

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061825\
 Data File : VD080453.D
 Acq On : 18 Jun 2025 13:13
 Operator : RP/MD
 Sample : VD0618SBL01
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VBLK209

Quant Time: Jun 19 09:20:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061825SMA.M
 Quant Title : SFAM01.0
 QLast Update : Thu Jun 19 09:10:19 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.776	114	193341	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.582	117	188613	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.517	152	84291	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.276	65	58833	17.95	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	71.80%		
7) Chloroethane-d5	2.806	69	53581	19.16	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	76.64%		
11) 1,1-Dichloroethene-d2	3.917	65	20403	18.45	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	73.80%		
21) 2-Butanone-d5	6.988	46	21233	39.07	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	78.14%		
24) Chloroform-d	7.570	84	97230	18.26	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	73.04%		
26) 1,2-Dichloroethane-d4	8.229	65	54715	20.10	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	80.40%		
32) Benzene-d6	8.205	84	204536	19.72	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	78.88%		
36) 1,2-Dichloropropane-d6	9.211	67	67379	19.80	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	79.20%		
41) Toluene-d8	10.270	98	184340	19.01	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	76.04%		
43) trans-1,3-Dichloroprop...	10.523	79	27934	19.70	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	78.80%		
47) 2-Hexanone-d5	10.876	63	18987	36.74	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	73.48%		
56) 1,1,2,2-Tetrachloroeth...	12.646	84	58235	18.92	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	75.68%		
66) 1,2-Dichlorobenzene-d4	13.811	152	66266	21.68	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	86.72%		
Target Compounds						Qvalue
6) Bromomethane	2.700	94	844	0.39	ug/L	81
13) Acetone	4.017	43	554	1.20	ug/L	80
16) Methylene chloride	4.806	84	10037	3.35	ug/L	92
25) Chloroform	7.599	83	13989	2.55	ug/L	93
39) cis-1,3-Dichloropropene	9.976	75	1814	0.42	ug/L	88
42) Toluene	10.335	91	1455	0.13	ug/L	100
44) trans-1,3-Dichloropropene	10.523	75	1951	0.53	ug/L #	65
51) Chlorobenzene	11.605	112	1145	0.15	ug/L #	88
52) Ethylbenzene	11.793	91	1198	0.10	ug/L	96
55) Styrene	12.140	104	1024	0.13	ug/L	92
60) Isopropylbenzene	12.417	105	1205	0.12	ug/L #	81
62) 1,3,5-Trimethylbenzene	12.905	105	1063	0.14	ug/L	98
63) 1,2,4-Trimethylbenzene	12.905	105	1063	0.14	ug/L	93
64) 1,3-Dichlorobenzene	13.452	146	1144	0.22	ug/L	92
65) 1,4-Dichlorobenzene	13.540	146	1061	0.20	ug/L	85
67) 1,2-Dichlorobenzene	13.829	146	985	0.21	ug/L #	86
69) 1,3,5-Trichlorobenzene	14.593	180	667	0.18	ug/L #	25
70) 1,2,4-trichlorobenzene	15.105	180	985	0.33	ug/L	91

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ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
VBLK209

Quant Time: Jun 19 09:20:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061825SMA.M
Quant Title : SFAM01.0
QLast Update : Thu Jun 19 09:10:19 2025
Response via : Initial Calibration

