

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD061925\
 Data File : VD080458.D
 Acq On : 19 Jun 2025 11:24
 Operator : RP/MD
 Sample : VD0619SBL01
 Misc : 5.00G/10ml/MSVOA_D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VBLK210

Quant Time: Jun 20 09:45:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\SFAMDLM061825SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Jun 20 09:43:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	8.782	114	190505	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.582	117	188346	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.517	152	85173	25.00	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.276	65	64603	20.01	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	80.04%
7) Chloroethane-d5	2.806	69	59658	21.65	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	86.60%
11) 1,1-Dichloroethene-d2	3.917	65	24185	22.19	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.76%
21) 2-Butanone-d5	6.988	46	24639	46.01	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	92.02%
24) Chloroform-d	7.570	84	110319	21.03	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	84.12%
26) 1,2-Dichloroethane-d4	8.229	65	61561	22.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.80%
32) Benzene-d6	8.199	84	221795	21.41	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.64%
36) 1,2-Dichloropropane-d6	9.211	67	73527	21.64	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	86.56%
41) Toluene-d8	10.270	98	206106	21.29	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	85.16%
43) trans-1,3-Dichloroprop...	10.523	79	30970	21.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	87.48%
47) 2-Hexanone-d5	10.876	63	21210	41.10	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	82.20%
56) 1,1,2,2-Tetrachloroeth...	12.646	84	64325	20.93	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	83.72%
66) 1,2-Dichlorobenzene-d4	13.811	152	74840	24.23	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	96.92%
Target Compounds						
6) Bromomethane	2.700	94	553	0.26	ug/L #	56
8) Chloroethane	2.823	64	1212	0.51	ug/L #	41
16) Methylene chloride	4.800	84	6029	2.04	ug/L	82
25) Chloroform	7.600	83	11794	2.18	ug/L	95
31) Carbon tetrachloride	8.000	117	304	0.07	ug/L #	2
42) Toluene	10.329	91	2049	0.18	ug/L	100
44) trans-1,3-Dichloropropene	10.529	75	1657	0.45	ug/L #	27
51) Chlorobenzene	11.605	112	1235	0.16	ug/L	92
52) Ethylbenzene	11.676	91	1651	0.13	ug/L #	76
54) o-Xylene	12.111	106	584	0.13	ug/L	97
55) Styrene	12.135	104	1184	0.15	ug/L	90
60) Isopropylbenzene	12.411	105	1336	0.13	ug/L #	81
62) 1,3,5-Trimethylbenzene	12.899	105	1321	0.17	ug/L	94
63) 1,2,4-Trimethylbenzene	13.211	105	1393	0.18	ug/L	92
64) 1,3-Dichlorobenzene	13.458	146	1352	0.26	ug/L #	65
65) 1,4-Dichlorobenzene	13.540	146	1458	0.27	ug/L #	83
67) 1,2-Dichlorobenzene	13.823	146	1127	0.24	ug/L #	69
69) 1,3,5-Trichlorobenzene	14.599	180	523	0.14	ug/L #	35
70) 1,2,4-trichlorobenzene	15.087	180	1361	0.46	ug/L #	63

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Quant Title : SFAM01.0
QLast Update : Fri Jun 20 09:43:48 2025
Response via : Initial Calibration

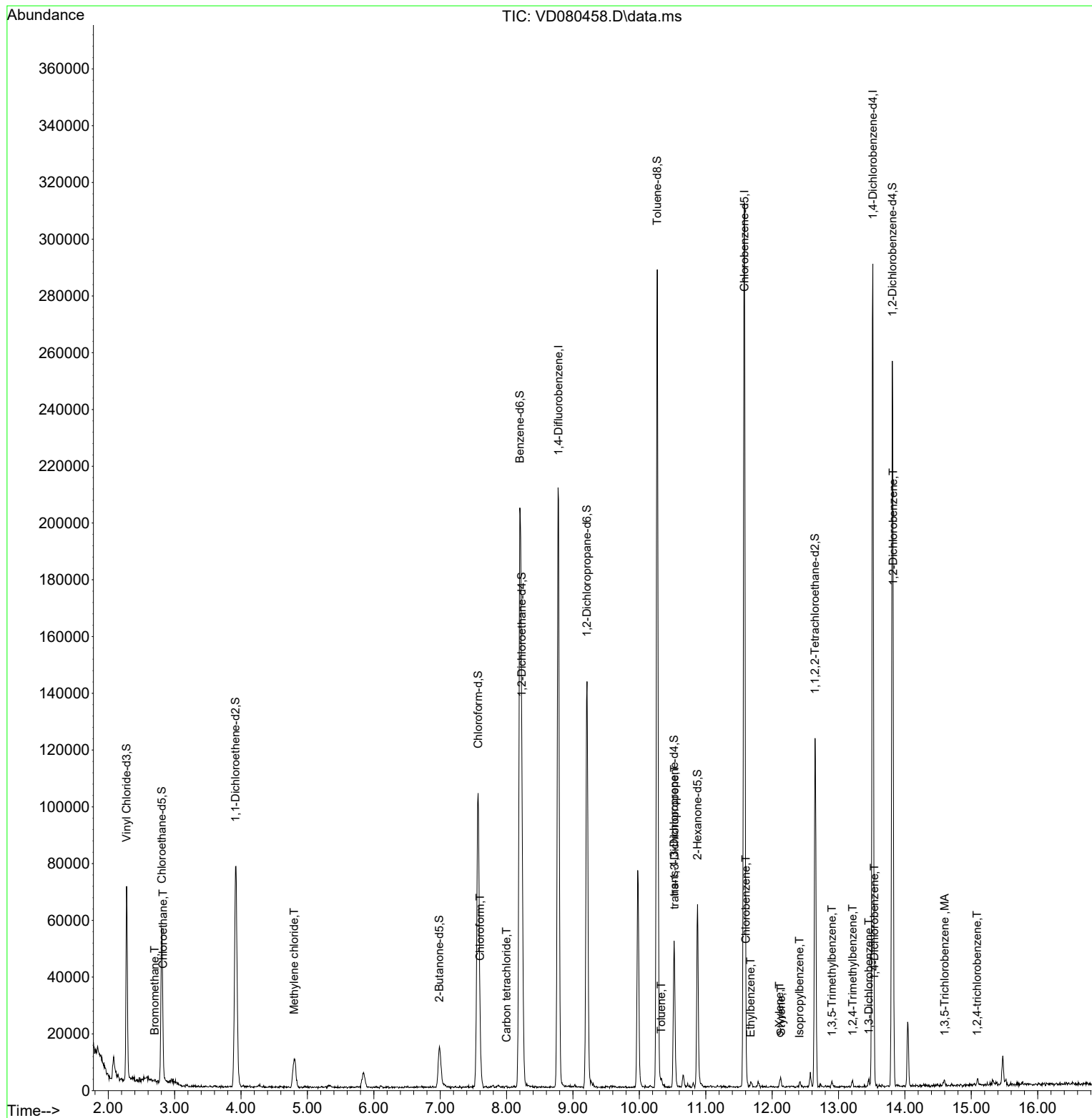
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

