

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023262.D
 Acq On : 02 Sep 2025 14:00
 Operator : SY/MD
 Sample : Q2997-01
 Misc : 5.25g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-01-082925

Quant Time: Sep 03 03:30:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	552348	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1034496	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1014555	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	473920	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	293227	55.702	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 111.400%	
35) Dibromofluoromethane	7.634	113	335550	54.208	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.420%	
50) Toluene-d8	10.109	98	1257159	51.987	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.980%	
62) 4-Bromofluorobenzene	12.401	95	432383	55.598	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 111.200%	

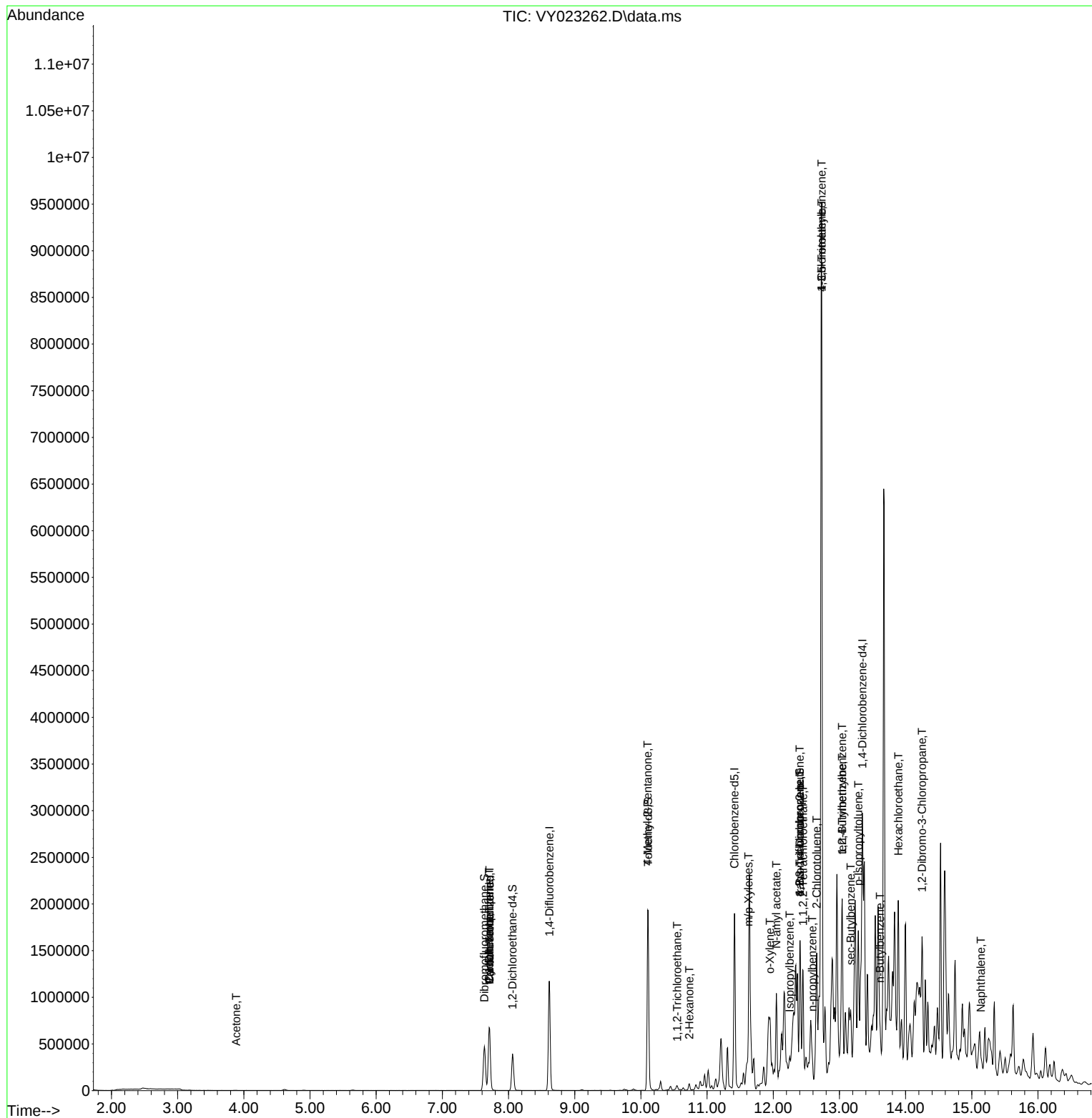
Target Compounds				Qvalue		
16) Acetone	3.885	43	2727	2.391	ug/l #	76
20) Methylene Chloride	4.610	84	8367	Below Cal	#	80
31) Cyclohexane	7.707	56	10532	1.074	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	39895	4.337	ug/l #	49
38) Carbon Tetrachloride	7.713	117	51517	5.156	ug/l #	17
51) 4-Methyl-2-Pentanone	10.103	43	6705	1.664	ug/l #	1
55) 1,1,2-Trichloroethane	10.548	97	18967	3.785	ug/l #	20
59) 2-Hexanone	10.731	43	21597	7.872	ug/l #	27
68) m/p-Xylenes	11.627	106	51455	3.498	ug/l	99
69) o-Xylene	11.950	106	122065	8.861	ug/l	100
73) Isopropylbenzene	12.249	105	49550	1.481	ug/l	98
74) N-amyl acetate	12.048	43	177766	25.061	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.450	83	21795	3.816	ug/l #	40
76) 1,2,3-Trichloropropane	12.401	75	214512	46.900	ug/l #	100
78) n-propylbenzene	12.590	91	132718	3.333	ug/l	99
79) 2-Chlorotoluene	12.657	91	84836	3.718	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.731	105	832075	30.780	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.401	75	214512	113.530	ug/l #	15
82) 4-Chlorotoluene	12.731	91	89903	3.798	ug/l #	51
83) tert-Butylbenzene	13.041	119	105558	4.323	ug/l #	71
84) 1,2,4-Trimethylbenzene	13.041	105	840998	31.252	ug/l	97
85) sec-Butylbenzene	13.170	105	201130	5.608	ug/l	85
86) p-Isopropyltoluene	13.285	119	177819	5.973	ug/l	99
89) n-Butylbenzene	13.615	91	138408	5.062	ug/l #	73
90) Hexachloroethane	13.889	117	63573	10.431	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.249	75	3976	4.471	ug/l #	36
95) Naphthalene	15.139	128	32482	2.334	ug/l #	78

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

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QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

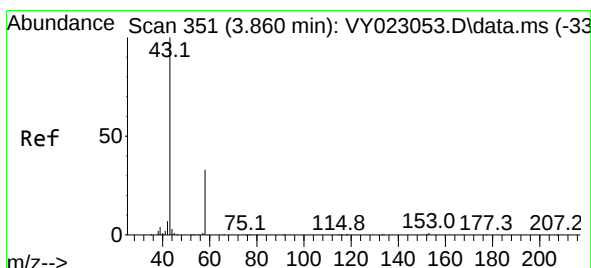
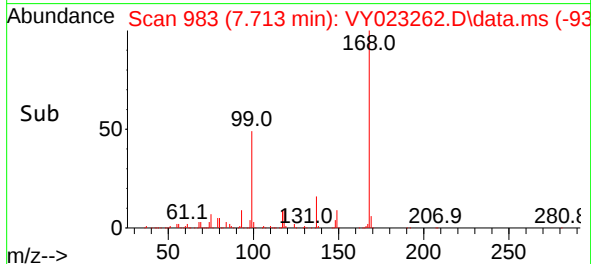
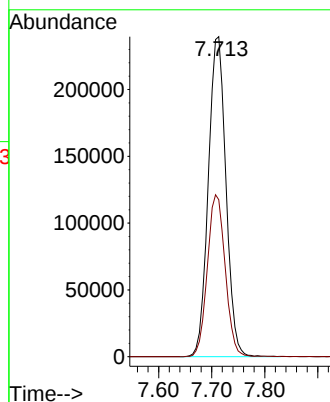
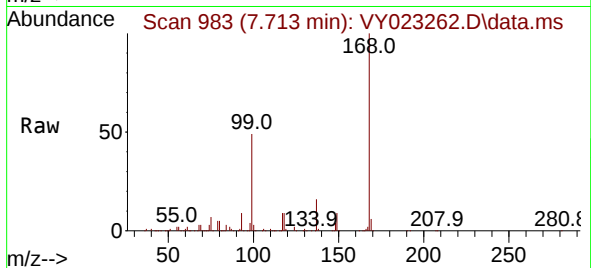




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

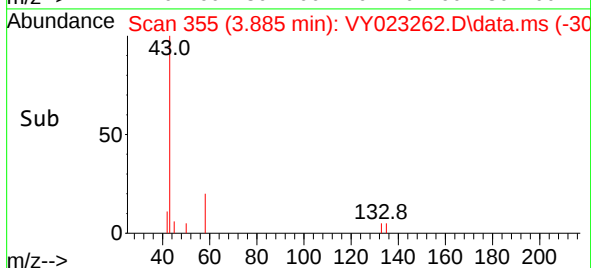
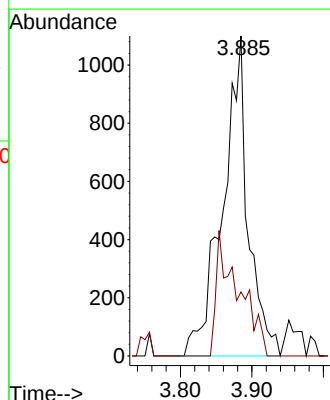
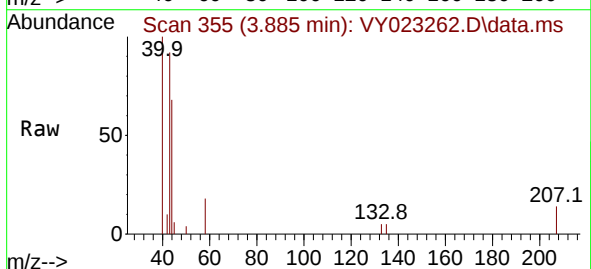
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