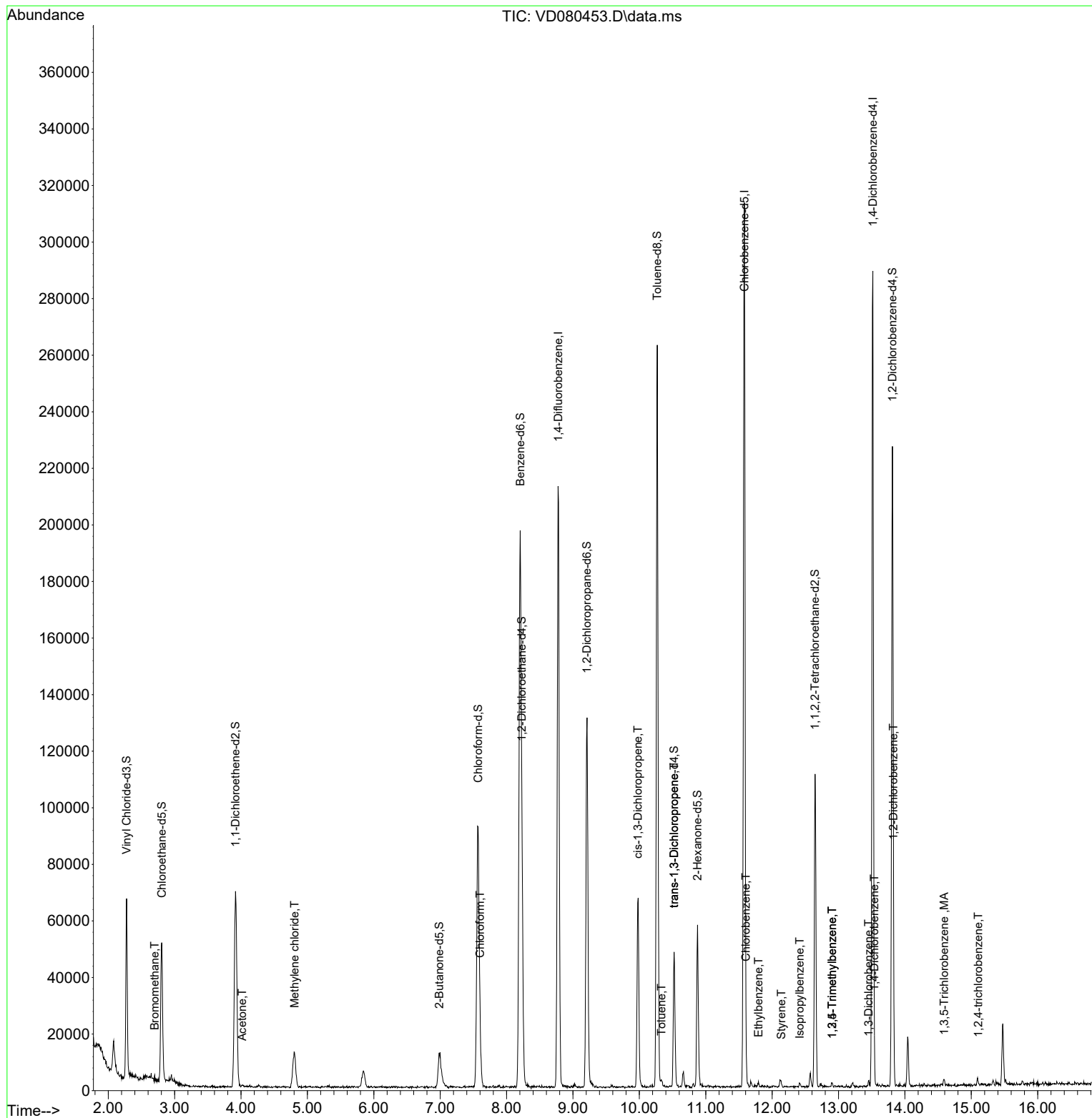
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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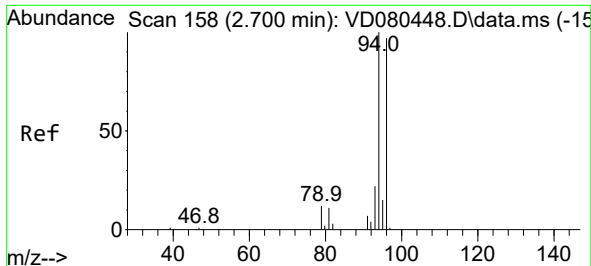
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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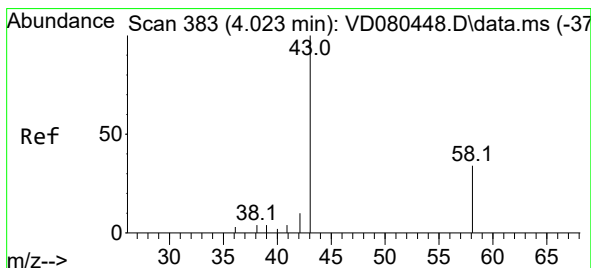
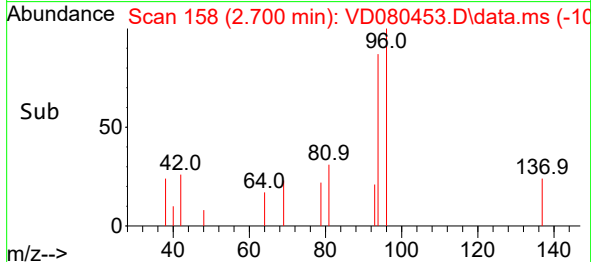
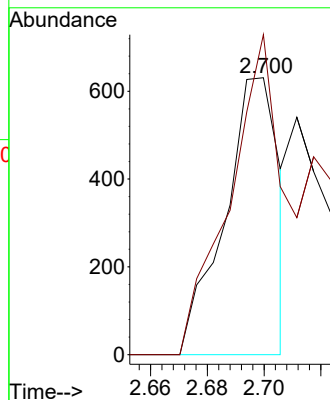
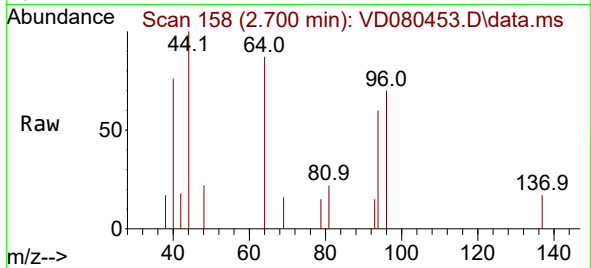




#6
Bromomethane
Concen: 0.39 ug/L
RT: 2.700 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

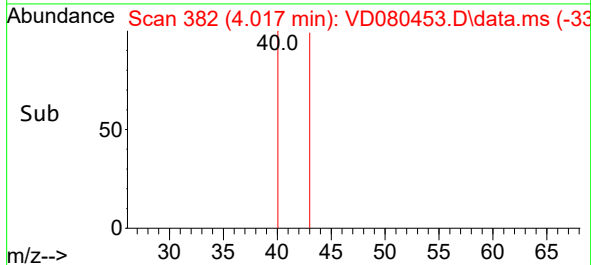
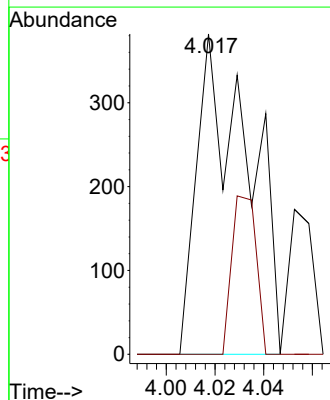
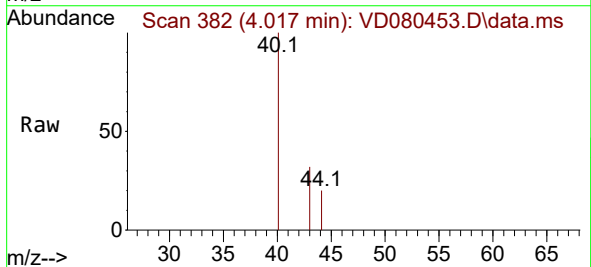
Instrument :
MSVOA_D
ClientSampleId :
VBLK209

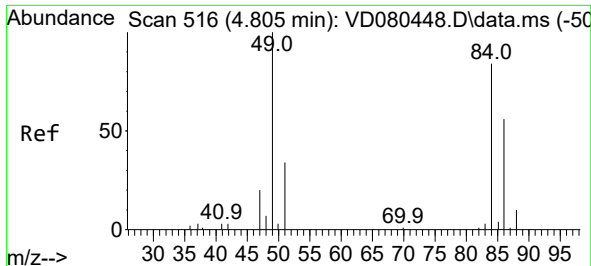
Tgt Ion: 94 Resp: 844
Ion Ratio Lower Upper
94 100
96 115.5 67.6 125.6



#13
Acetone
Concen: 1.20 ug/L
RT: 4.017 min Scan# 382
Delta R.T. -0.006 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