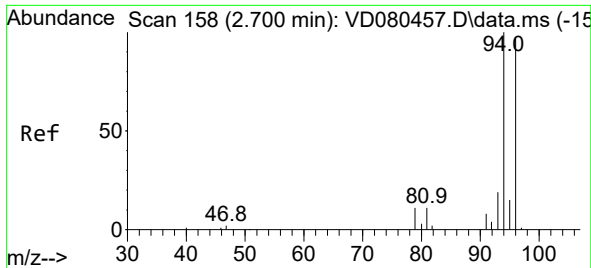
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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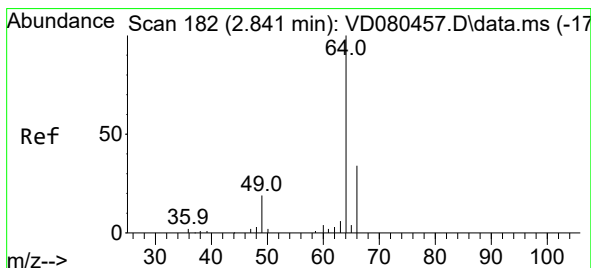
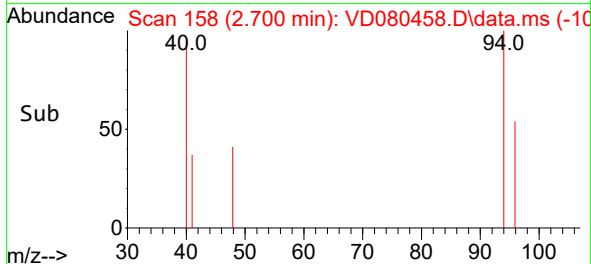
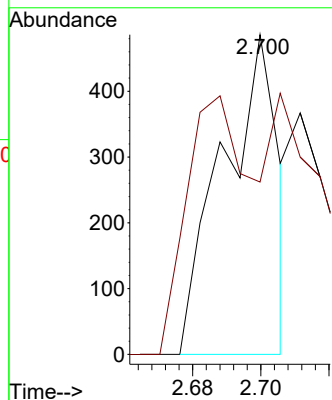
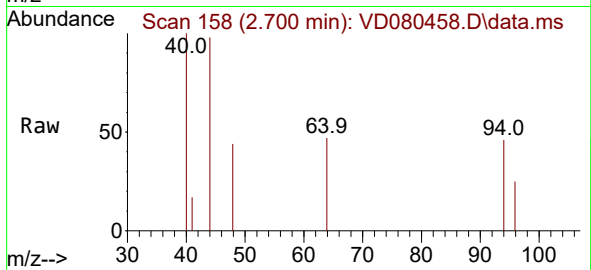




#6
Bromomethane
Concen: 0.26 ug/L
RT: 2.700 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

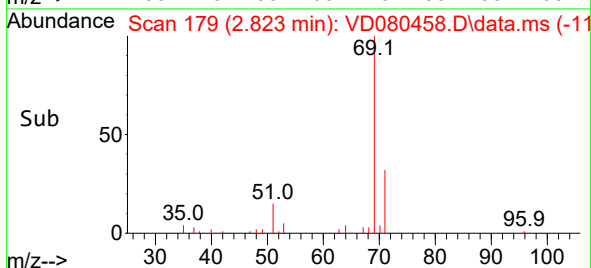
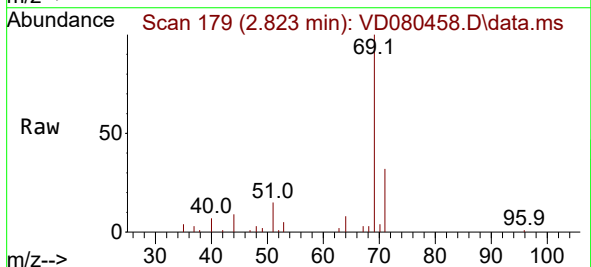
Instrument :
MSVOA_D
ClientSampleId :
VBLK210

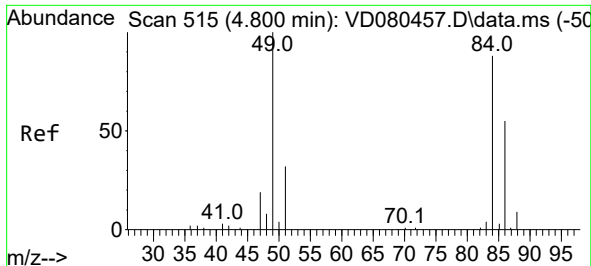
Tgt Ion: 94 Resp: 553
Ion Ratio Lower Upper
94 100
96 53.9 67.6 125.6#



#8
Chloroethane
Concen: 0.51 ug/L
RT: 2.823 min Scan# 179
Delta R.T. -0.018 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

