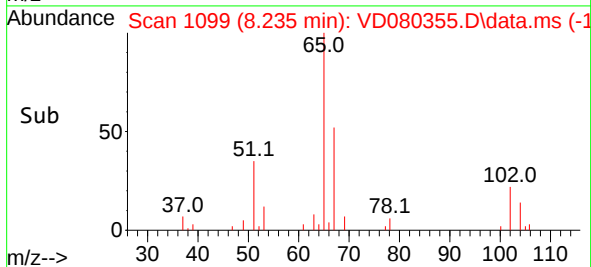
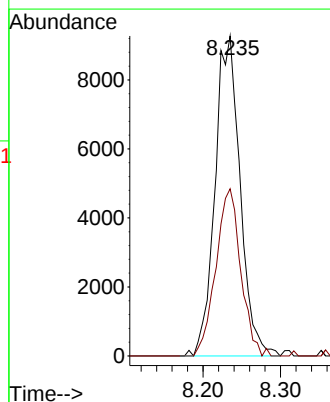
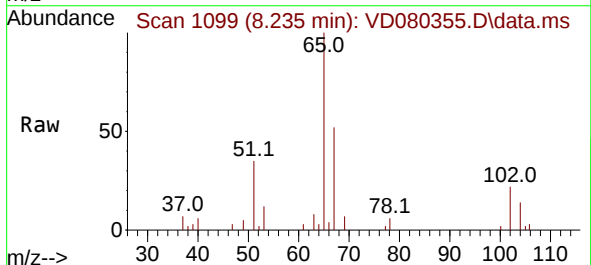
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

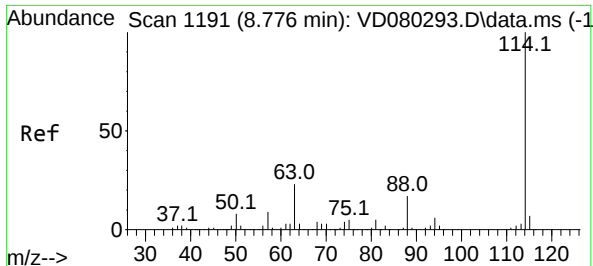
Tgt Ion: 43 Resp: 4199
Ion Ratio Lower Upper
43 100
72 23.8 22.3 33.5



#33
1,2-Dichloroethane-d4
Concen: 107.603 ug/l
RT: 8.235 min Scan# 1099
Delta R.T. 0.007 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

Tgt Ion: 65 Resp: 20910
Ion Ratio Lower Upper
65 100
67 51.8 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.776 min Scan# 1191

Delta R.T. 0.001 min

Lab File: VD080355.D

Acq: 15 May 2025 18:10

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0145

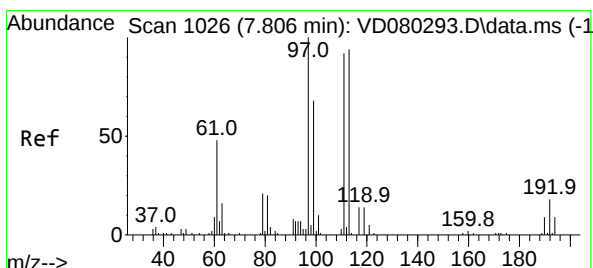
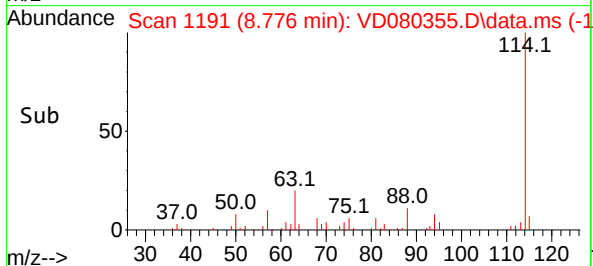
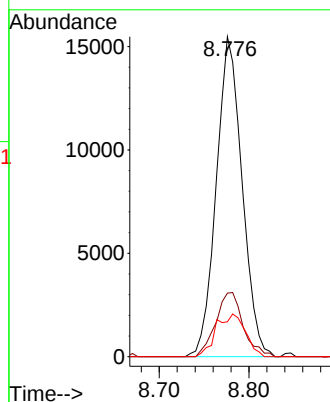
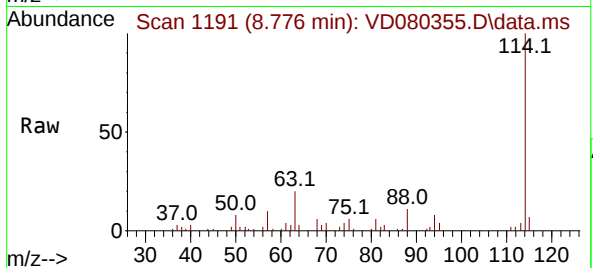
Tgt Ion:114 Resp: 30915