Tgt Ion: 43 Resp: 554
Ion Ratio Lower Upper
43 100
58 23.8 0.0 71.0

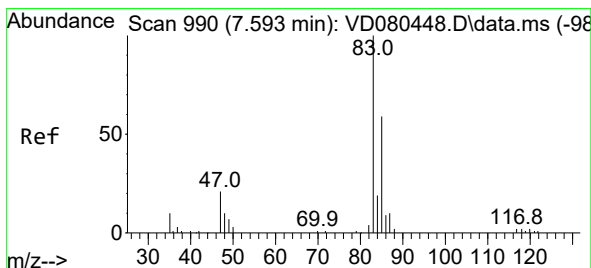
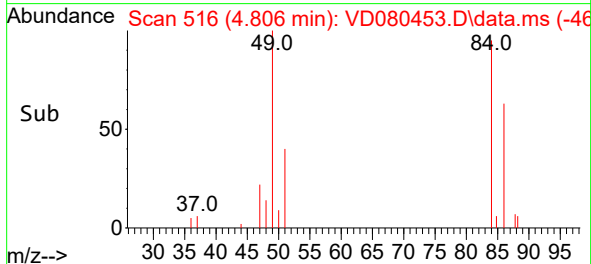
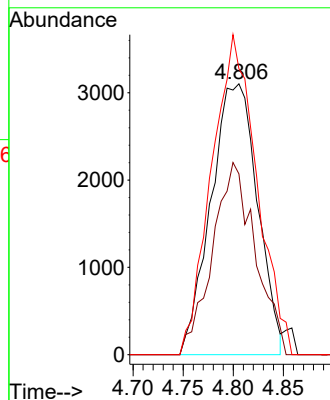
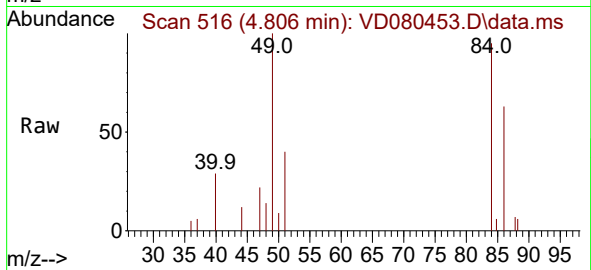




#16
Methylene chloride
Concen: 3.35 ug/L
RT: 4.806 min Scan# 516
Delta R.T. 0.001 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

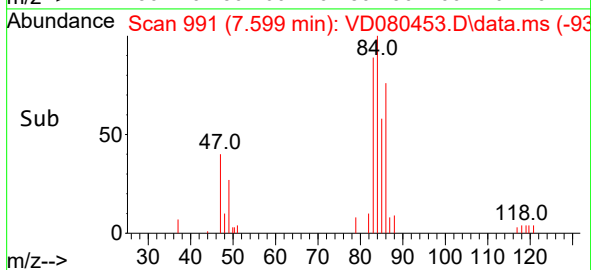
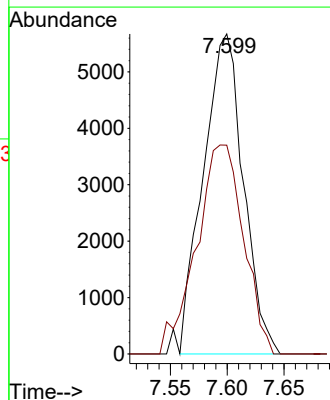
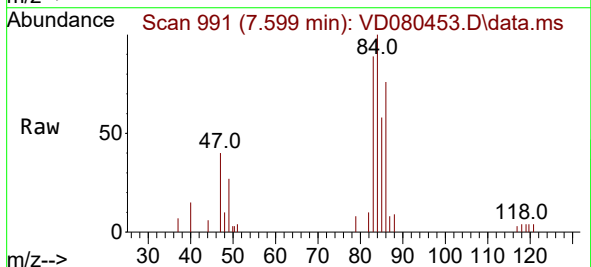
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MSVOA_D
ClientSampleId :
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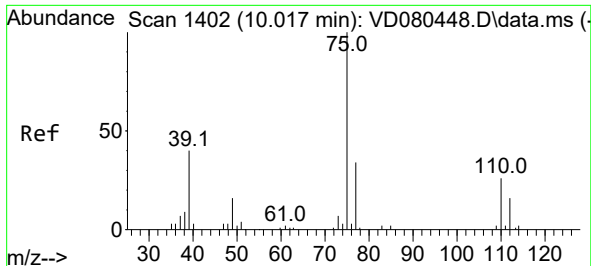
Tgt Ion: 84 Resp: 10037
Ion Ratio Lower Upper
84 100
86 66.7 46.7 86.7
49 105.5 83.0 154.1



#25
Chloroform
Concen: 2.55 ug/L
RT: 7.599 min Scan# 991
Delta R.T. 0.006 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

Tgt Ion: 83 Resp: 13989
Ion Ratio Lower Upper
83 100
85 65.3 42.0 78.0





#39

cis-1,3-Dichloropropene

Concen: 0.42 ug/L

RT: 9.976 min Scan# 11

Delta R.T. -0.041 min

Lab File: VD080453.D

Acq: 18 Jun 2025 13:13

Instrument :

MSVOA_D

ClientSampleId :

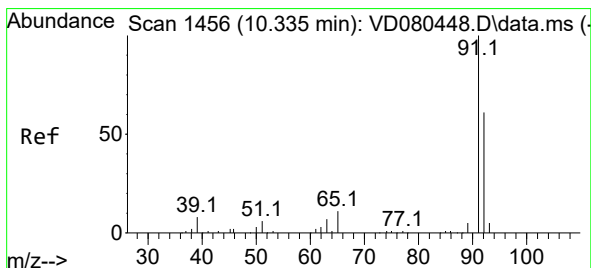
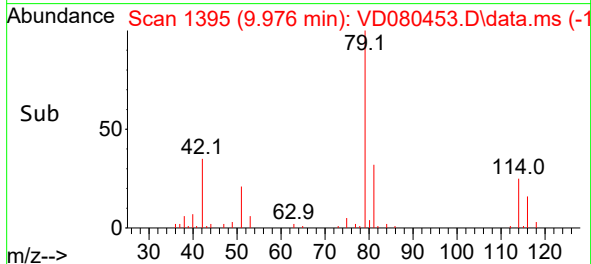
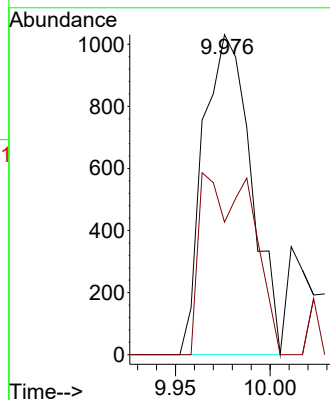
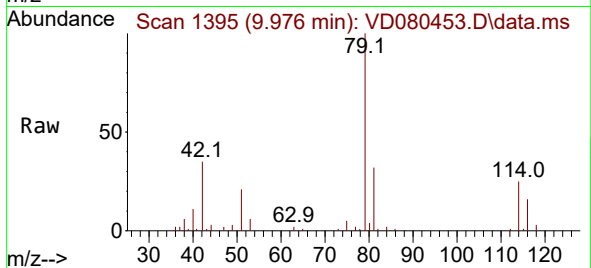
VBLK209