Tgt Ion: 64 Resp: 1212
Ion Ratio Lower Upper
64 100
66 0.0 23.9 44.3#

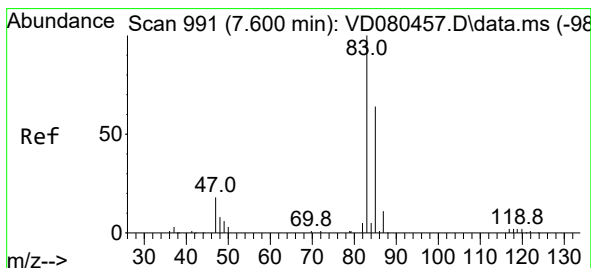
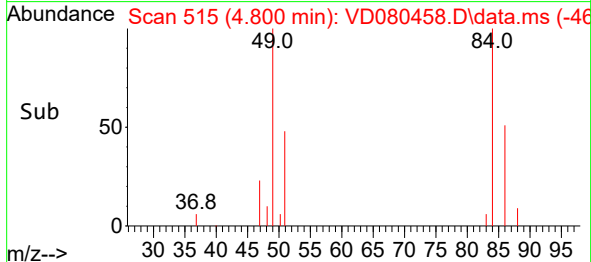
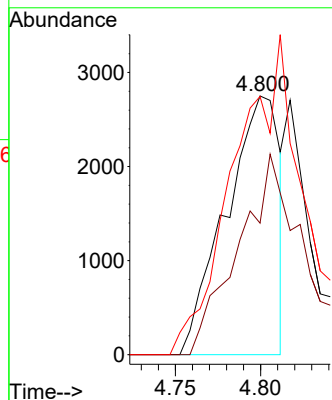
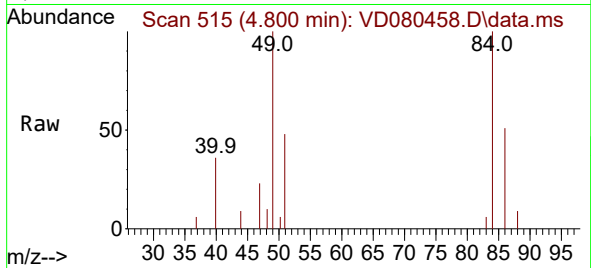




#16
Methylene chloride
Concen: 2.04 ug/L
RT: 4.800 min Scan# 515
Delta R.T. 0.000 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

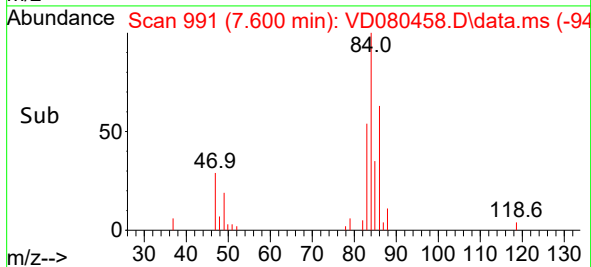
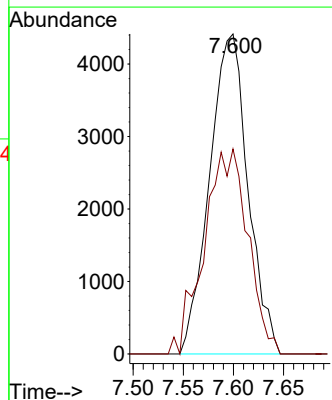
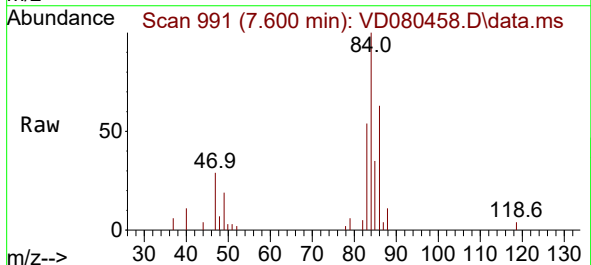
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ClientSampleId :
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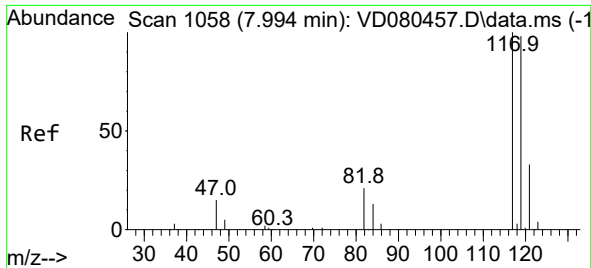
Tgt Ion: 84 Resp: 6029
Ion Ratio Lower Upper
84 100
86 50.8 46.7 86.7
49 99.8 83.0 154.1



#25
Chloroform
Concen: 2.18 ug/L
RT: 7.600 min Scan# 991
Delta R.T. 0.000 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

Tgt Ion: 83 Resp: 11794
Ion Ratio Lower Upper
83 100
85 64.0 42.0 78.0

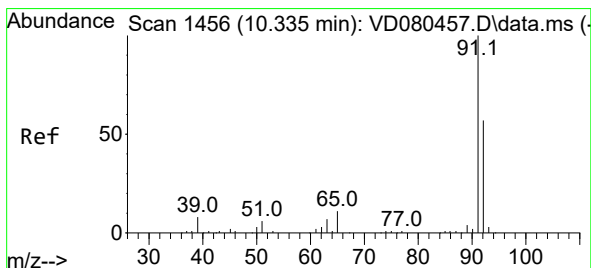
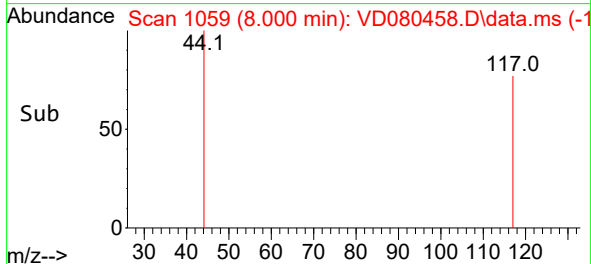
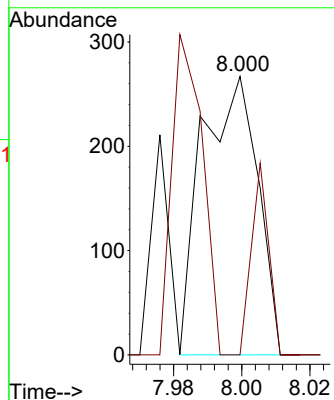
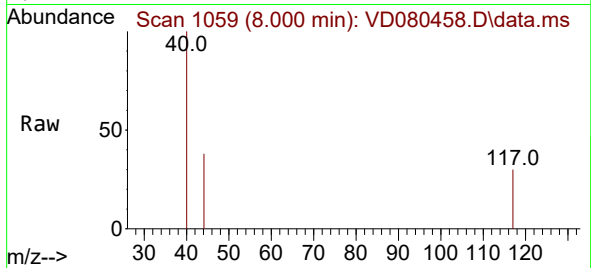




#31
Carbon tetrachloride
Concen: 0.07 ug/L
RT: 8.000 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