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.8

88 10.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 98.415 ug/l

RT: 7.811 min Scan# 1027

Delta R.T. 0.006 min

Lab File: VD080355.D

Acq: 15 May 2025 18:10

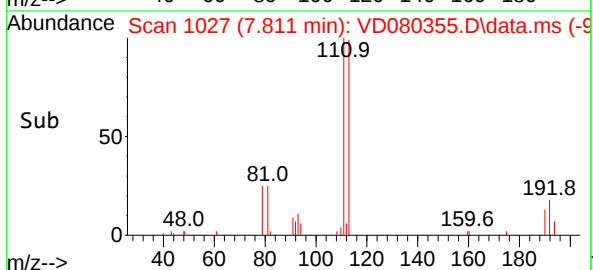
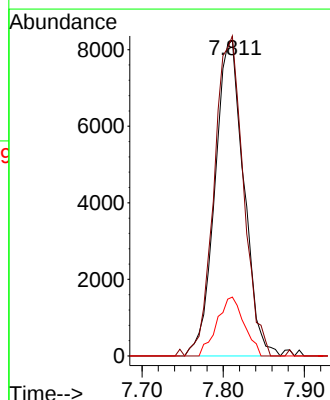
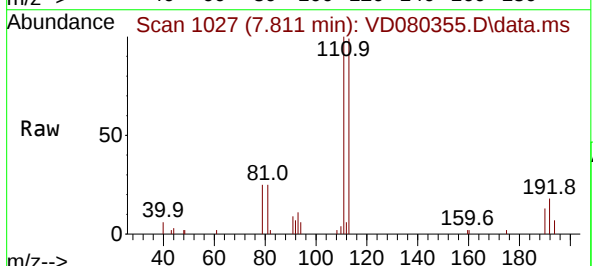
Tgt Ion:113 Resp: 20392

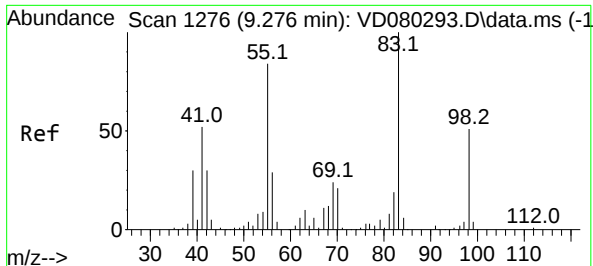
Ion Ratio Lower Upper

113 100

111 102.5 82.5 123.7

192 17.5 16.6 25.0





#39

Methylcyclohexane

Concen: 12.431 ug/l

RT: 9.270 min Scan# 11

Delta R.T. -0.005 min

Lab File: VD080355.D

Acq: 15 May 2025 18:10

Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0145

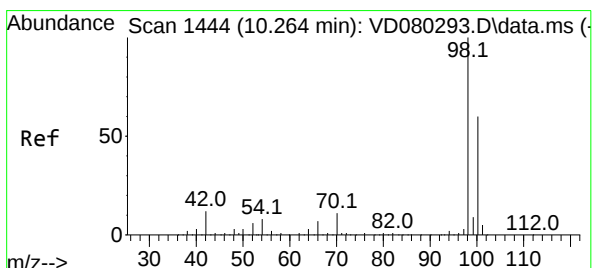
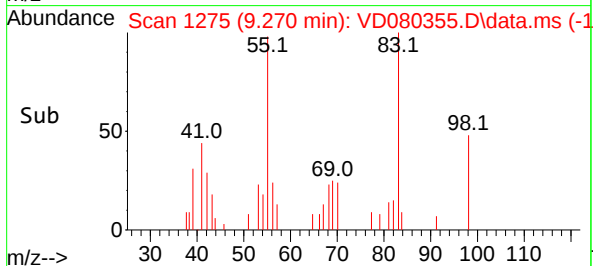
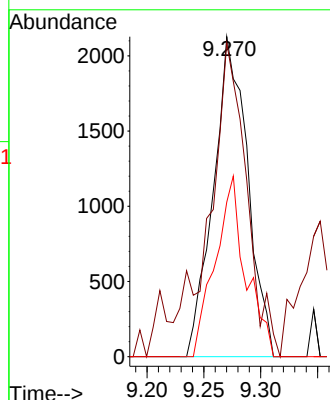
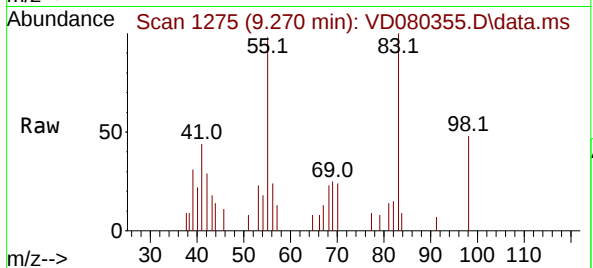
Tgt Ion: 83 Resp: 4467