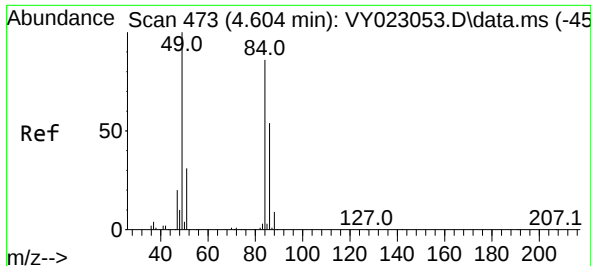
Tgt Ion:168 Resp: 552348
Ion Ratio Lower Upper
168 100
99 49.1 42.8 64.2



#16
Acetone
Concen: 2.391 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.024 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion: 43 Resp: 2727
Ion Ratio Lower Upper
43 100
58 20.0 27.1 40.7#

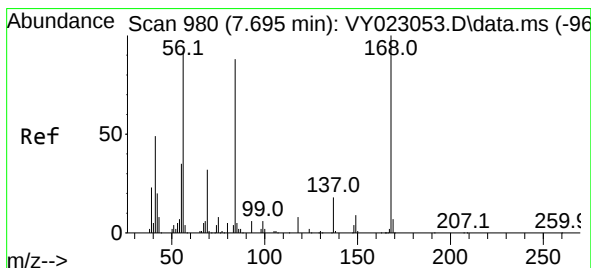
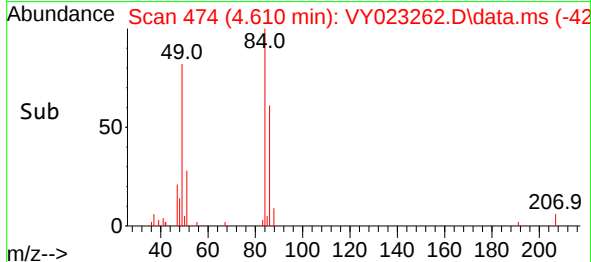
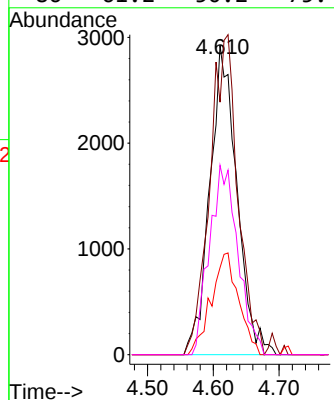
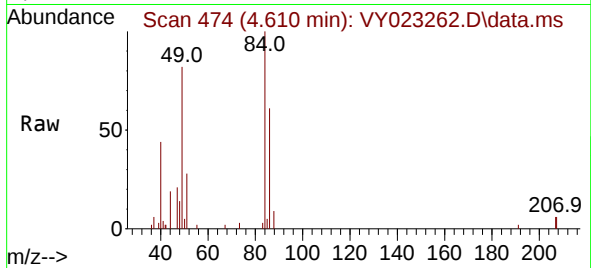




#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

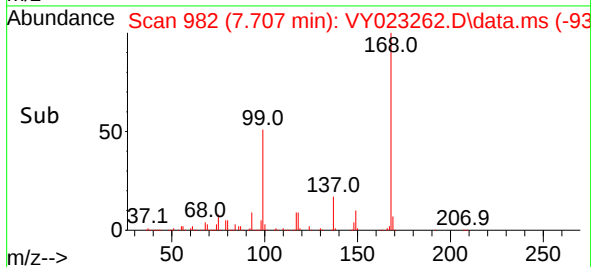
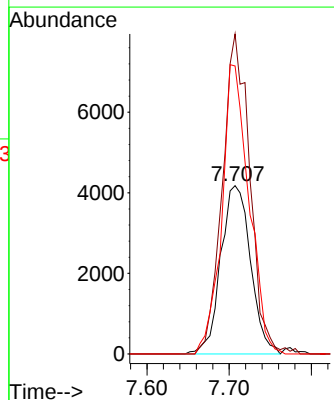
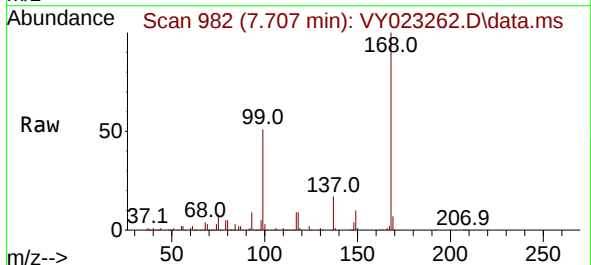
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

Tgt Ion:	84	Resp:	8367
Ion	Ratio	Lower	Upper
84	100		
49	81.6	93.0	139.6#
51	28.1	29.0	43.4#
86	61.2	50.2	75.4



#31
Cyclohexane
Concen: 1.074 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.012 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion:	56	Resp:	10532
Ion	Ratio	Lower	Upper
56	100		
69	190.1	28.2	42.2#
84	171.1	76.6	114.8#





#33

1,2-Dichloroethane-d4

Concen: 55.702 ug/l

RT: 8.061 min Scan# 1109

Delta R.T. 0.006 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

Instrument :

MSVOA_Y

ClientSampleId :

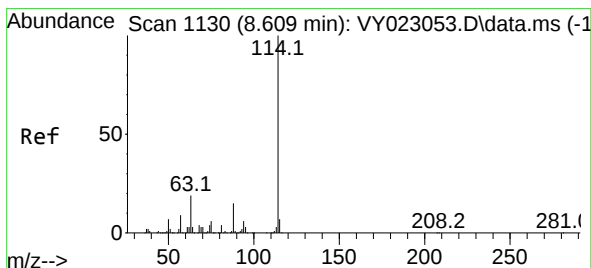
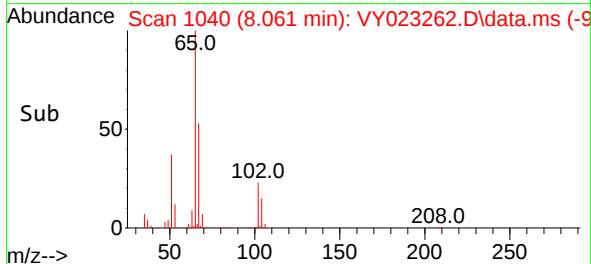
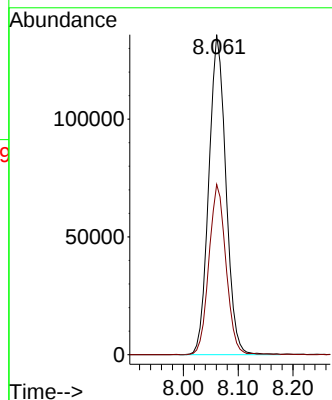
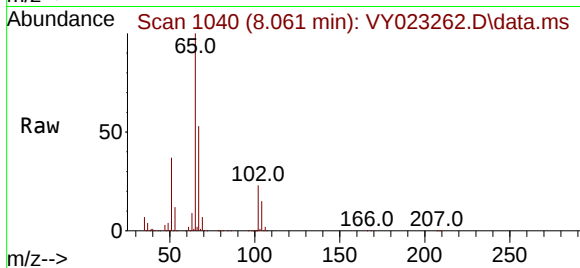
EO-01-082925

Tgt Ion: 65 Resp: 293227

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

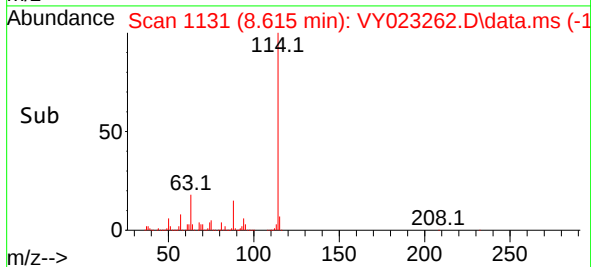
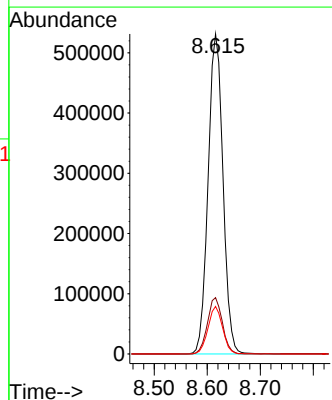
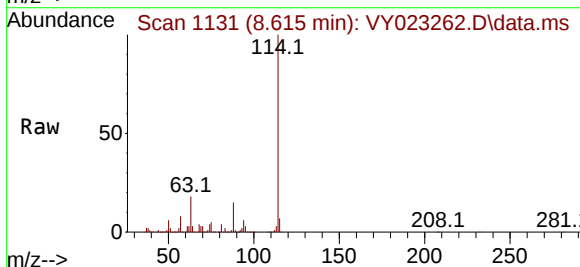
Tgt Ion: 114 Resp: 1034496