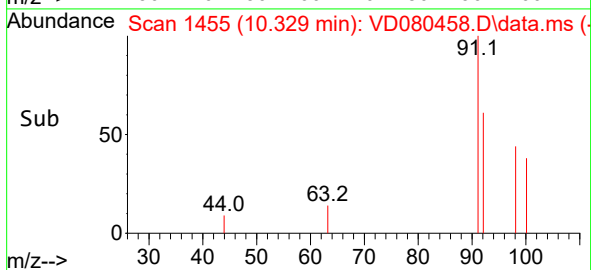
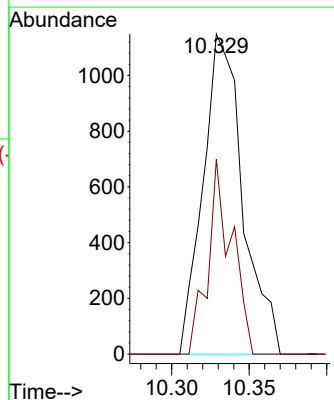
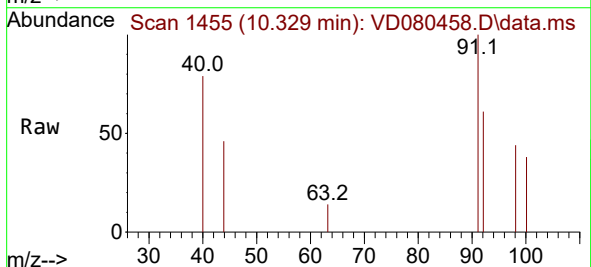
Instrument :
MSVOA_D
ClientSampleId :
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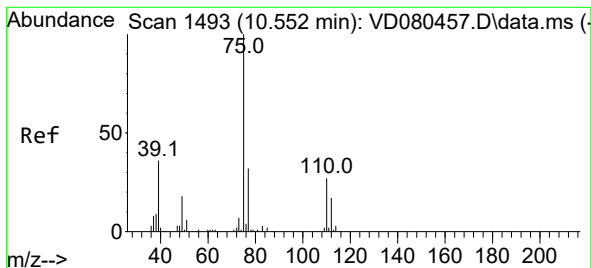
Tgt Ion:117 Resp: 304
Ion Ratio Lower Upper
117 100
119 0.0 77.2 115.8#



#42
Toluene
Concen: 0.18 ug/L
RT: 10.329 min Scan# 1455
Delta R.T. -0.006 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

Tgt Ion: 91 Resp: 2049
Ion Ratio Lower Upper
91 100
92 60.9 42.6 79.0

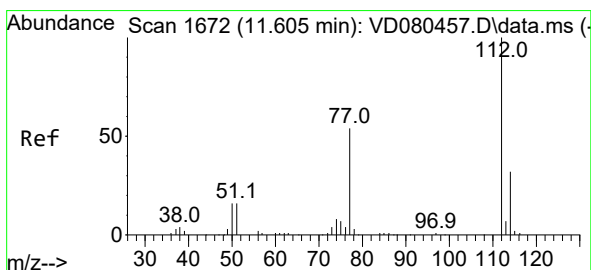
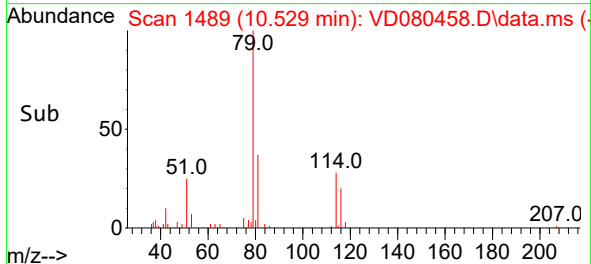
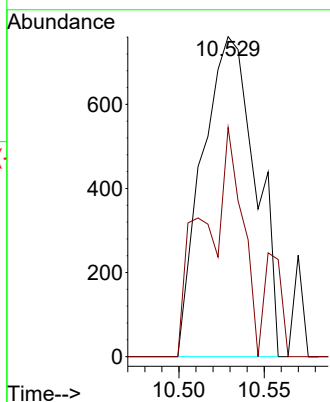
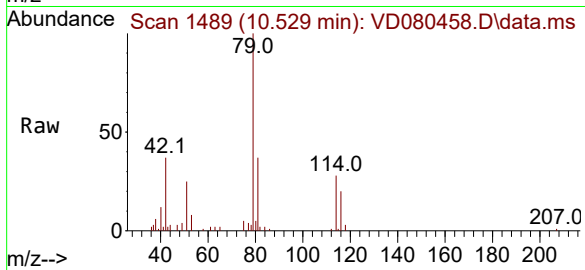




#44
trans-1,3-Dichloropropene
Concen: 0.45 ug/L
RT: 10.529 min Scan# 1493
Delta R.T. -0.024 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

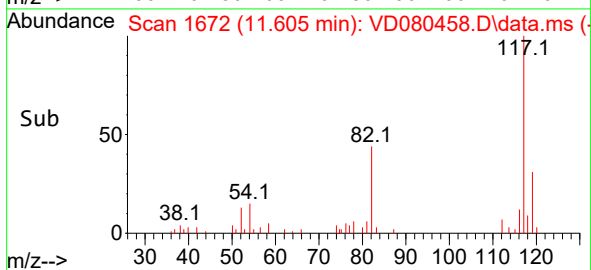
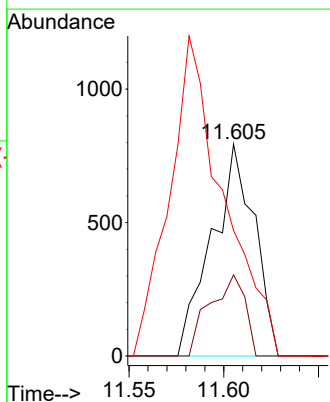
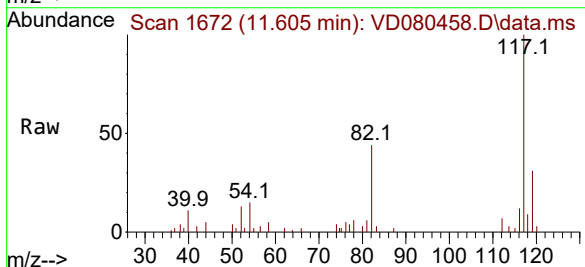
Instrument :
MSVOA_D
ClientSampleId :
VBLK210

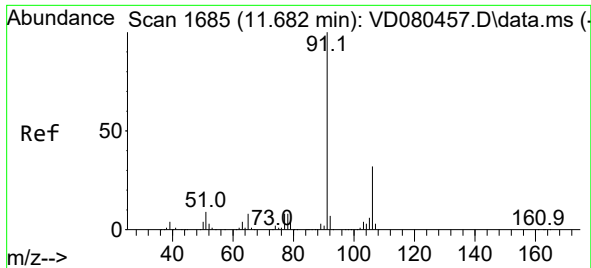
Tgt Ion: 75 Resp: 1657
Ion Ratio Lower Upper
75 100
77 71.6 21.8 40.6#