Tgt Ion: 75 Resp: 1814

Ion Ratio Lower Upper

75 100

77 41.4 24.1 44.7



#42

Toluene

Concen: 0.13 ug/L

RT: 10.335 min Scan# 1456

Delta R.T. -0.000 min

Lab File: VD080453.D

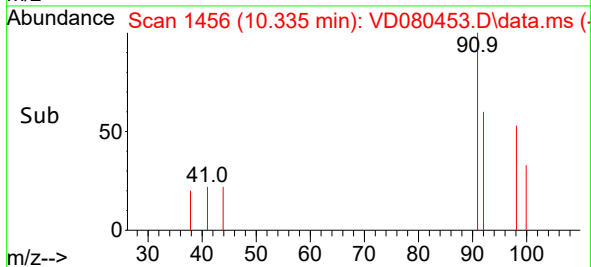
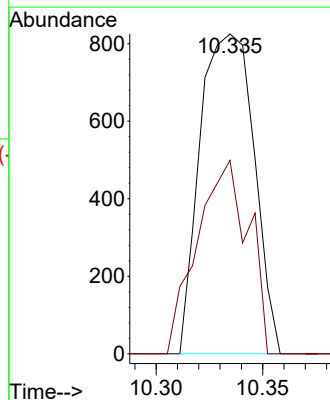
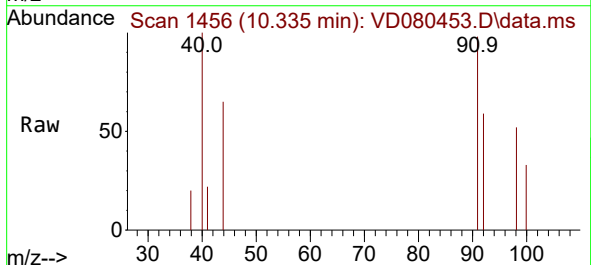
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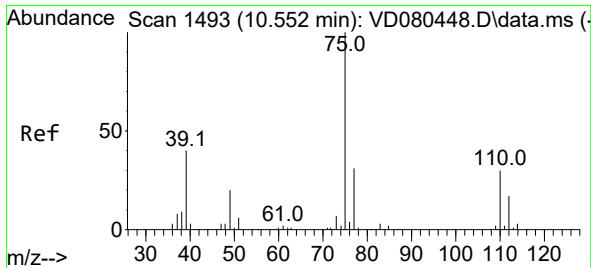
Tgt Ion: 91 Resp: 1455

Ion Ratio Lower Upper

91 100

92 60.5 42.6 79.0

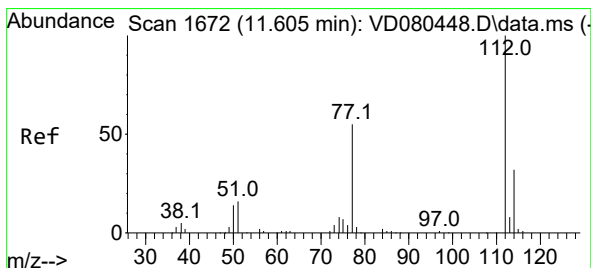
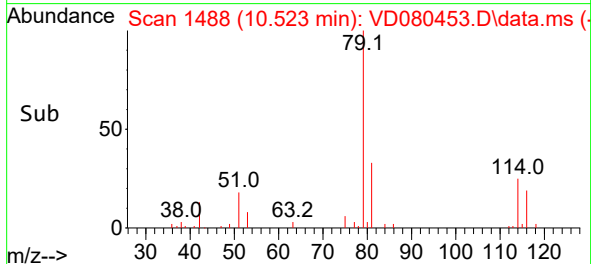
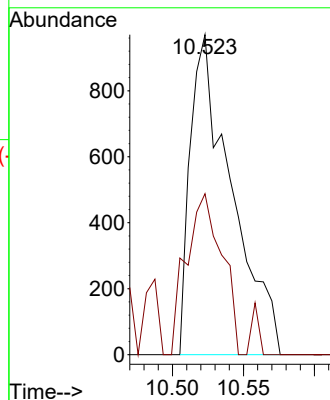
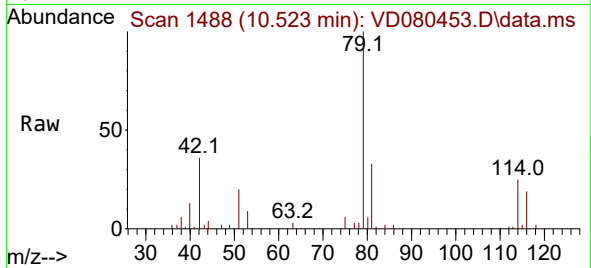




#44
trans-1,3-Dichloropropene
Concen: 0.53 ug/L
RT: 10.523 min Scan# 1493
Delta R.T. -0.029 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