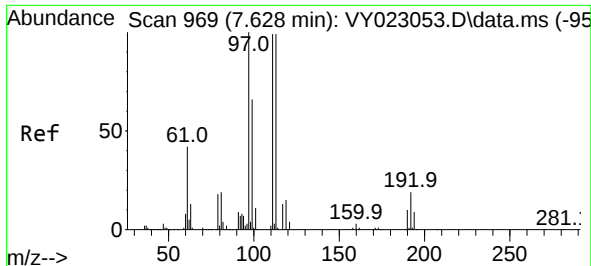
Ion Ratio Lower Upper

114 100

63 17.6 0.0 38.4

88 14.9 0.0 30.0

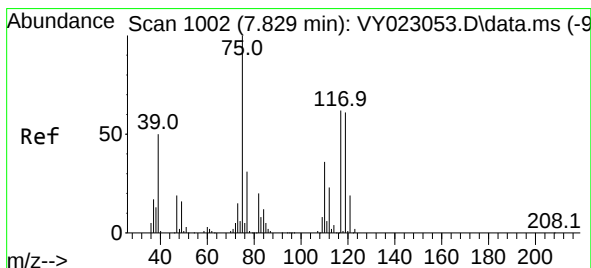
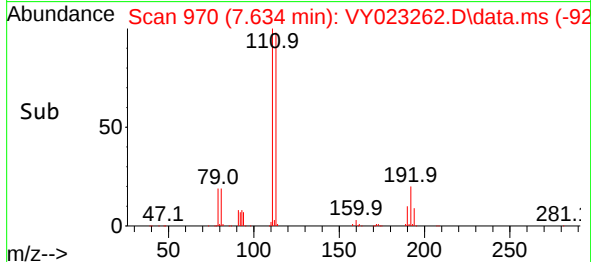
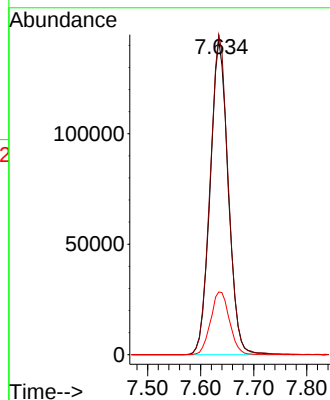
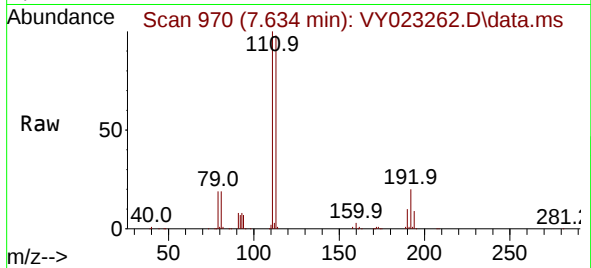




#35
Dibromofluoromethane
Concen: 54.208 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

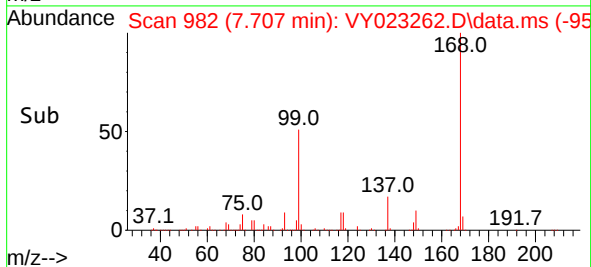
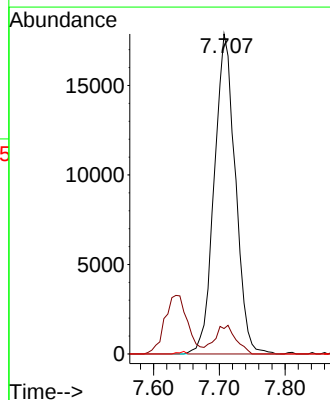
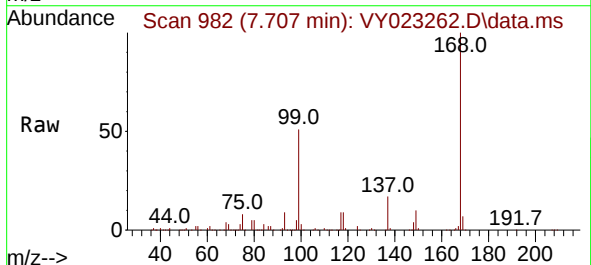
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

Tgt Ion:113 Resp: 335550
Ion Ratio Lower Upper
113 100
111 102.5 81.1 121.7
192 21.0 16.2 24.4



#36
1,1-Dichloropropene
Concen: 4.337 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.122 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion: 75 Resp: 39895
Ion Ratio Lower Upper
75 100
110 8.9 18.1 54.4#
77 0.0 24.6 37.0#

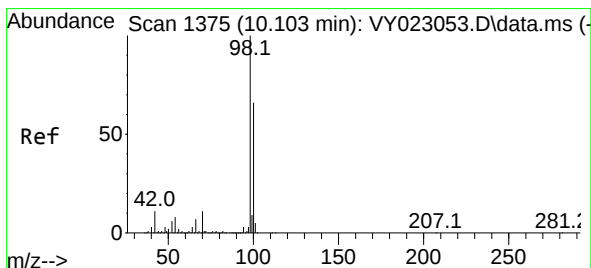
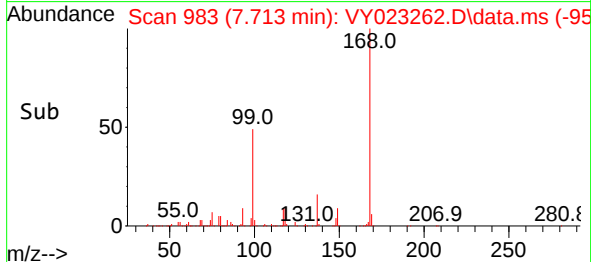
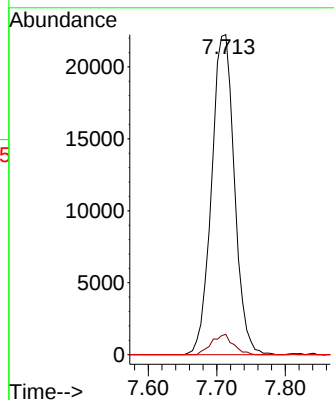
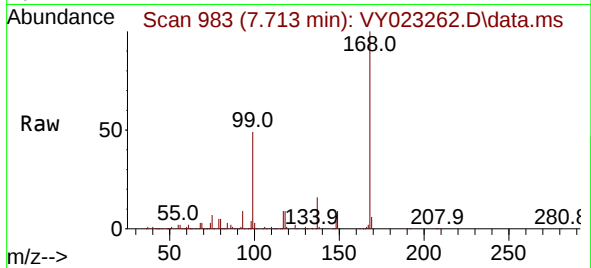




#38
Carbon Tetrachloride
Concen: 5.156 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

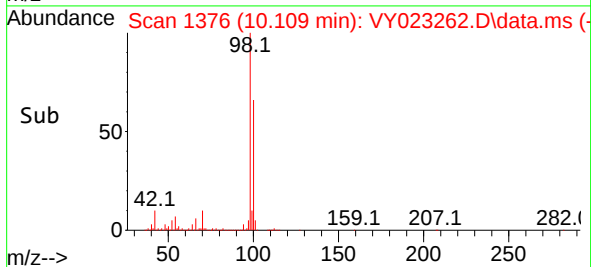
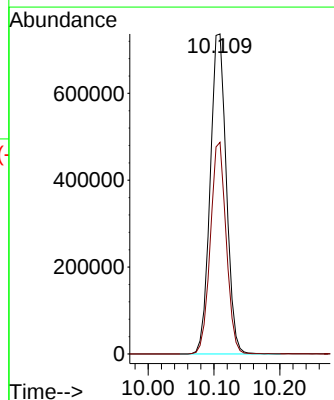
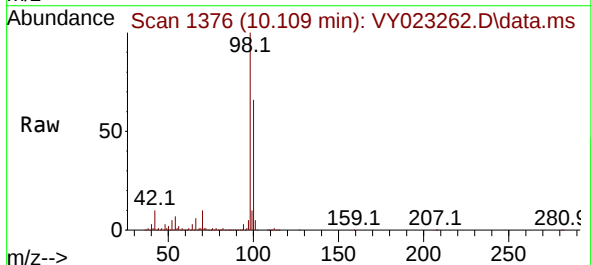
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

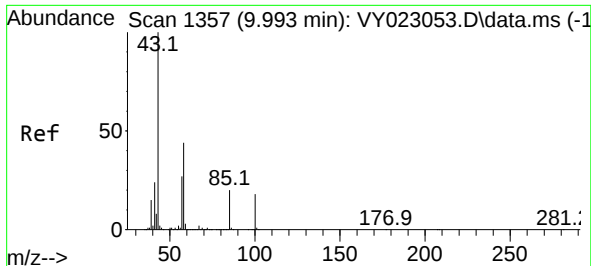
Tgt Ion:117 Resp: 51517
Ion Ratio Lower Upper
117 100
119 6.3 75.6 113.4#
121 0.0 25.8 38.8#



#50
Toluene-d8
Concen: 51.987 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion: 98 Resp: 1257159
Ion Ratio Lower Upper
98 100
100 65.0 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 1.664 ug/l

RT: 10.103 min Scan# 11

Delta R.T. 0.110 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

Instrument :

MSVOA_Y

ClientSampleId :

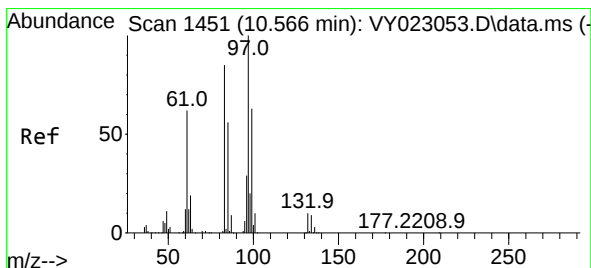
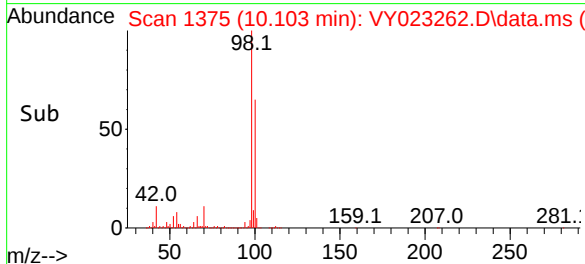
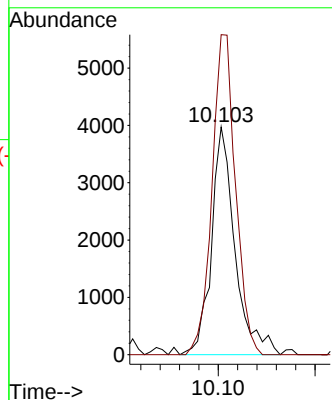
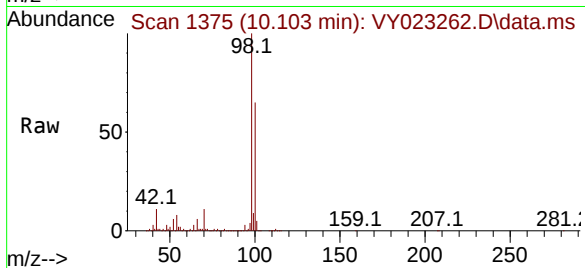
EO-01-082925