#51
Chlorobenzene
Concen: 0.16 ug/L
RT: 11.605 min Scan# 1672
Delta R.T. -0.000 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

Tgt Ion: 112 Resp: 1235
Ion Ratio Lower Upper
112 100
114 38.3 22.3 41.3
77 59.2 44.2 66.4

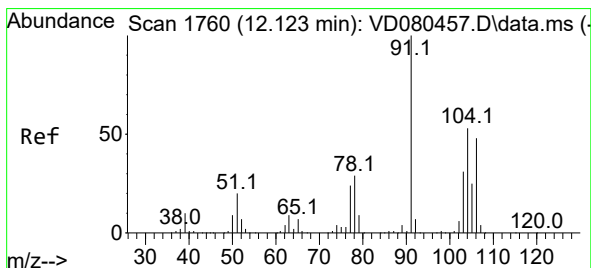
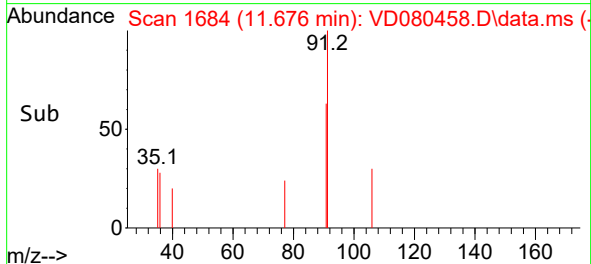
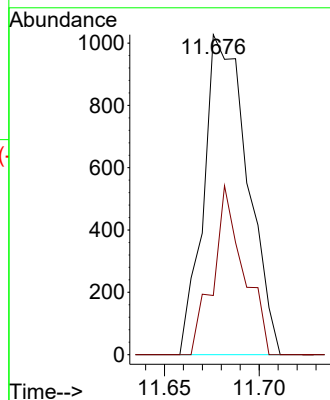
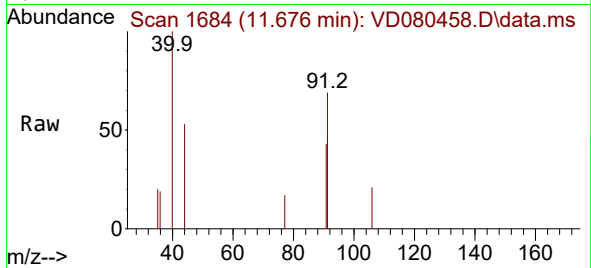




#52
Ethylbenzene
Concen: 0.13 ug/L
RT: 11.676 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

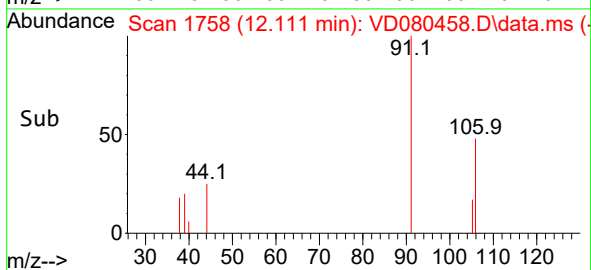
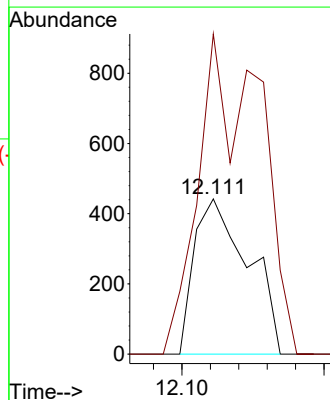
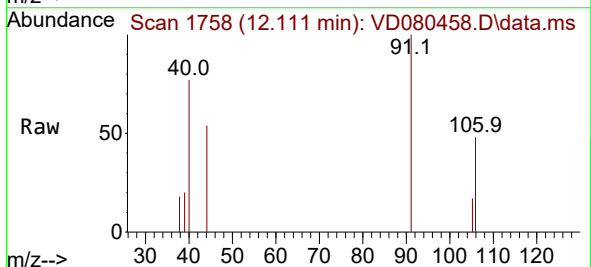
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MSVOA_D
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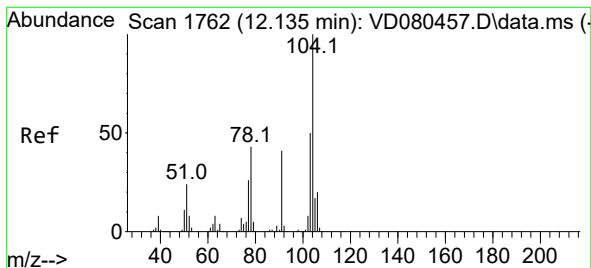
Tgt Ion: 91 Resp: 1651
Ion Ratio Lower Upper
91 100
106 18.5 22.1 41.1#



#54
o-Xylene
Concen: 0.13 ug/L
RT: 12.111 min Scan# 1758
Delta R.T. -0.012 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

Tgt Ion: 106 Resp: 584
Ion Ratio Lower Upper
106 100
91 206.3 148.3 275.3





#55

Styrene

Concen: 0.15 ug/L

RT: 12.135 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD080458.D

Acq: 19 Jun 2025 11:24

Instrument :

MSVOA_D

ClientSampleId :

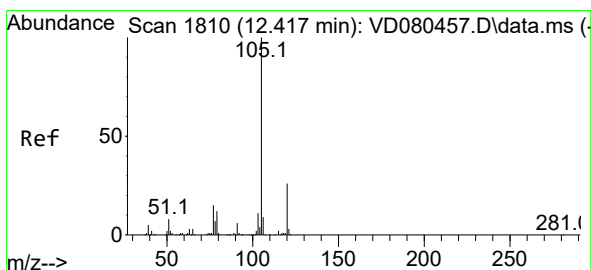
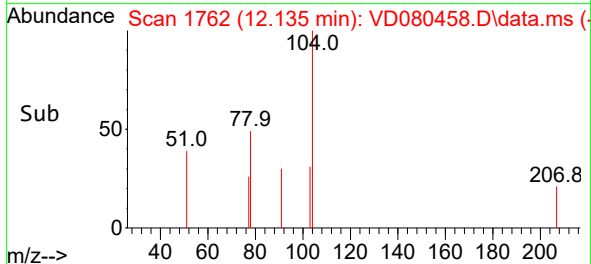
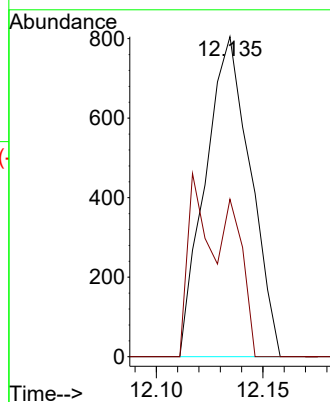
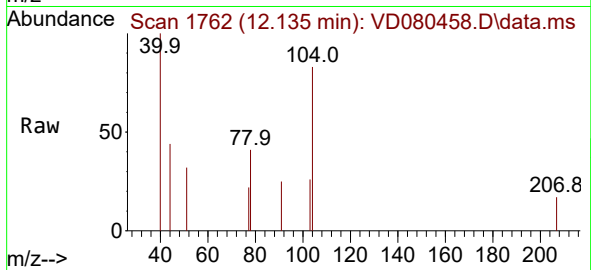
VBLK210