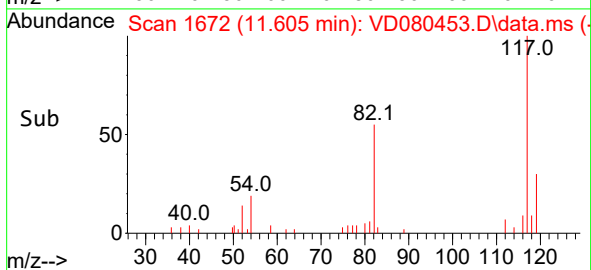
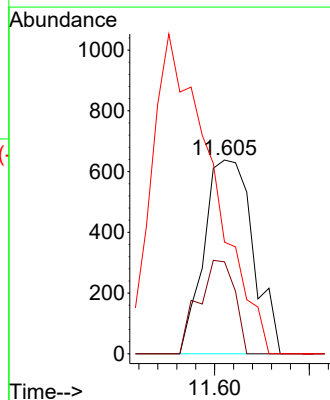
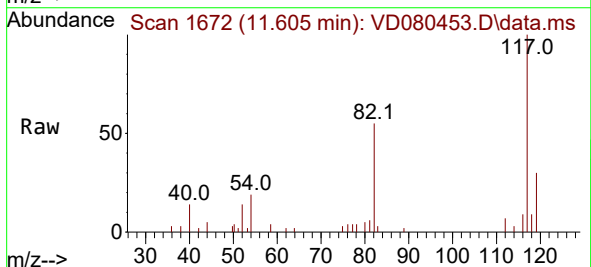
Instrument :
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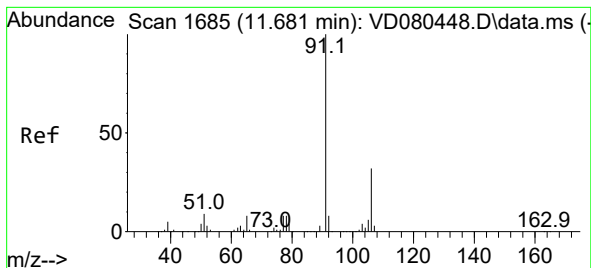
Tgt Ion: 75 Resp: 1951
Ion Ratio Lower Upper
75 100
77 50.3 21.8 40.6#



#51
Chlorobenzene
Concen: 0.15 ug/L
RT: 11.605 min Scan# 1672
Delta R.T. 0.000 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

Tgt Ion: 112 Resp: 1145
Ion Ratio Lower Upper
112 100
114 47.5 22.3 41.3#
77 57.7 44.2 66.4





#52

Ethylbenzene

Concen: 0.10 ug/L

RT: 11.793 min Scan# 1704

Delta R.T. 0.112 min

Lab File: VD080453.D

Acq: 18 Jun 2025 13:13

Instrument :

MSVOA_D

ClientSampleId :

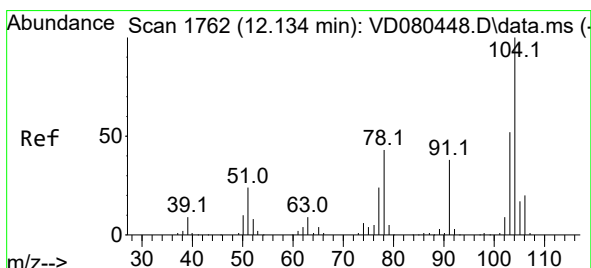
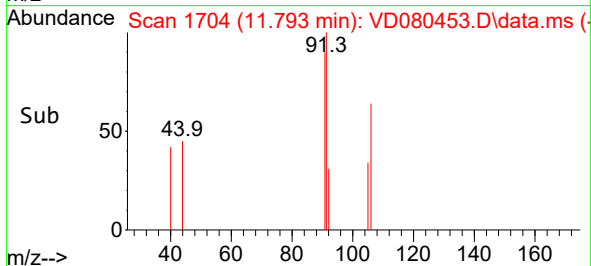
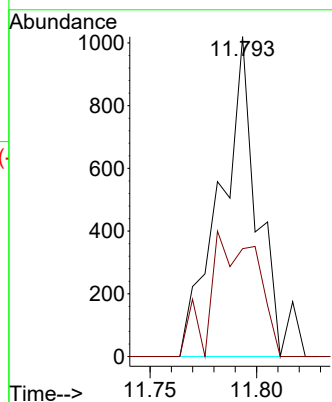
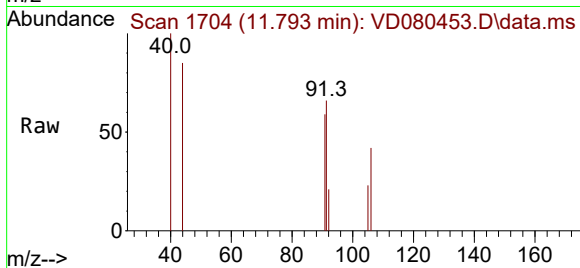
VBLK209

Tgt Ion: 91 Resp: 1198

Ion Ratio Lower Upper

91 100

106 33.7 22.1 41.1



#55

Styrene

Concen: 0.13 ug/L

RT: 12.140 min Scan# 1763

Delta R.T. 0.006 min

Lab File: VD080453.D

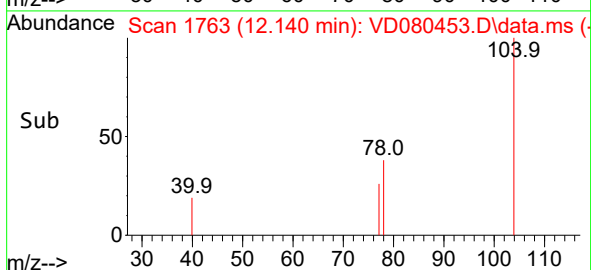
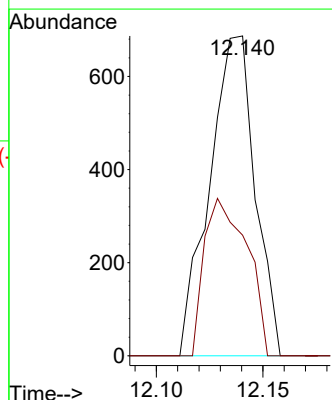
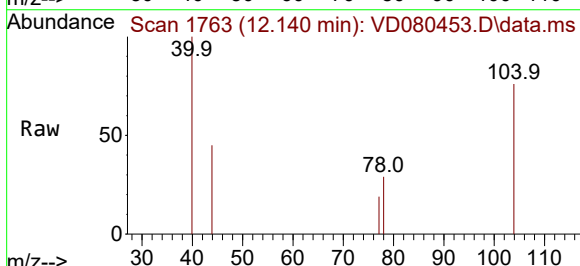
Acq: 18 Jun 2025 13:13