Ion Ratio Lower Upper

83 100

55 98.1 62.0 93.0#

98 48.3 38.7 58.1



#50

Toluene-d8

Concen: 24.760 ug/l

RT: 10.270 min Scan# 1445

Delta R.T. 0.001 min

Lab File: VD080355.D

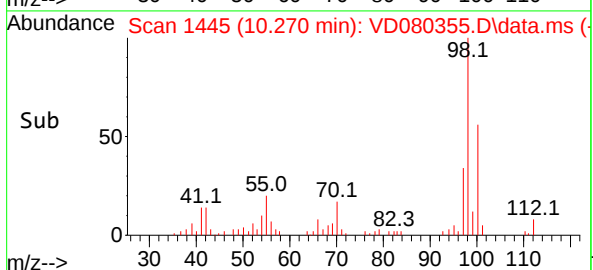
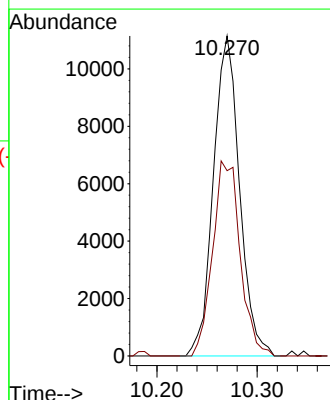
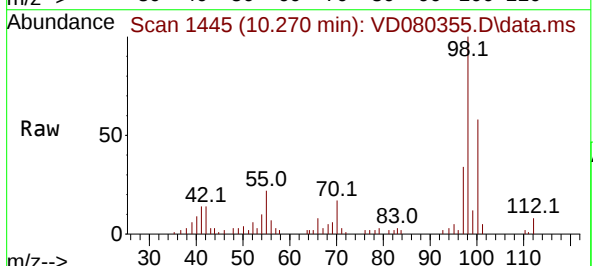
Acq: 15 May 2025 18:10

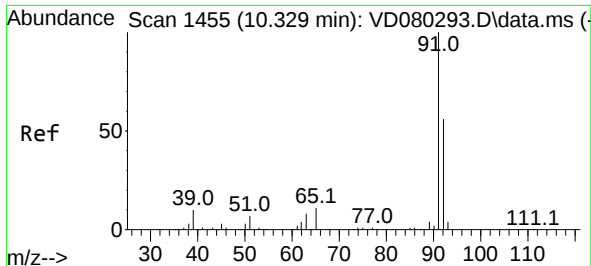
Tgt Ion: 98 Resp: 20214

Ion Ratio Lower Upper

98 100

100 64.1 50.2 75.4

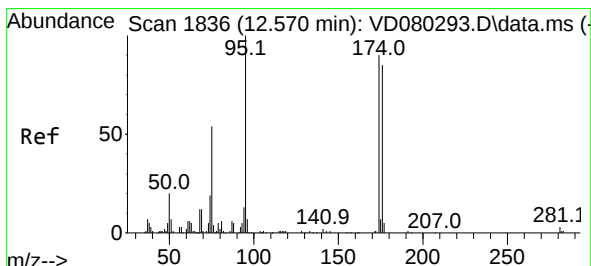
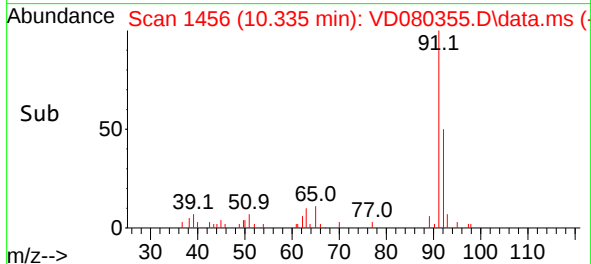
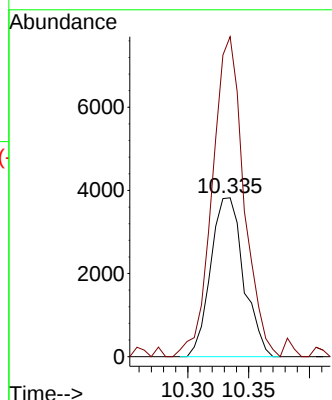
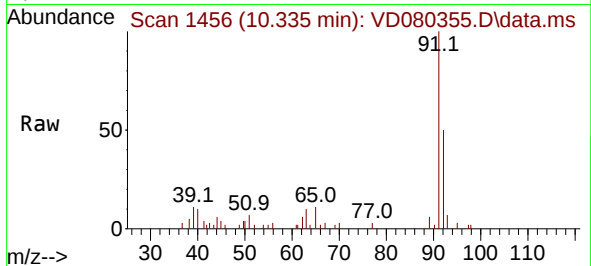




#52
Toluene
Concen: 12.302 ug/l
RT: 10.335 min Scan# 1455
Delta R.T. 0.001 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

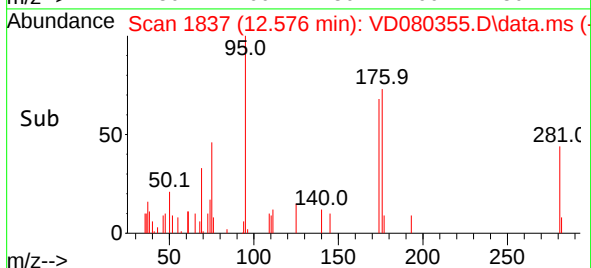
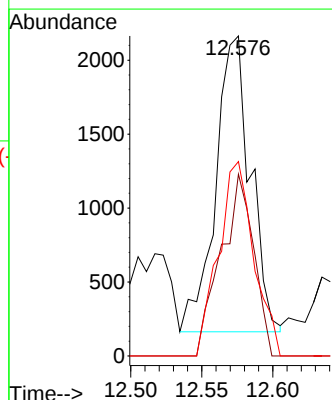
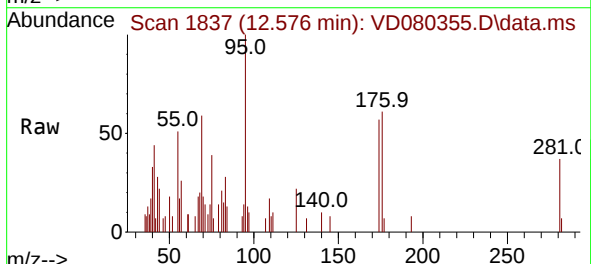
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