Tgt Ion: 43 Resp: 6705

Ion Ratio Lower Upper

43 100

58 140.7 33.5 50.3#



#55

1,1,2-Trichloroethane

Concen: 3.785 ug/l

RT: 10.548 min Scan# 1448

Delta R.T. -0.018 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

Tgt Ion: 97 Resp: 18967

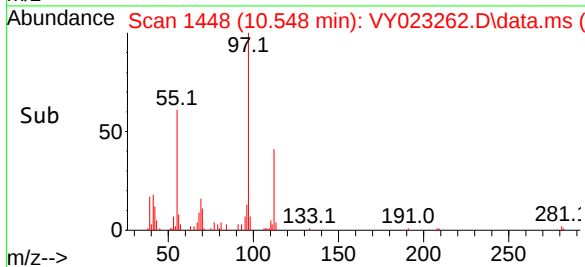
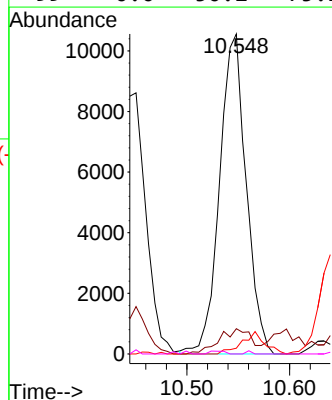
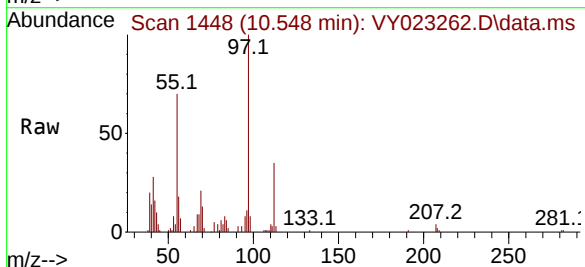
Ion Ratio Lower Upper

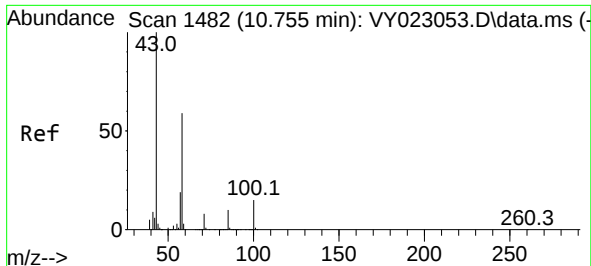
97 100

83 7.9 67.7 101.5#

85 1.8 44.5 66.7#

99 0.0 50.2 75.2#

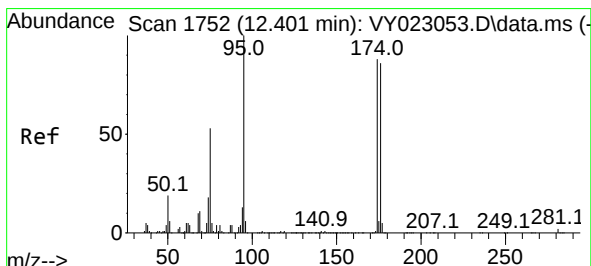
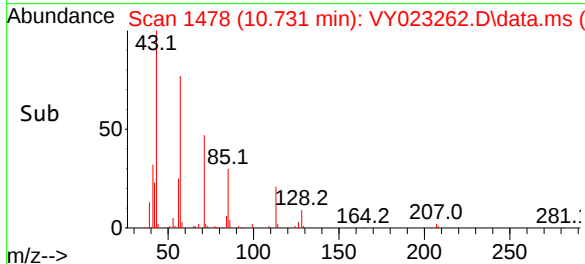
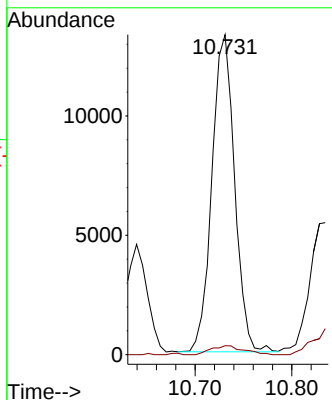
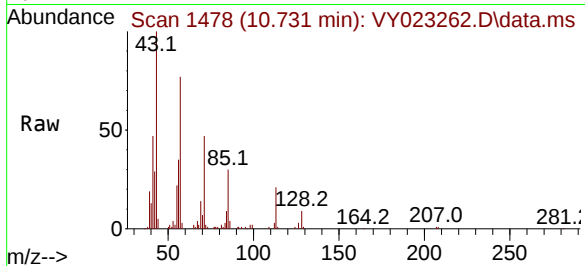




#59
2-Hexanone
Concen: 7.872 ug/l
RT: 10.731 min Scan# 1482
Delta R.T. -0.024 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

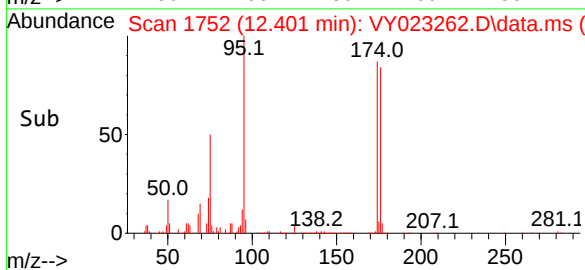
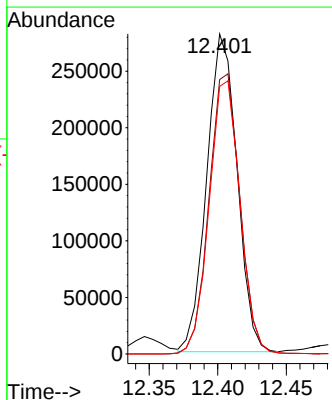
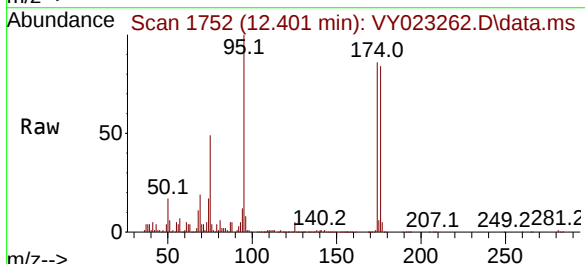
Instrument :
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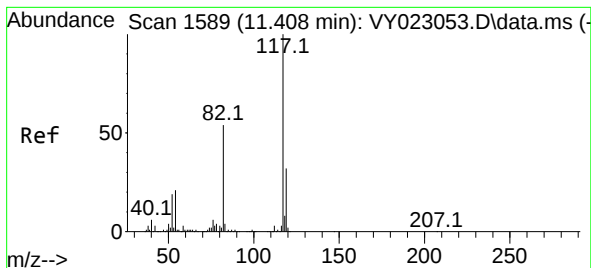
Tgt Ion: 43 Resp: 21597
Ion Ratio Lower Upper
43 100
58 4.1 29.5 88.5#



#62
4-Bromofluorobenzene
Concen: 55.598 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion: 95 Resp: 432383
Ion Ratio Lower Upper
95 100
174 89.9 0.0 171.6
176 87.6 0.0 167.6

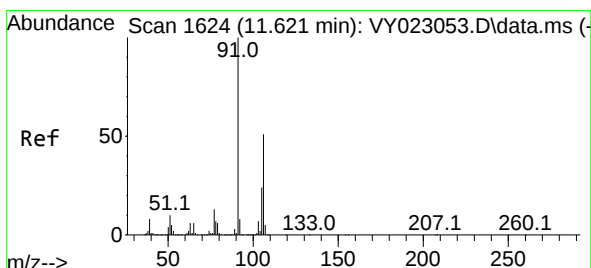
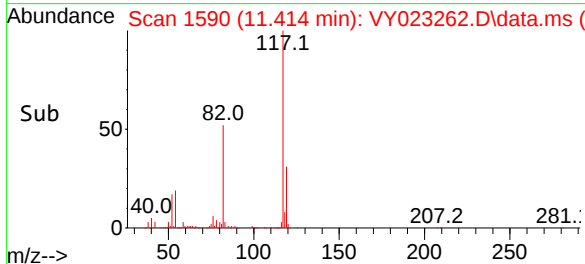
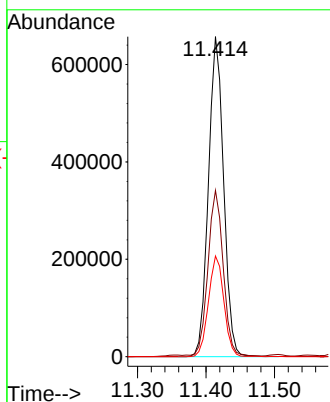
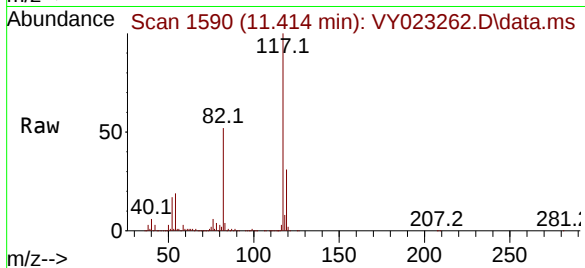