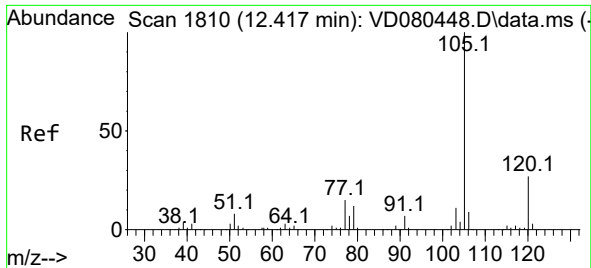
Tgt Ion: 104 Resp: 1024

Ion Ratio Lower Upper

104 100

78 37.7 30.0 55.8

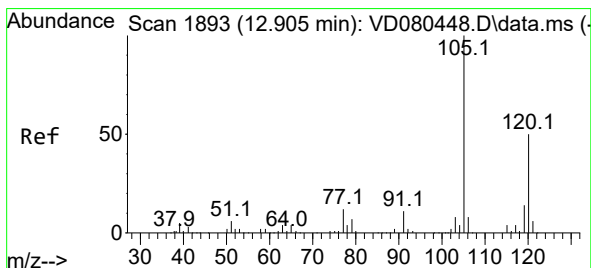
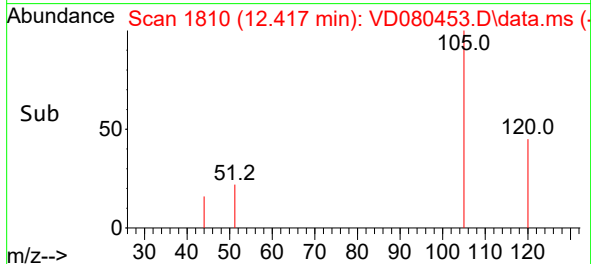
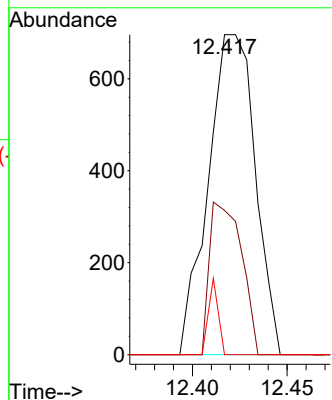
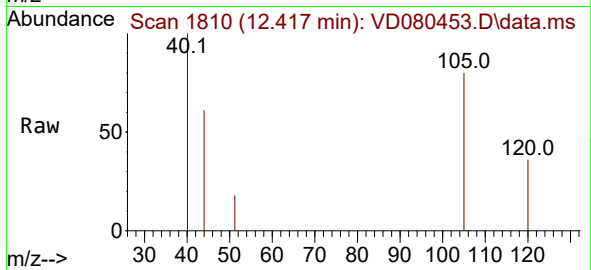




#60
Isopropylbenzene
Concen: 0.12 ug/L
RT: 12.417 min Scan# 1810
Delta R.T. -0.000 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

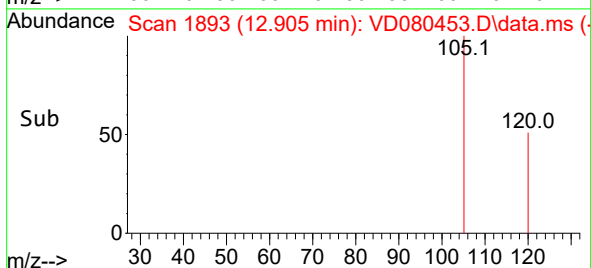
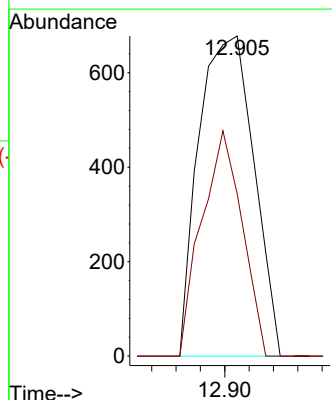
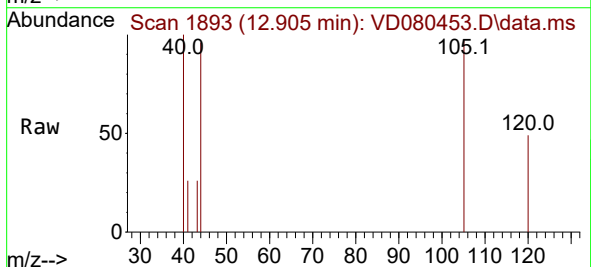
Instrument :
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VBLK209

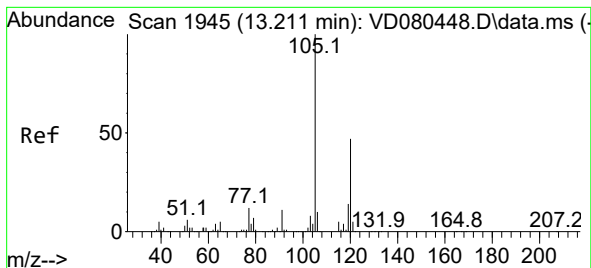
Tgt Ion:105 Resp: 1205
Ion Ratio Lower Upper
105 100
120 32.3 22.1 33.1
77 0.0 12.1 18.1#



#62
1,3,5-Trimethylbenzene
Concen: 0.14 ug/L
RT: 12.905 min Scan# 1893
Delta R.T. 0.000 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

Tgt Ion:105 Resp: 1063
Ion Ratio Lower Upper
105 100
120 51.7 40.1 60.1





#63

1,2,4-Trimethylbenzene

Concen: 0.14 ug/L

RT: 12.905 min Scan# 11

Delta R.T. -0.306 min

Lab File: VD080453.D

Acq: 18 Jun 2025 13:13

Instrument :

MSVOA_D

ClientSampleId :