Tgt Ion:104 Resp: 1184

Ion Ratio Lower Upper

104 100

78 49.2 30.0 55.8



#60

Isopropylbenzene

Concen: 0.13 ug/L

RT: 12.411 min Scan# 1809

Delta R.T. -0.006 min

Lab File: VD080458.D

Acq: 19 Jun 2025 11:24

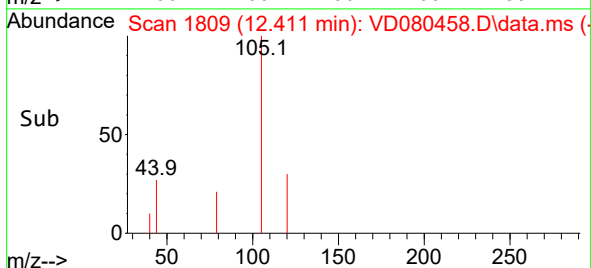
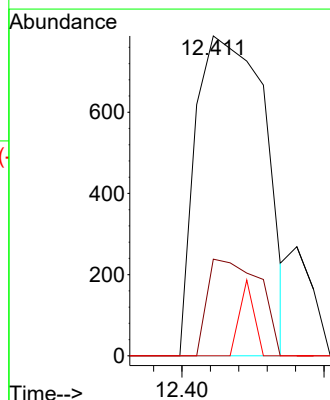
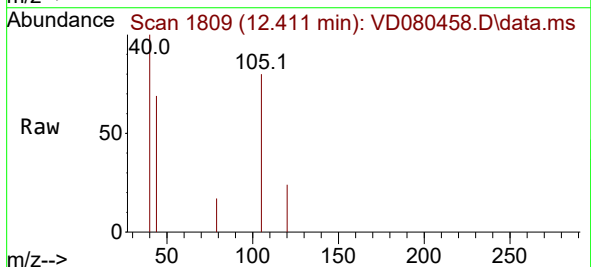
Tgt Ion:105 Resp: 1336

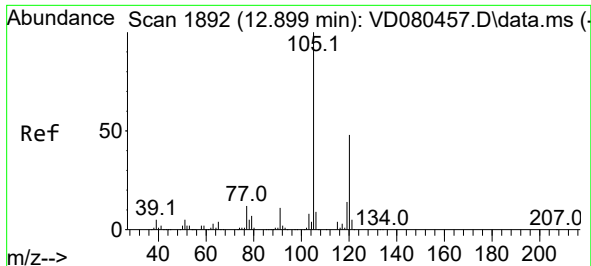
Ion Ratio Lower Upper

105 100

120 22.7 22.1 33.1

77 0.0 12.1 18.1#

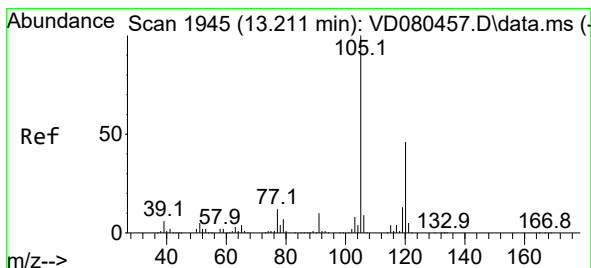
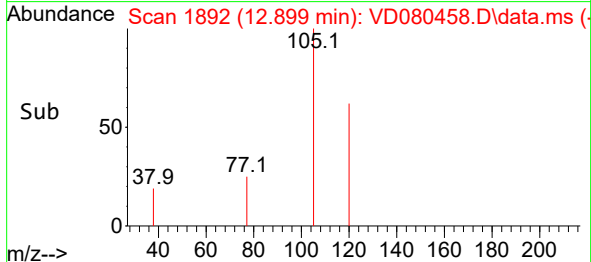
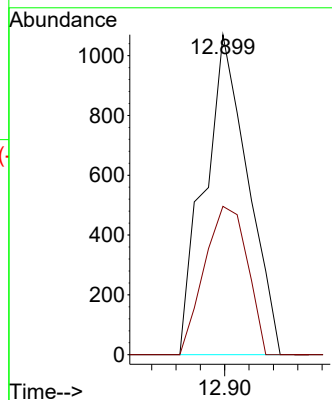
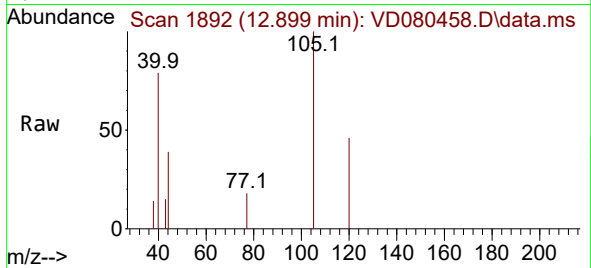




#62
1,3,5-Trimethylbenzene
Concen: 0.17 ug/L
RT: 12.899 min Scan# 1892
Delta R.T. -0.000 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