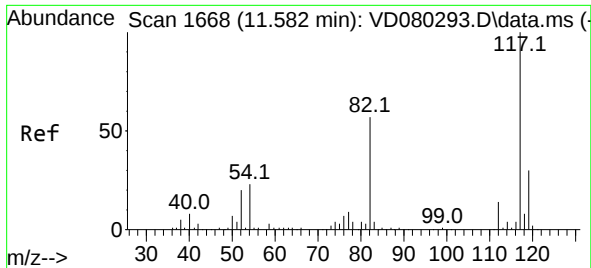
Tgt Ion: 92 Resp: 7191
Ion Ratio Lower Upper
92 100
91 193.3 139.3 208.9



#62
4-Bromofluorobenzene
Concen: 13.006 ug/l
RT: 12.576 min Scan# 1837
Delta R.T. 0.007 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

Tgt Ion: 95 Resp: 3408
Ion Ratio Lower Upper
95 100
174 57.5 0.0 173.4
176 66.5 0.0 166.6

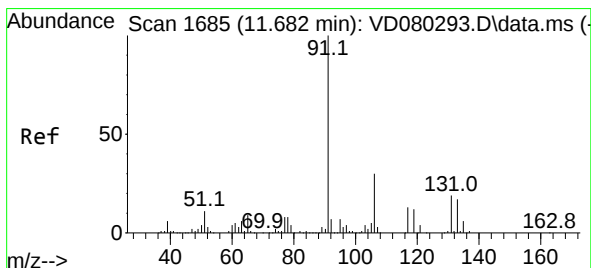
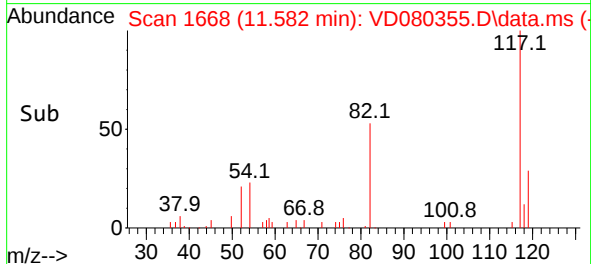
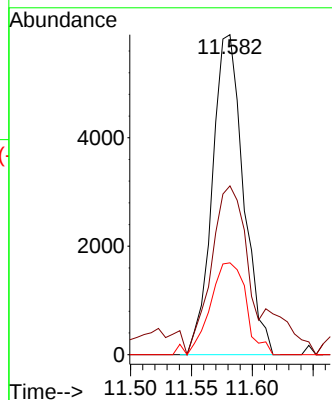
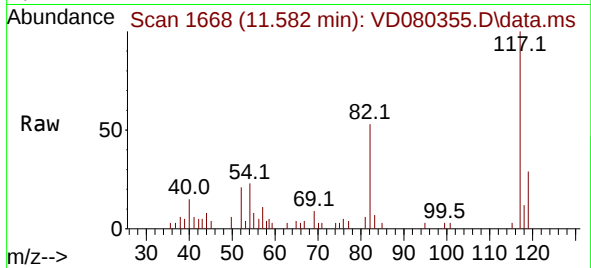




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 117
Delta R.T. 0.001 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

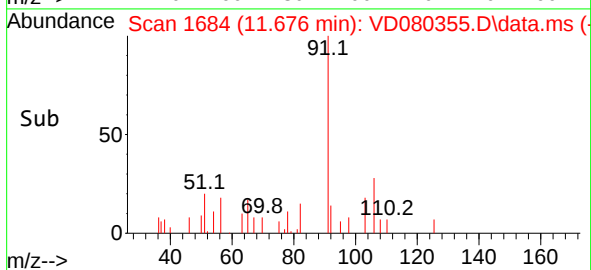
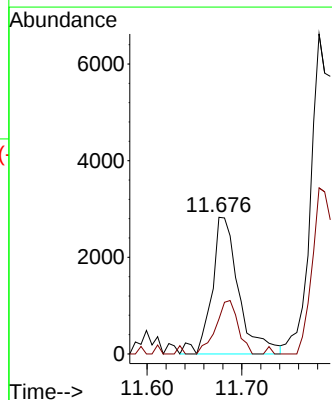
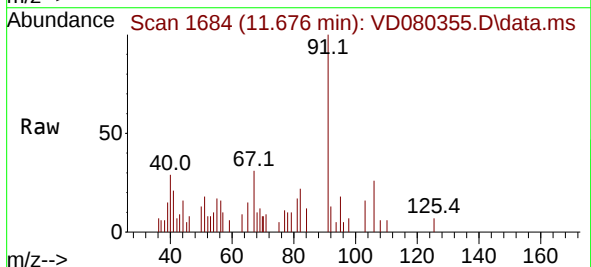
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