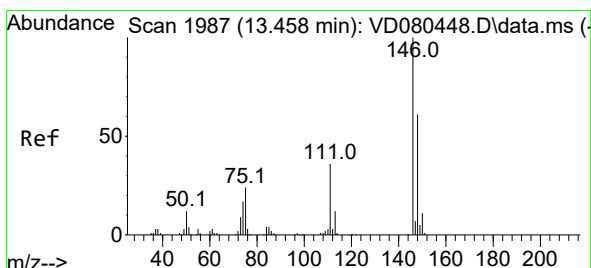
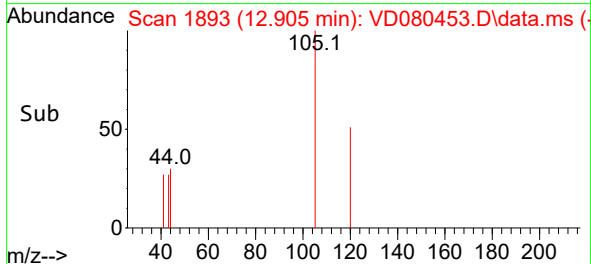
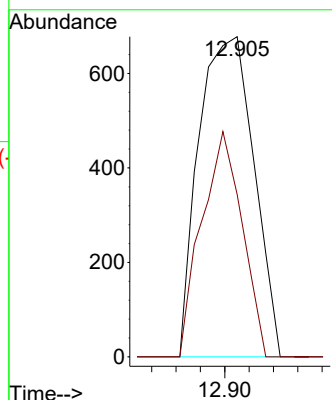
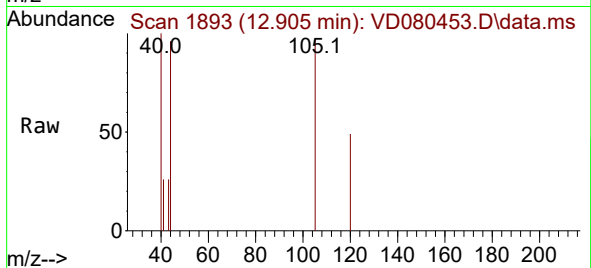
VBLK209

Tgt Ion:105 Resp: 1063

Ion Ratio Lower Upper

105 100

120 51.7 37.5 56.3



#64

1,3-Dichlorobenzene

Concen: 0.22 ug/L

RT: 13.452 min Scan# 1986

Delta R.T. -0.006 min

Lab File: VD080453.D

Acq: 18 Jun 2025 13:13

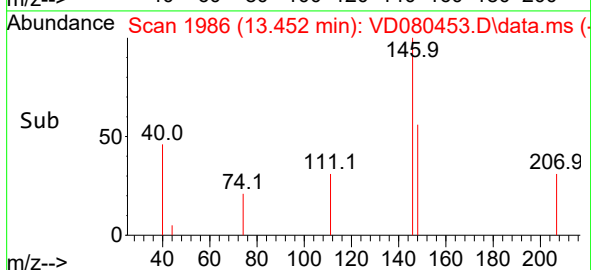
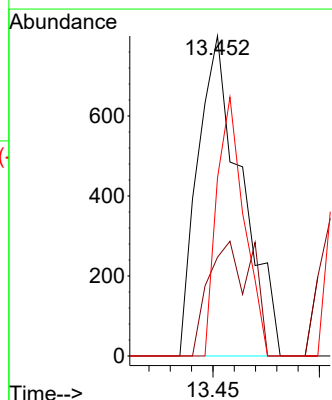
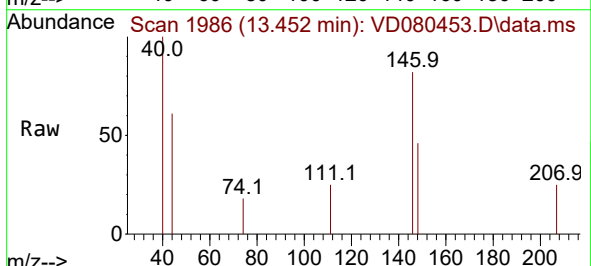
Tgt Ion:146 Resp: 1144

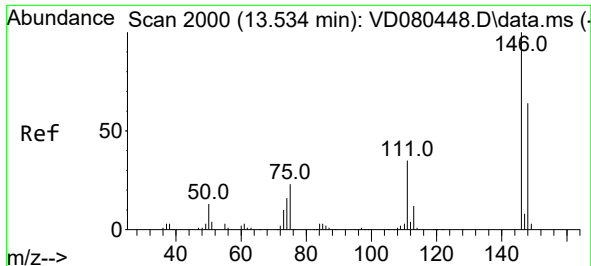
Ion Ratio Lower Upper

146 100

111 30.9 25.4 47.2

148 55.6 42.8 79.6

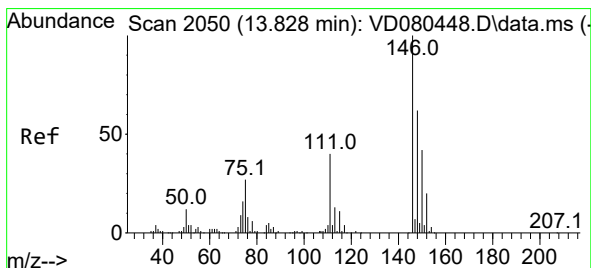
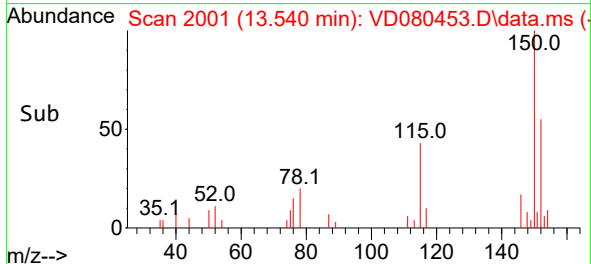
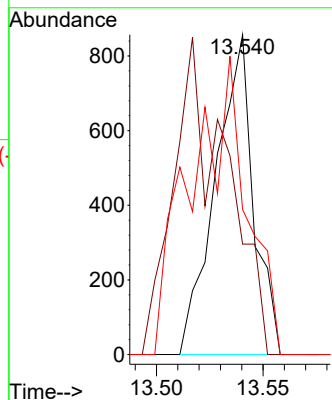
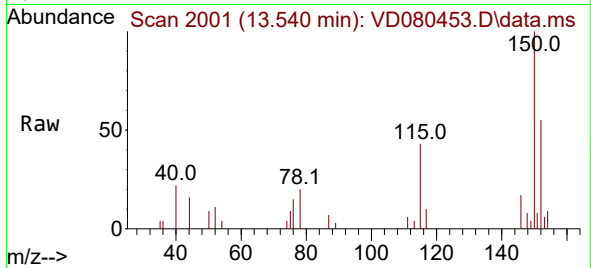