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

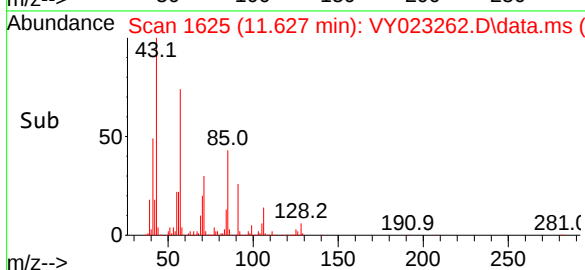
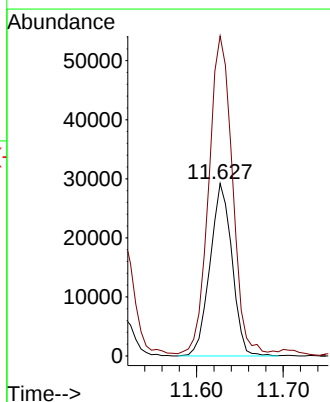
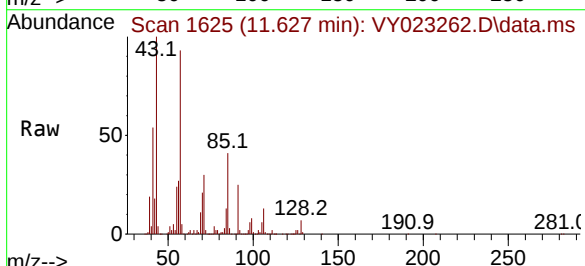
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

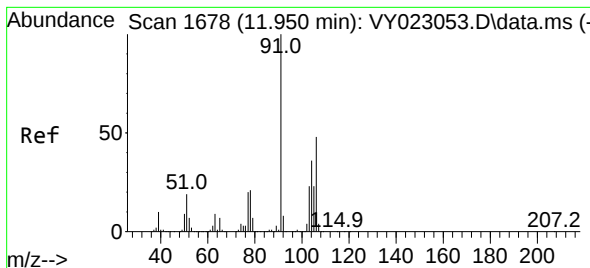
Tgt Ion:117 Resp: 1014555
Ion Ratio Lower Upper
117 100
82 51.4 43.4 65.0
119 31.4 25.6 38.4



#68
m/p-Xylenes
Concen: 3.498 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion:106 Resp: 51455
Ion Ratio Lower Upper
106 100
91 200.3 158.6 238.0

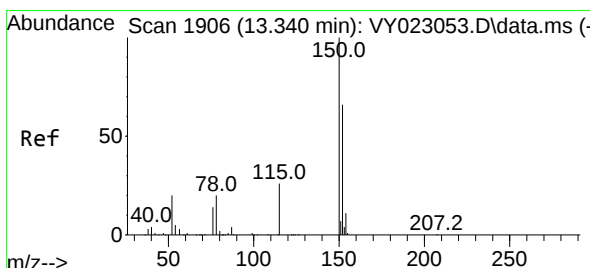
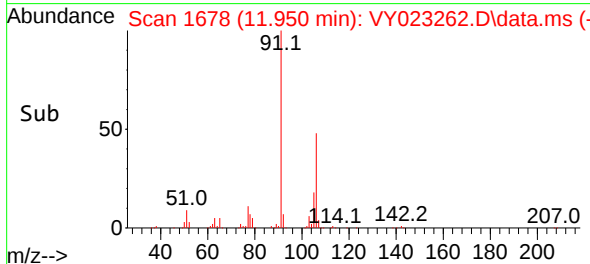
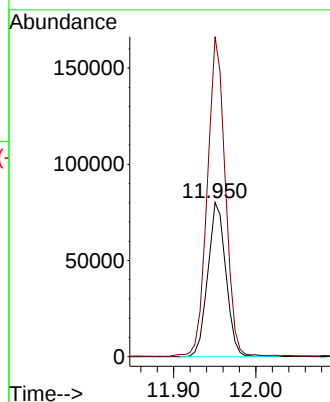
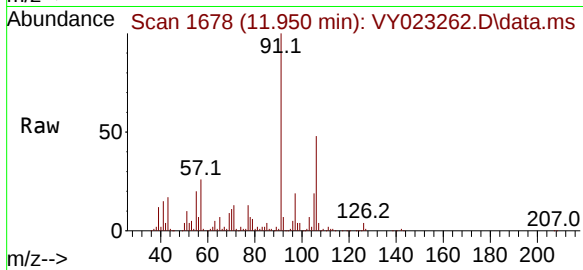




#69
o-Xylene
Concen: 8.861 ug/l
RT: 11.950 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

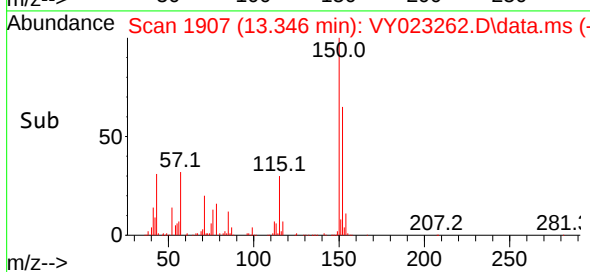
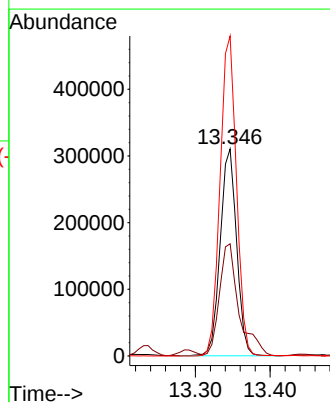
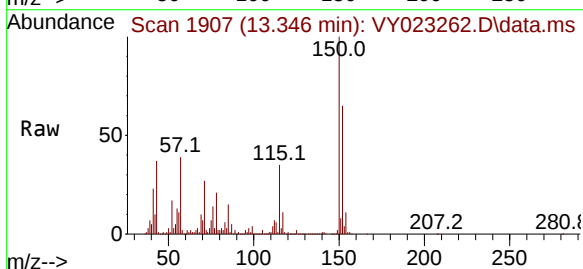
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

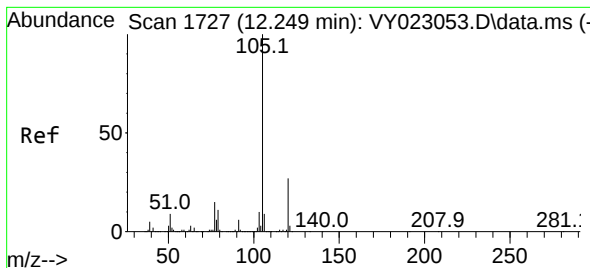
Tgt Ion:106 Resp: 122065
Ion Ratio Lower Upper
106 100
91 206.4 103.2 309.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion:152 Resp: 473920
Ion Ratio Lower Upper
152 100
115 64.3 28.2 84.6
150 154.3 0.0 348.0





#73

Isopropylbenzene

Concen: 1.481 ug/l

RT: 12.249 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

Instrument :

MSVOA_Y

ClientSampleId :

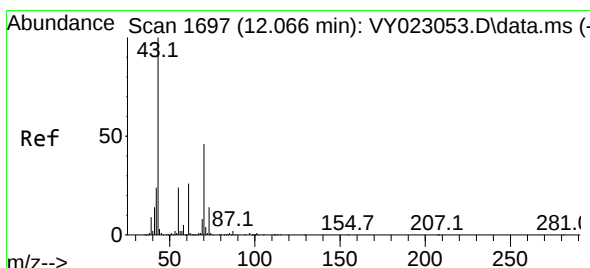
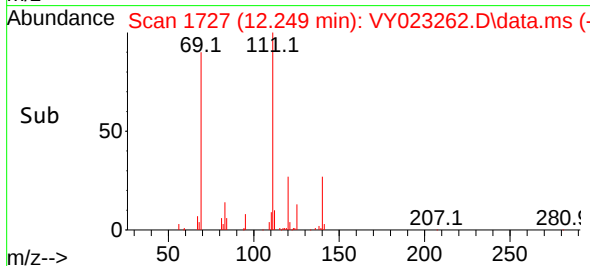
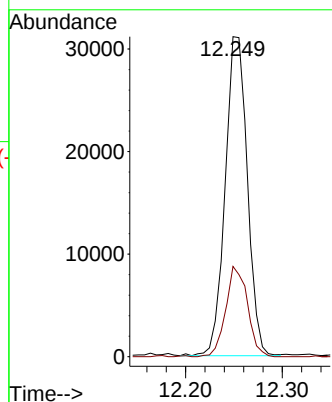
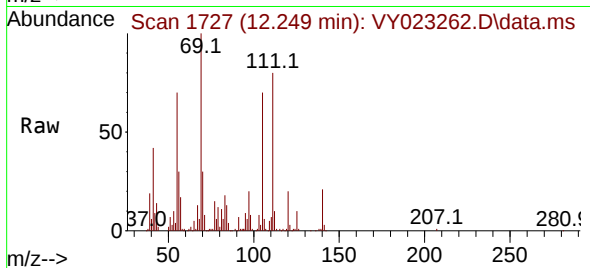
EO-01-082925