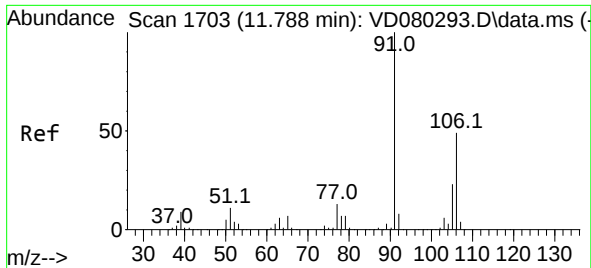
Tgt Ion:117 Resp: 10522
Ion Ratio Lower Upper
117 100
82 45.2 45.8 68.6#
119 28.7 26.2 39.2



#67
Ethyl Benzene
Concen: 14.032 ug/l
RT: 11.676 min Scan# 1684
Delta R.T. -0.005 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

Tgt Ion: 91 Resp: 5571
Ion Ratio Lower Upper
91 100
106 25.5 23.6 35.4

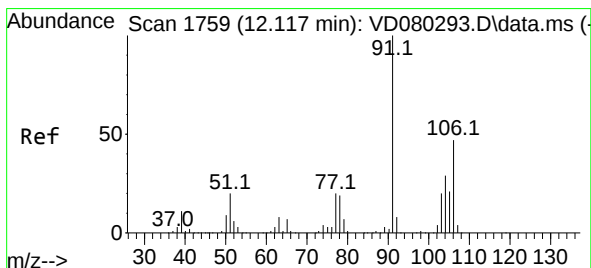
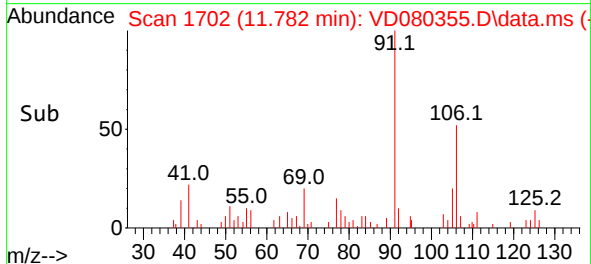
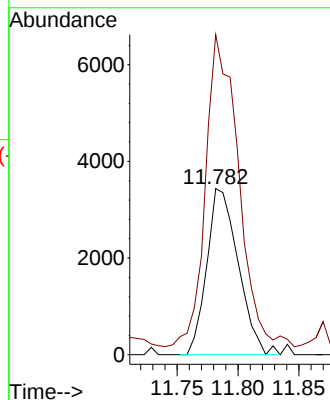
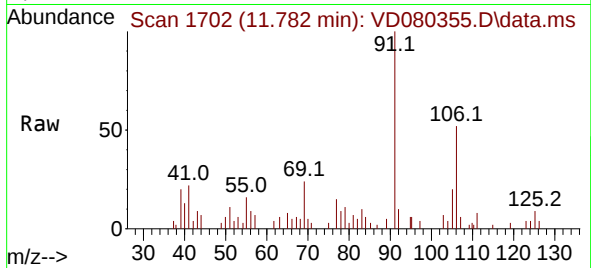




#68
m/p-Xylenes
Concen: 39.965 ug/l
RT: 11.782 min Scan# 1702
Delta R.T. -0.011 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

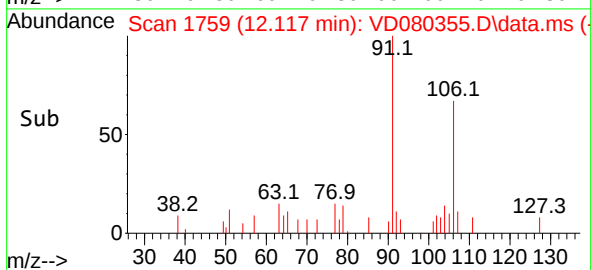
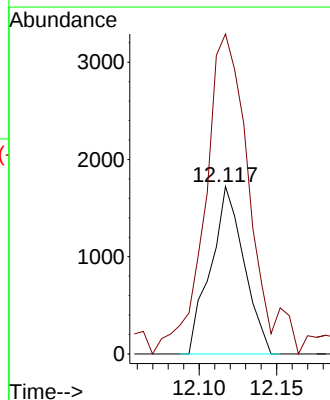
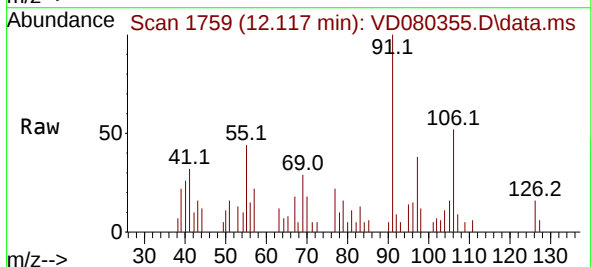
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

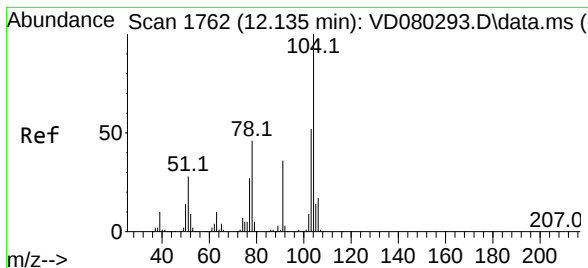
Tgt Ion:106 Resp: 6161
Ion Ratio Lower Upper
106 100
91 213.7 162.6 244.0