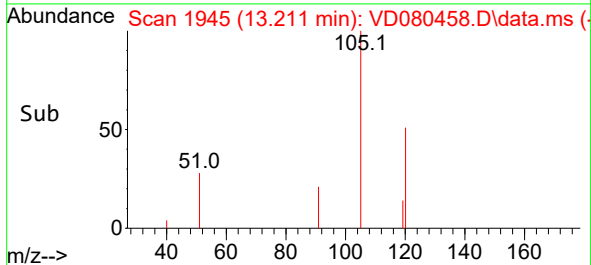
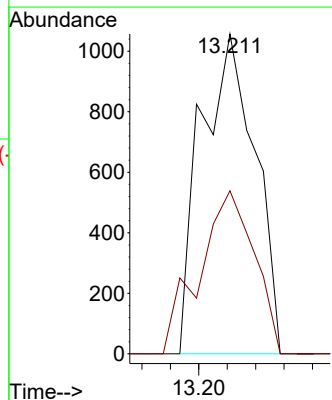
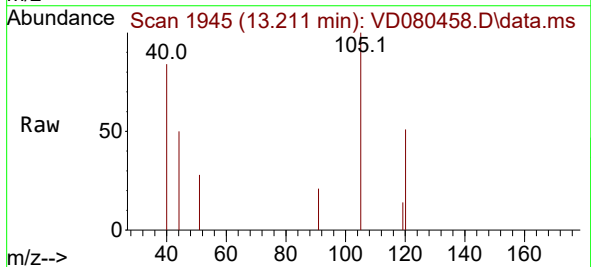
Instrument :
MSVOA_D
ClientSampleId :
VBLK210

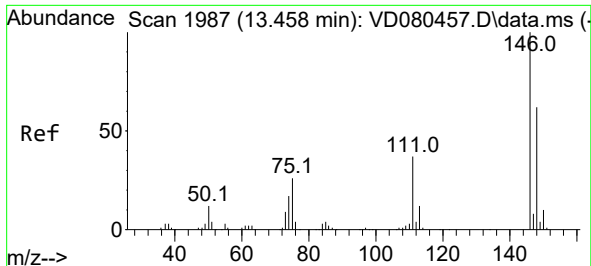
Tgt Ion:105 Resp: 1321
Ion Ratio Lower Upper
105 100
120 46.0 40.1 60.1



#63
1,2,4-Trimethylbenzene
Concen: 0.18 ug/L
RT: 13.211 min Scan# 1945
Delta R.T. 0.000 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

Tgt Ion:105 Resp: 1393
Ion Ratio Lower Upper
105 100
120 52.1 37.5 56.3

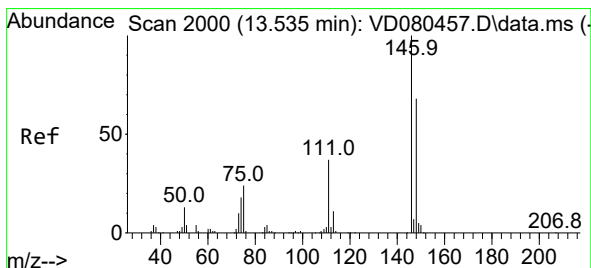
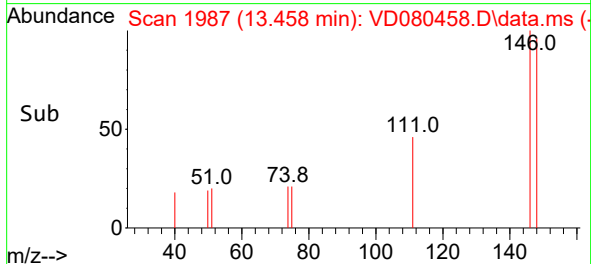
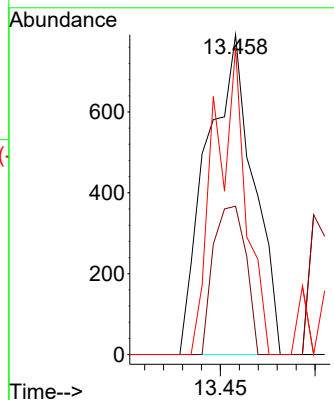
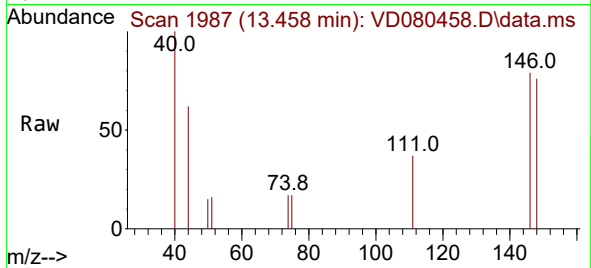




#64
1,3-Dichlorobenzene
Concen: 0.26 ug/L
RT: 13.458 min Scan# 1987
Delta R.T. 0.000 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

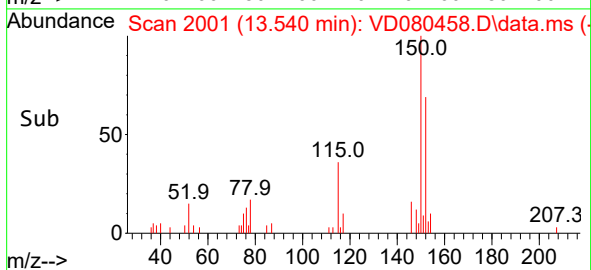
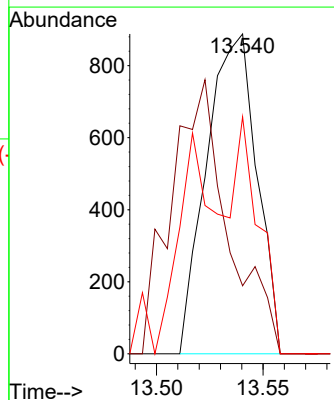
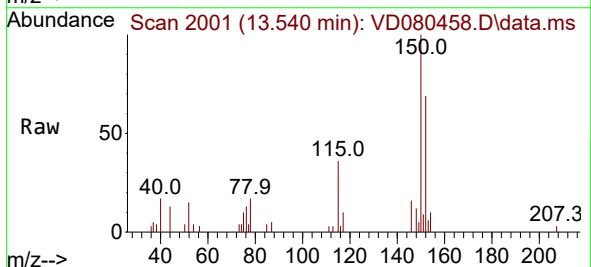
Instrument :
MSVOA_D
ClientSampleId :
VBLK210

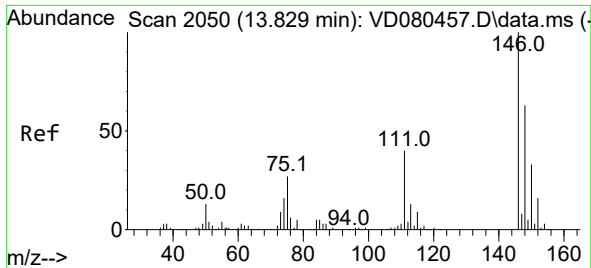
Tgt Ion:146 Resp: 1352
Ion Ratio Lower Upper
146 100
111 46.4 25.4 47.2
148 96.0 42.8 79.6#