Tgt Ion:105 Resp: 49550

Ion Ratio Lower Upper

105 100

120 27.7 13.4 40.2



#74

N-ethyl acetate

Concen: 25.061 ug/l

RT: 12.048 min Scan# 1694

Delta R.T. -0.018 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

Tgt Ion: 43 Resp: 177766

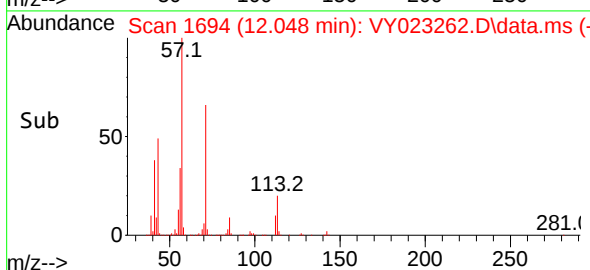
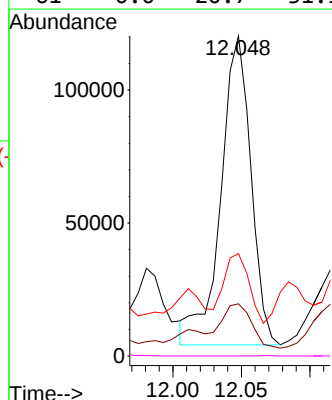
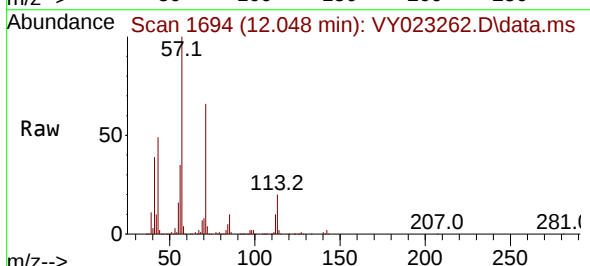
Ion Ratio Lower Upper

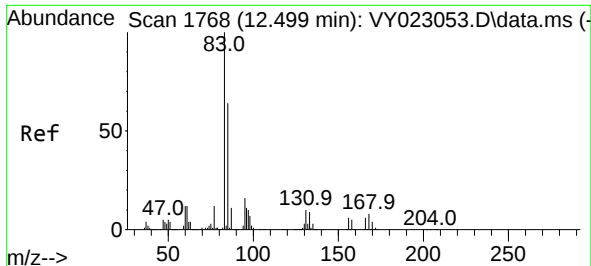
43 100

70 14.6 37.5 56.3#

55 18.4 20.7 31.1#

61 0.0 20.7 31.1#

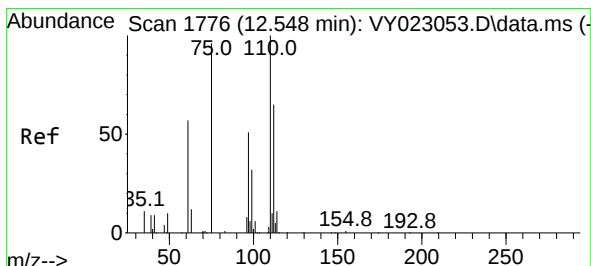
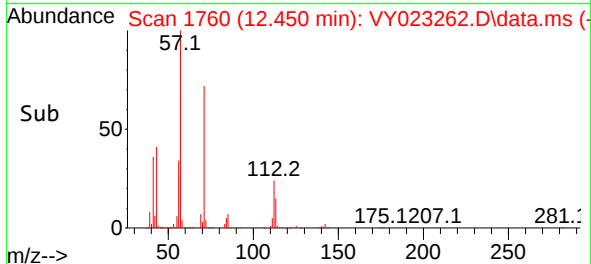
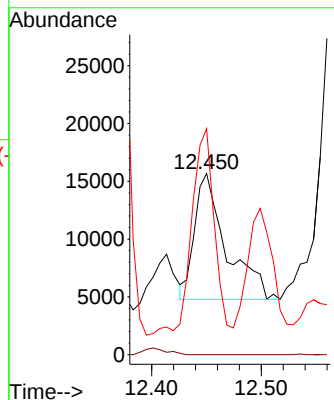
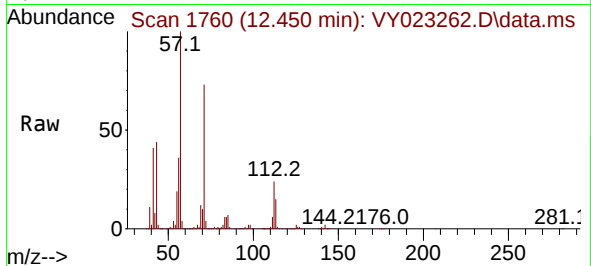




#75
 1,1,2,2-Tetrachloroethane
 Concen: 3.816 ug/l
 RT: 12.450 min Scan# 11
 Delta R.T. -0.049 min
 Lab File: VY023262.D
 Acq: 02 Sep 2025 14:00

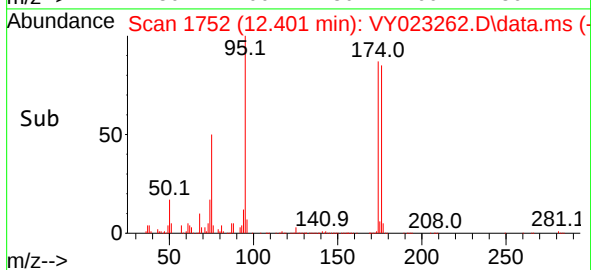
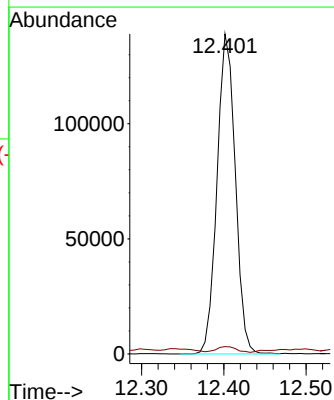
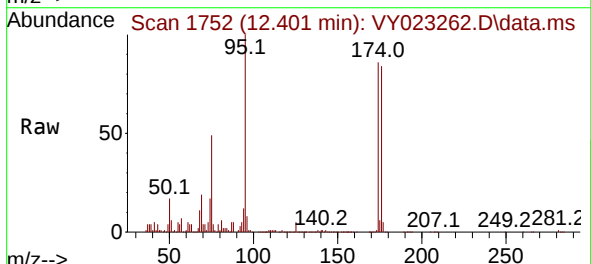
Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-01-082925

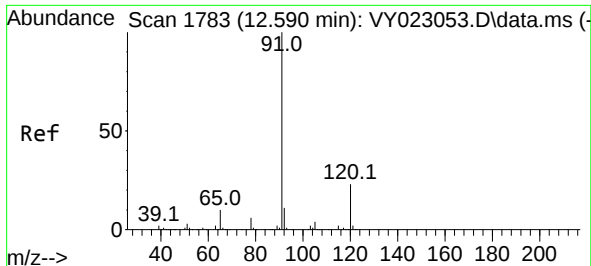
Tgt Ion: 83 Resp: 21795
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.1 15.3#
 85 114.8 31.8 95.3#



#76
 1,2,3-Trichloropropane
 Concen: 46.900 ug/l
 RT: 12.401 min Scan# 1752
 Delta R.T. -0.146 min
 Lab File: VY023262.D
 Acq: 02 Sep 2025 14:00

Tgt Ion: 75 Resp: 214512
 Ion Ratio Lower Upper
 75 100
 77 2.0 0.0 0.0#

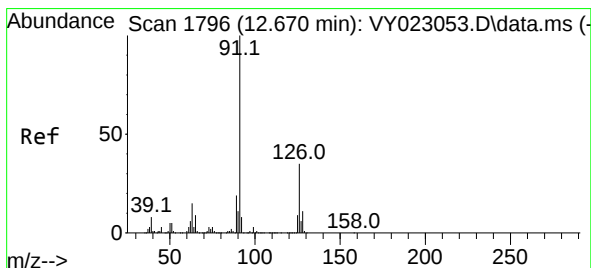
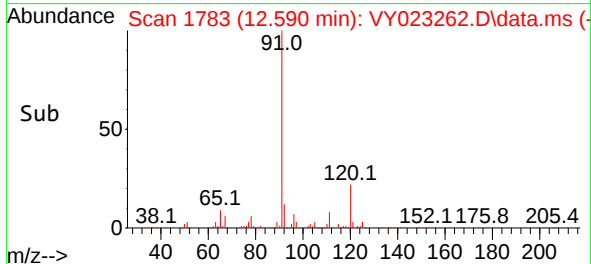
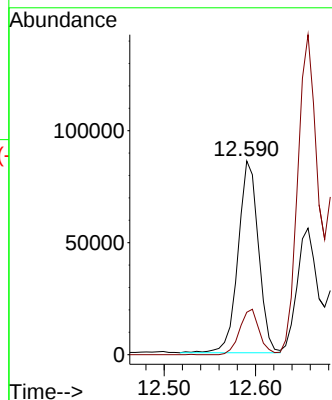
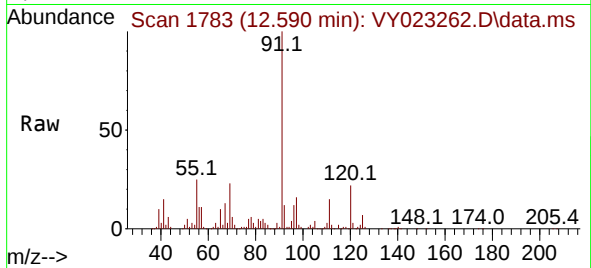




#78
n-propylbenzene
Concen: 3.333 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