#69
o-Xylene
Concen: 18.237 ug/l
RT: 12.117 min Scan# 1759
Delta R.T. 0.001 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

Tgt Ion:106 Resp: 2569
Ion Ratio Lower Upper
106 100
91 253.8 110.5 331.5





#70

Styrene

Concen: 8.990 ug/l

RT: 12.135 min Scan# 11

Delta R.T. 0.001 min

Lab File: VD080355.D

Acq: 15 May 2025 18:10

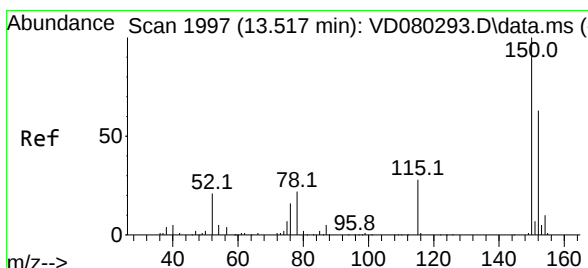
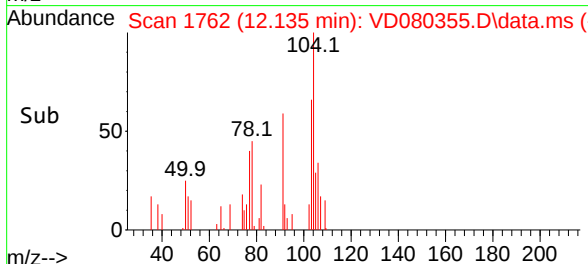
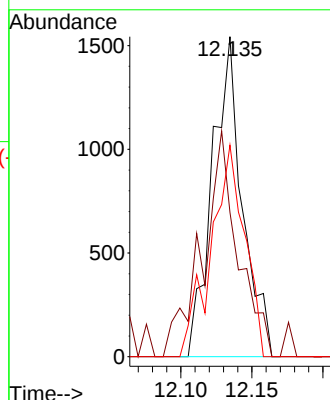
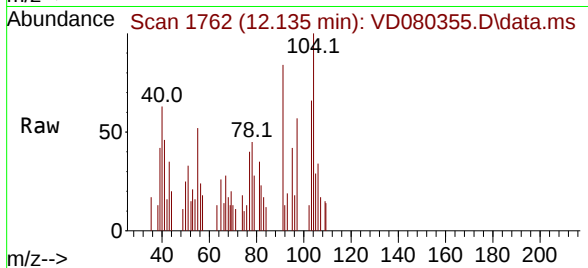
Instrument :

MSVOA_D

ClientSampleId :

MOO-25-0145

Tgt Ion:104	Resp:	2274
Ion Ratio	Lower	Upper
104	100	
78	82.6	39.8 59.8#
103	73.9	45.2 67.8#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

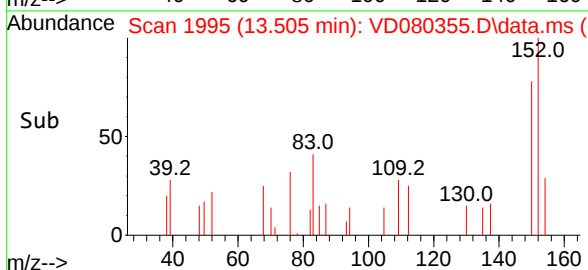
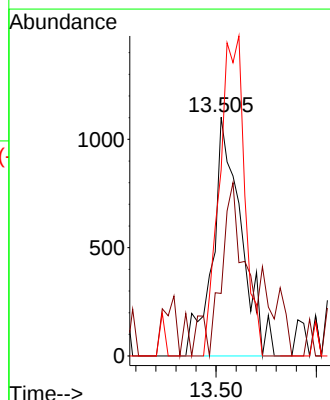
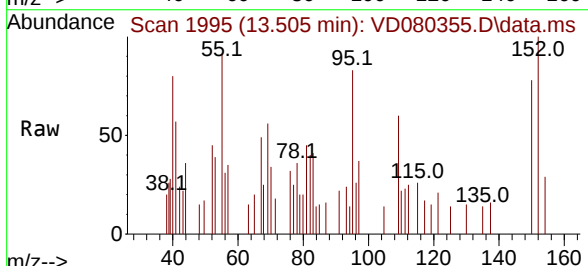
RT: 13.505 min Scan# 1995

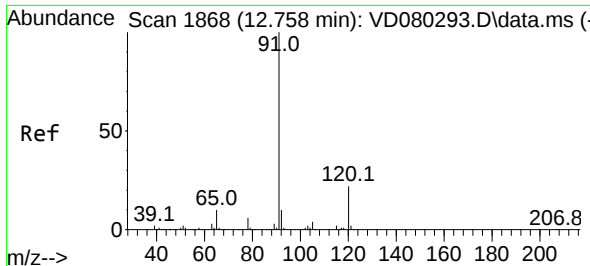
Delta R.T. -0.011 min

Lab File: VD080355.D

Acq: 15 May 2025 18:10

Tgt Ion:152	Resp:	2173
Ion Ratio	Lower	Upper
152	100	
115	56.7	28.9 86.8
150	118.3	0.0 354.8