#65
1,4-Dichlorobenzene
Concen: 0.20 ug/L
RT: 13.540 min Scan# 2000
Delta R.T. 0.006 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

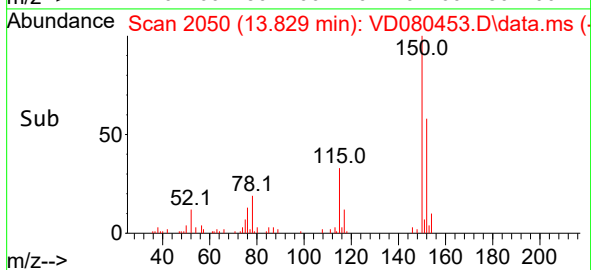
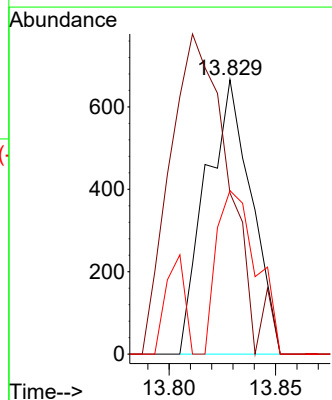
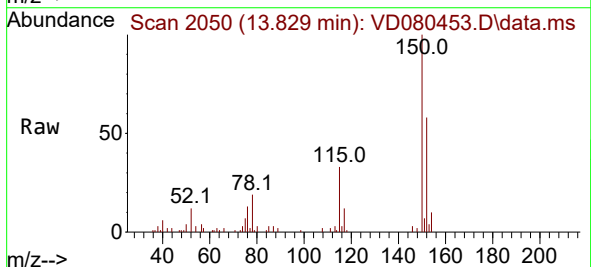
Instrument :
MSVOA_D
ClientSampleId :
VBLK209

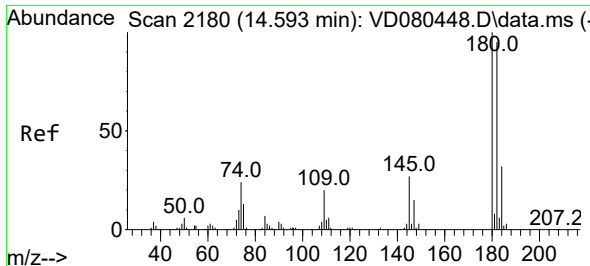
Tgt Ion:146 Resp: 1061
Ion Ratio Lower Upper
146 100
111 34.5 24.5 45.5
148 45.4 44.6 82.8



#67
1,2-Dichlorobenzene
Concen: 0.21 ug/L
RT: 13.829 min Scan# 2050
Delta R.T. 0.001 min
Lab File: VD080453.D
Acq: 18 Jun 2025 13:13

Tgt Ion:146 Resp: 985
Ion Ratio Lower Upper
146 100
111 58.7 32.0 48.0#
148 59.6 49.7 74.5

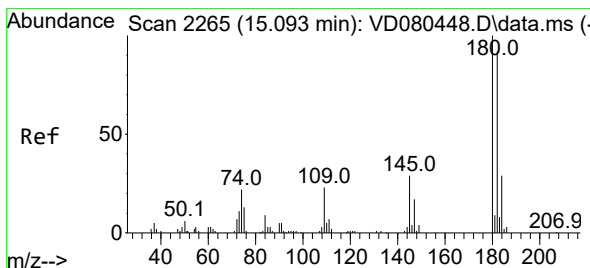
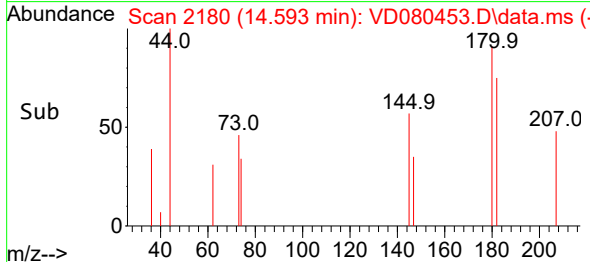
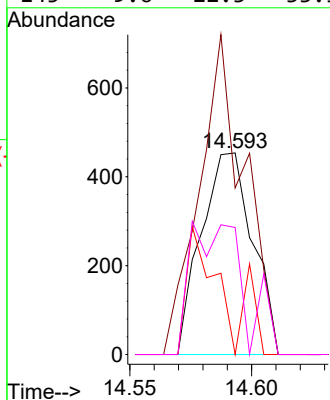
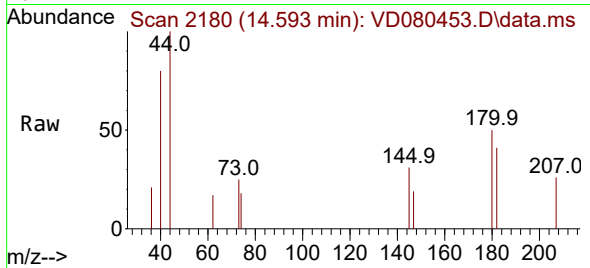




#69
 1,3,5-Trichlorobenzene
 Concen: 0.18 ug/L
 RT: 14.593 min Scan# 2180
 Delta R.T. 0.000 min
 Lab File: VD080453.D
 Acq: 18 Jun 2025 13:13

Instrument :
 MSVOA_D
 ClientSampleId :
 VBLK209

Tgt Ion:180 Resp: 667
 Ion Ratio Lower Upper
 180 100
 182 0.0 77.0 115.4#
 184 10.8 24.9 37.3#
 145 9.6 22.3 33.5#



#70
 1,2,4-trichlorobenzene
 Concen: 0.33 ug/L
 RT: 15.105 min Scan# 2267
 Delta R.T. 0.012 min
 Lab File: VD080453.D
 Acq: 18 Jun 2025 13:13

Tgt Ion:180 Resp: 985
 Ion Ratio Lower Upper
 180 100
 182 104.8 76.0 114.0
 145 31.4 22.2 33.4