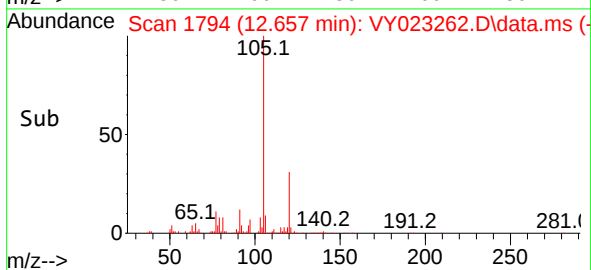
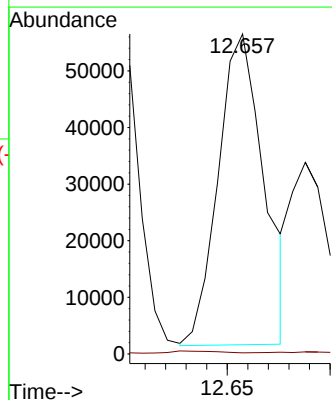
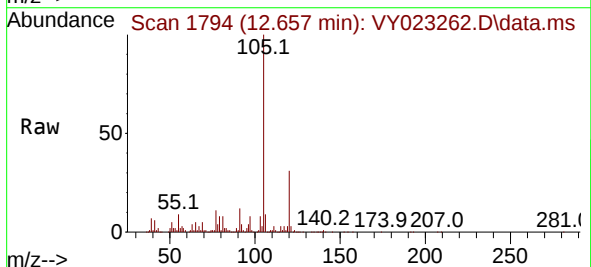
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

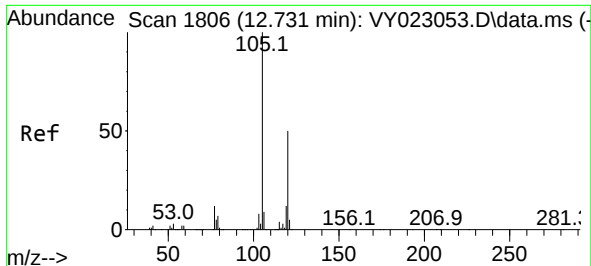
Tgt Ion: 91 Resp: 132718
Ion Ratio Lower Upper
91 100
120 22.6 11.5 34.5



#79
2-Chlorotoluene
Concen: 3.718 ug/l
RT: 12.657 min Scan# 1794
Delta R.T. -0.012 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion: 91 Resp: 84836
Ion Ratio Lower Upper
91 100
126 0.0 17.4 52.3#

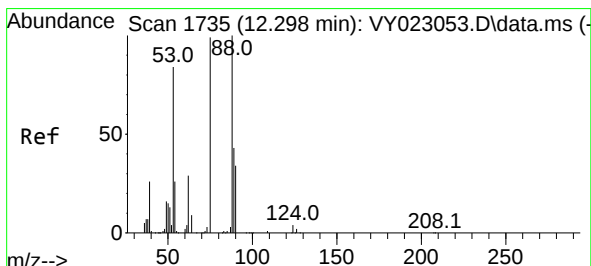
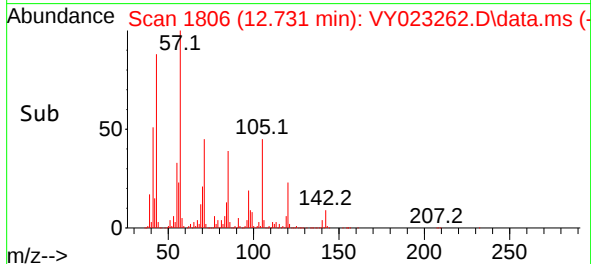
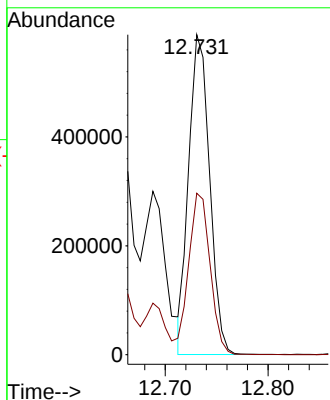
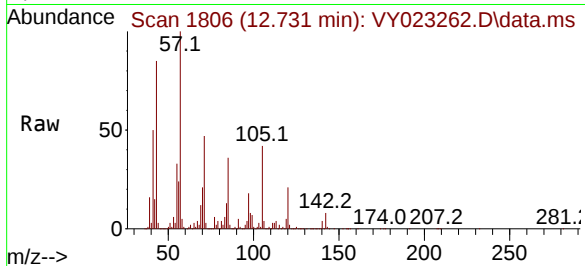




#80
1,3,5-Trimethylbenzene
Concen: 30.780 ug/l
RT: 12.731 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

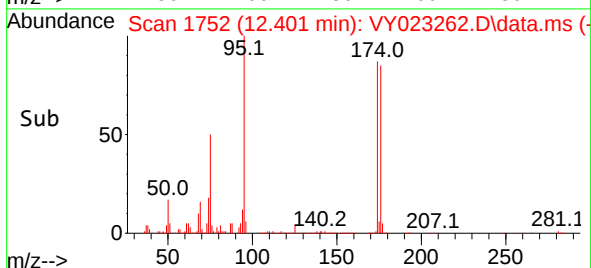
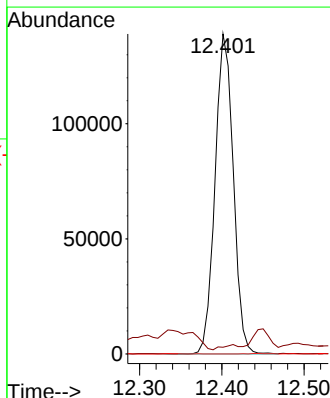
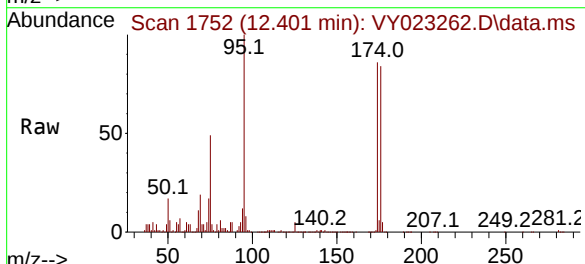
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

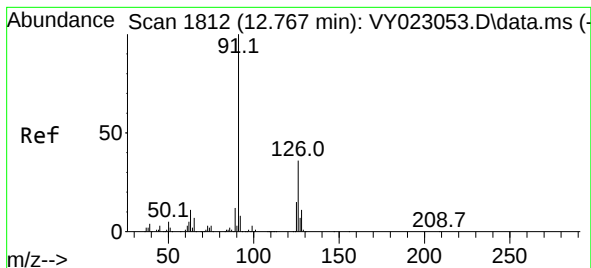
Tgt Ion:105 Resp: 832075
Ion Ratio Lower Upper
105 100
120 52.3 24.8 74.4



#81
trans-1,4-Dichloro-2-butene
Concen: 113.530 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion: 75 Resp: 214512
Ion Ratio Lower Upper
75 100
53 1.5 70.8 106.2#
89 0.0 38.1 57.1#

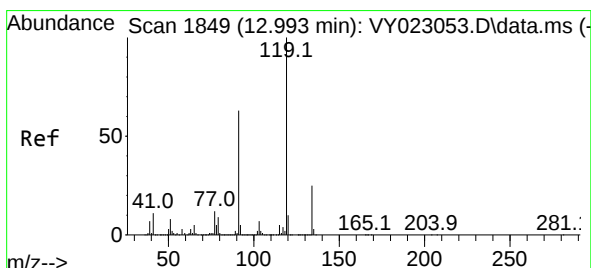
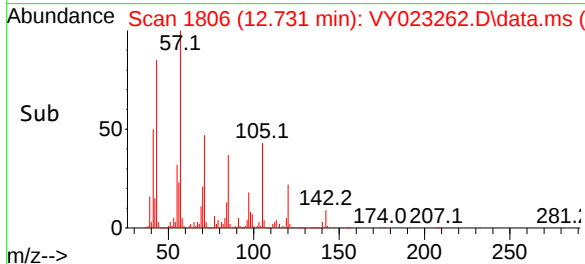
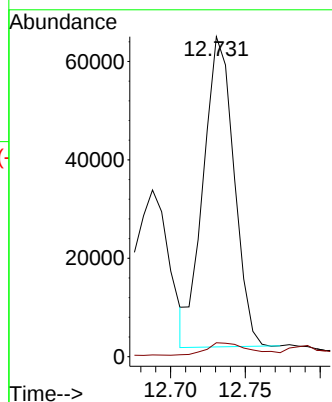
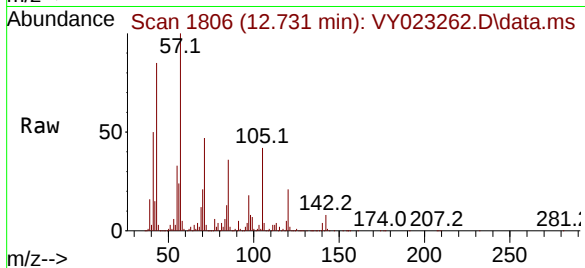




#82
4-Chlorotoluene
Concen: 3.798 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.037 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

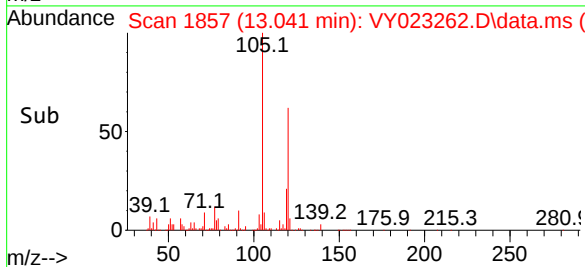
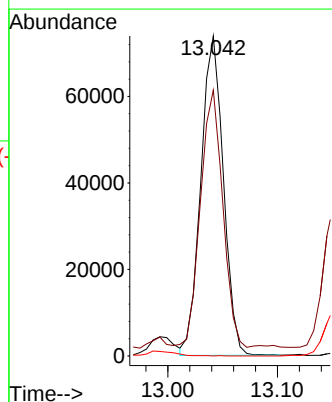
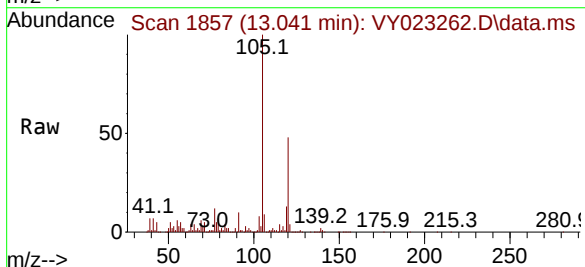
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