#65
1,4-Dichlorobenzene
Concen: 0.27 ug/L
RT: 13.540 min Scan# 2001
Delta R.T. 0.006 min
Lab File: VD080458.D
Acq: 19 Jun 2025 11:24

Tgt Ion:146 Resp: 1458
Ion Ratio Lower Upper
146 100
111 21.3 24.5 45.5#
148 74.1 44.6 82.8





#67

1,2-Dichlorobenzene

Concen: 0.24 ug/L

RT: 13.823 min Scan# 2049

Delta R.T. -0.006 min

Lab File: VD080458.D

Acq: 19 Jun 2025 11:24

Instrument :

MSVOA_D

ClientSampleId :

VBLK210

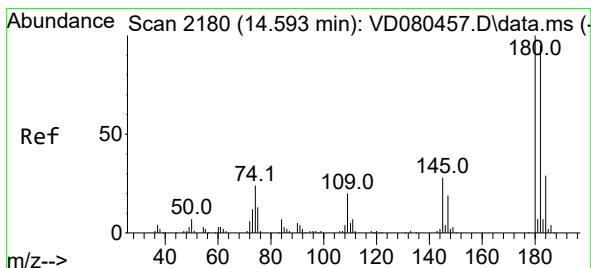
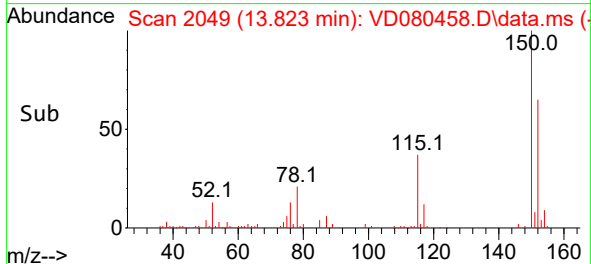
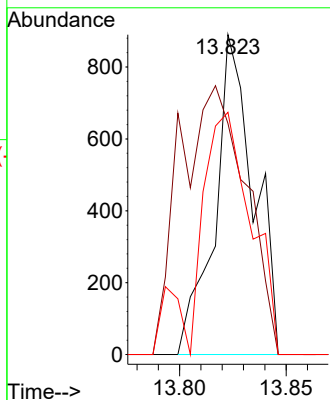
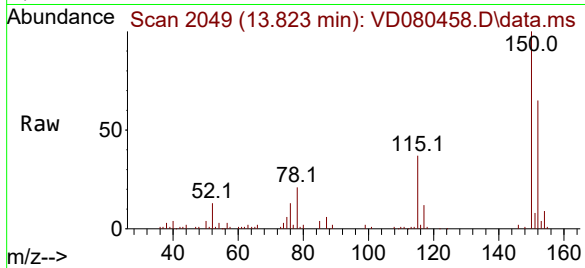
Tgt Ion:146 Resp: 1127

Ion Ratio Lower Upper

146 100

111 72.2 32.0 48.0#

148 75.7 49.7 74.5#



#69

1,3,5-Trichlorobenzene

Concen: 0.14 ug/L

RT: 14.599 min Scan# 2181

Delta R.T. 0.006 min

Lab File: VD080458.D

Acq: 19 Jun 2025 11:24

Tgt Ion:180 Resp: 523

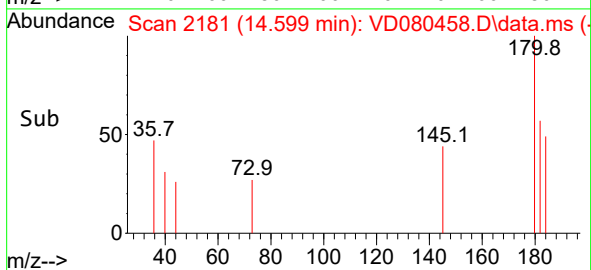
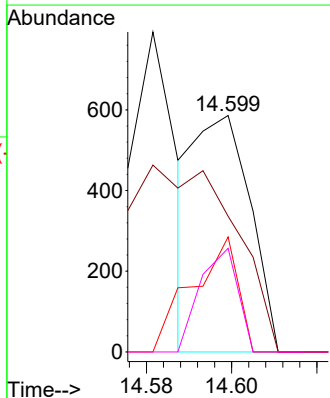
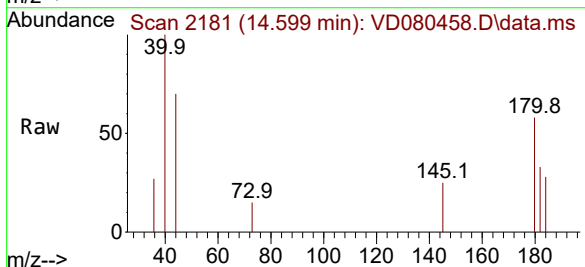
Ion Ratio Lower Upper

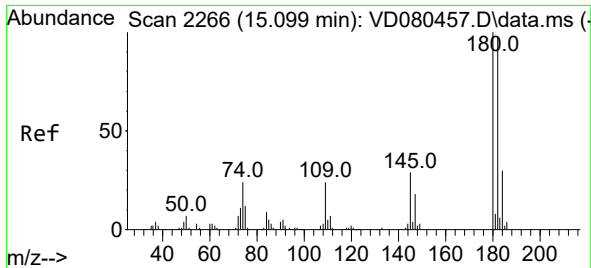
180 100

182 0.0 77.0 115.4#

184 40.9 24.9 37.3#

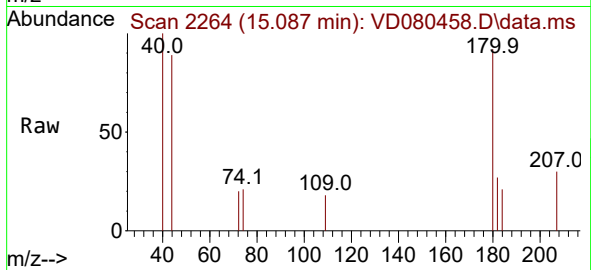
145 30.2 22.3 33.5





#70
 1,2,4-trichlorobenzene
 Concen: 0.46 ug/L
 RT: 15.087 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: VD080458.D
 Acq: 19 Jun 2025 11:24

Instrument :
 MSVOA_D
 ClientSampleId :
 VBLK210



Tgt Ion:180 Resp: 1361
 Ion Ratio Lower Upper
 180 100
 182 56.4 76.0 114.0#
 145 12.5 22.2 33.4#