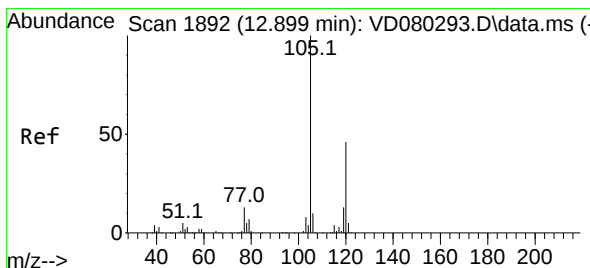
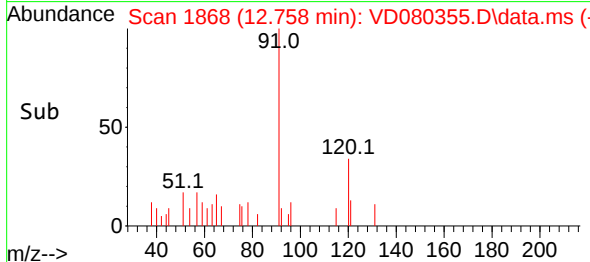
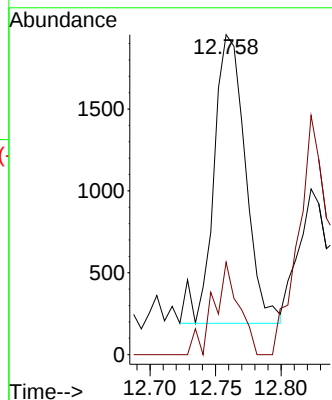
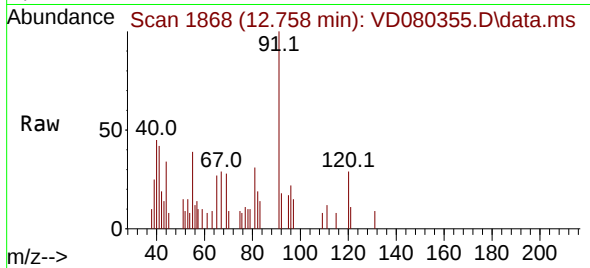




#78
n-propylbenzene
Concen: 16.784 ug/l
RT: 12.758 min Scan# 1868
Delta R.T. -0.005 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

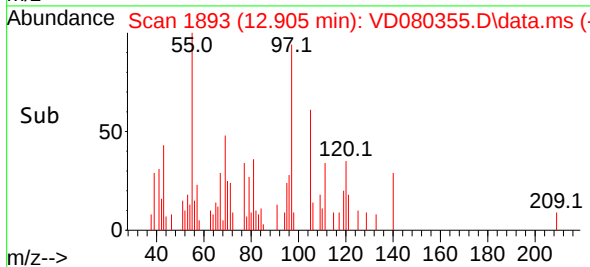
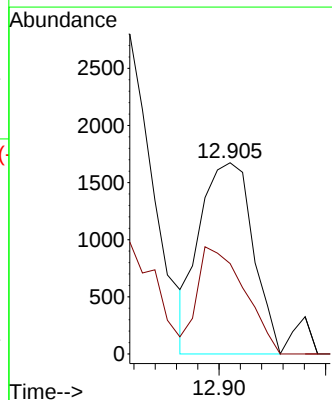
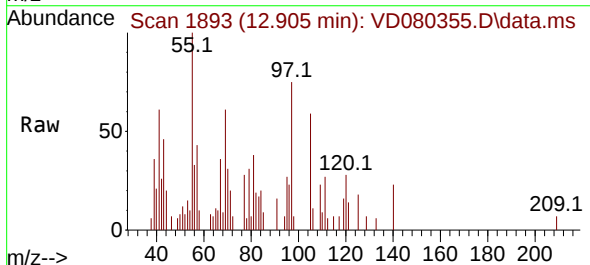
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

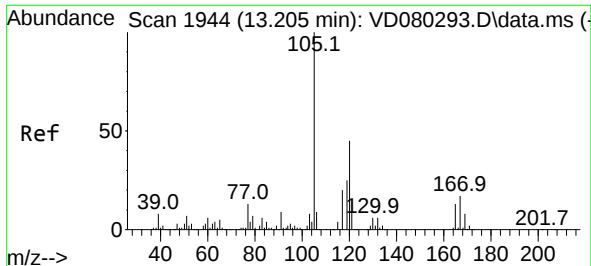
Tgt Ion: 91 Resp: 2969
Ion Ratio Lower Upper
91 100
120 25.5 11.2 33.5



#80
1,3,5-Trimethylbenzene
Concen: 24.179 ug/l
RT: 12.905 min Scan# 1893
Delta R.T. 0.001 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

Tgt Ion:105 Resp: 2907
Ion Ratio Lower Upper
105 100
120 49.7 25.0 75.0

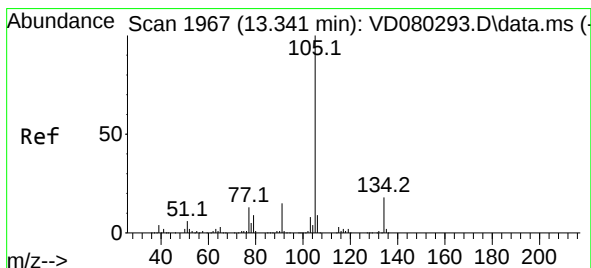
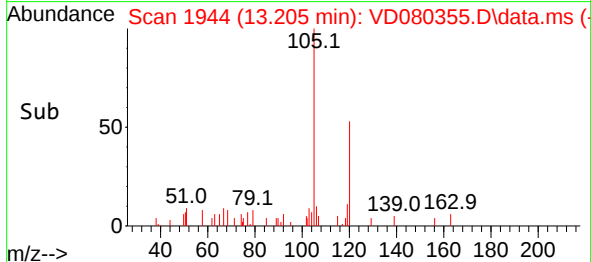
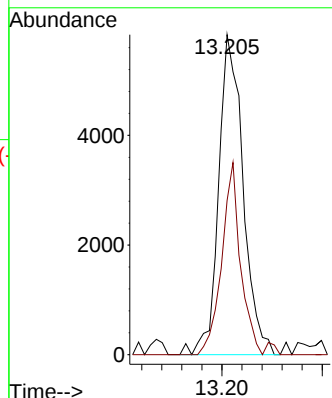
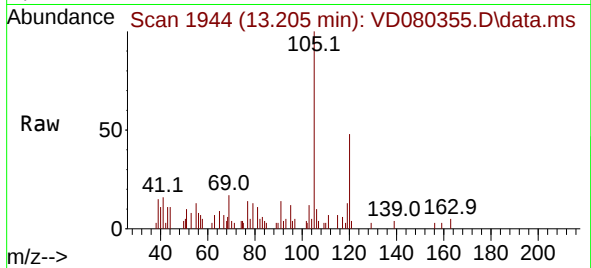




#84
1,2,4-Trimethylbenzene
Concen: 80.229 ug/l
RT: 13.205 min Scan# 1944
Delta R.T. -0.005 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

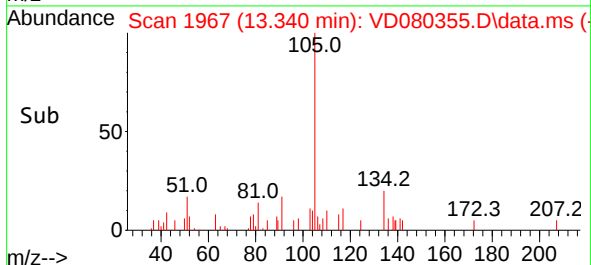
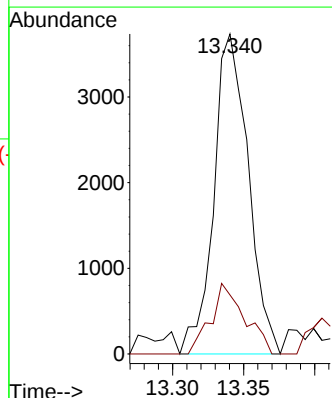
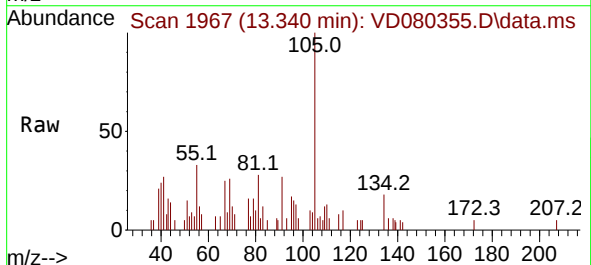
Instrument :
MSVOA_D
ClientSampleId :
MOO-25-0145

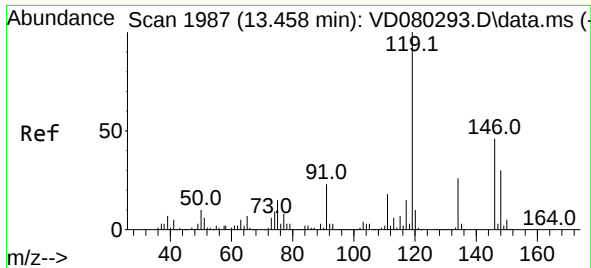
Tgt Ion:105 Resp: 9869
Ion Ratio Lower Upper
105 100
120 46.0 22.8 68.4



#85
sec-Butylbenzene
Concen: 40.701 ug/l
RT: 13.340 min Scan# 1967
Delta R.T. 0.000 min
Lab File: VD080355.D
Acq: 15 May 2025 18:10

Tgt Ion:105 Resp: 6297
Ion Ratio Lower Upper
105 100
134 21.7 9.8 29.3





#86
 p-Isopropyltoluene
 Concen: 14.251 ug/l
 RT: 13.458 min Scan# 1987
 Delta R.T. 0.001 min
 Lab File: VD080355.D
 Acq: 15 May 2025 18:10

Instrument :
 MSVOA_D
 ClientSampleId :
 MOO-25-0145

Tgt Ion:119	Resp:	1853
Ion	Ratio	Lower Upper
119	100	
134	33.4	13.1 39.1
91	29.6	12.2 36.4