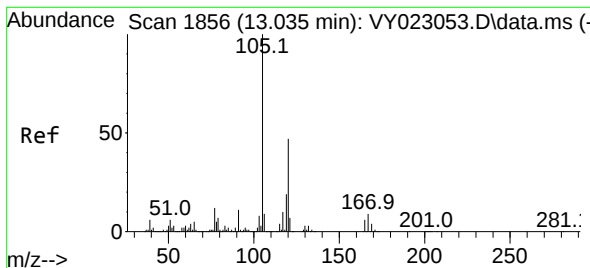
Tgt Ion: 91 Resp: 89903
Ion Ratio Lower Upper
91 100
126 6.2 17.3 52.0#



#83
tert-Butylbenzene
Concen: 4.323 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.049 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion: 119 Resp: 105558
Ion Ratio Lower Upper
119 100
91 79.1 31.6 94.8
134 0.0 12.9 38.7#





#84

1,2,4-Trimethylbenzene

Concen: 31.252 ug/l

RT: 13.041 min Scan# 1856

Delta R.T. 0.006 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

Instrument :

MSVOA_Y

ClientSampleId :

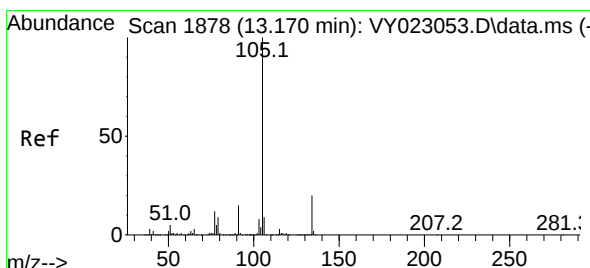
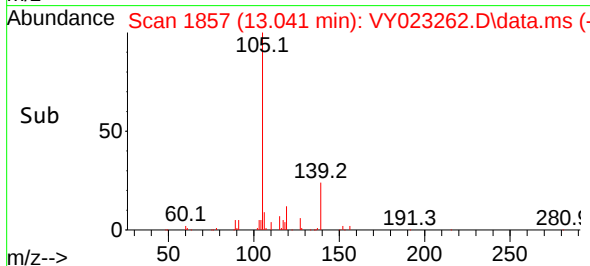
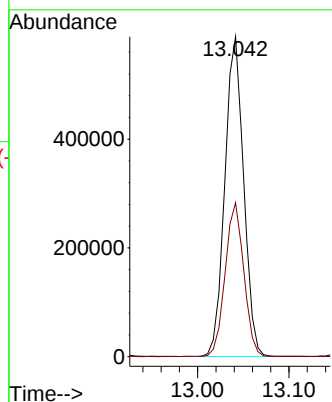
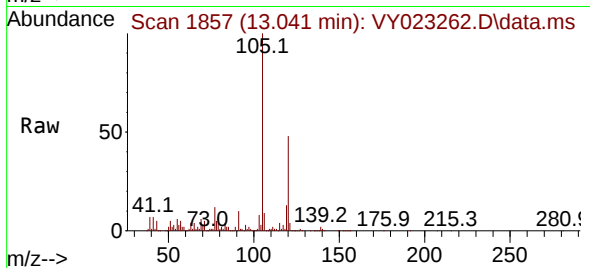
EO-01-082925

Tgt Ion:105 Resp: 840998

Ion Ratio Lower Upper

105 100

120 47.8 23.0 69.0



#85

sec-Butylbenzene

Concen: 5.608 ug/l

RT: 13.170 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VY023262.D

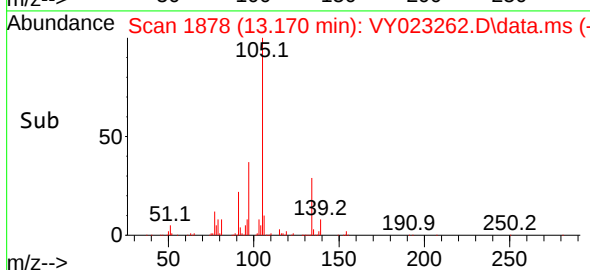
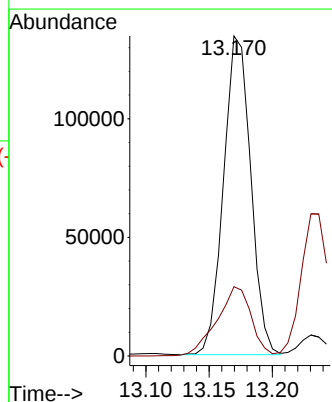
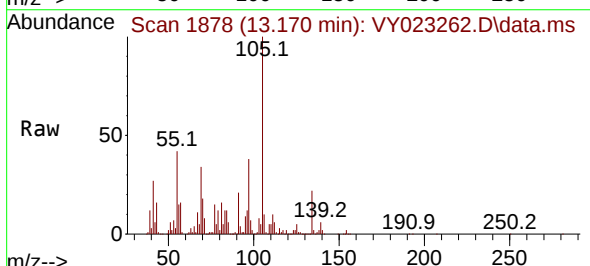
Acq: 02 Sep 2025 14:00

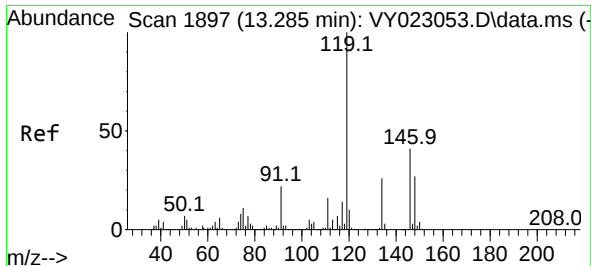
Tgt Ion:105 Resp: 201130

Ion Ratio Lower Upper

105 100

134 27.4 10.2 30.4

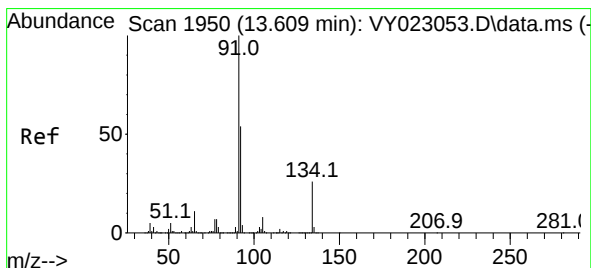
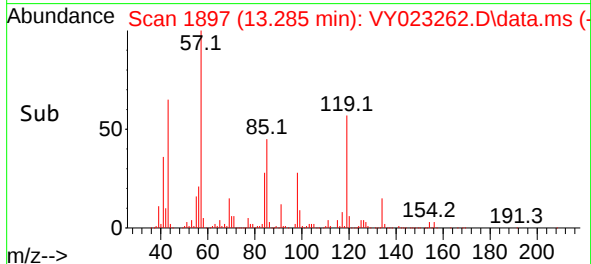
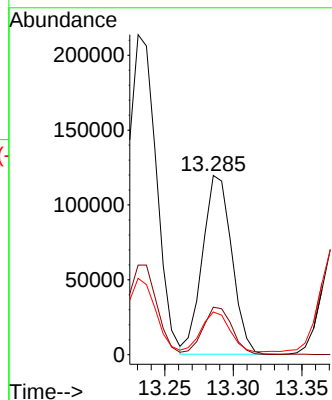
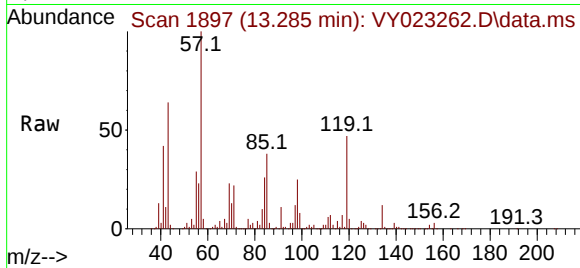




#86
p-Isopropyltoluene
Concen: 5.973 ug/l
RT: 13.285 min Scan# 119
Delta R.T. -0.000 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

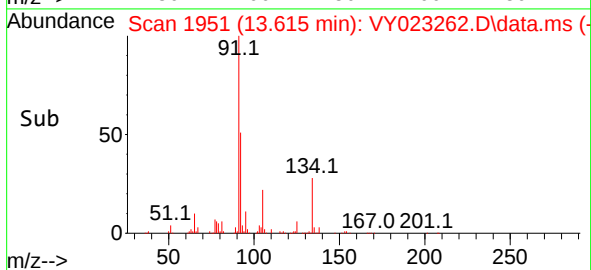
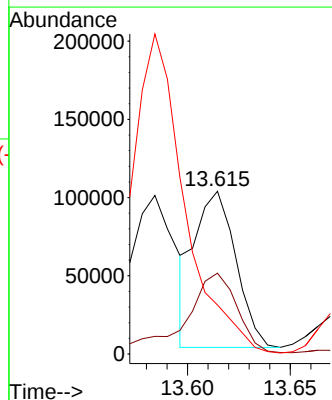
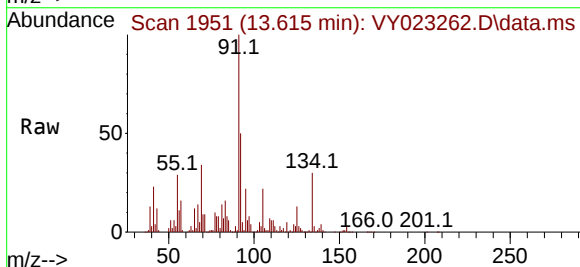
Instrument :
MSVOA_Y
ClientSampleId :
EO-01-082925

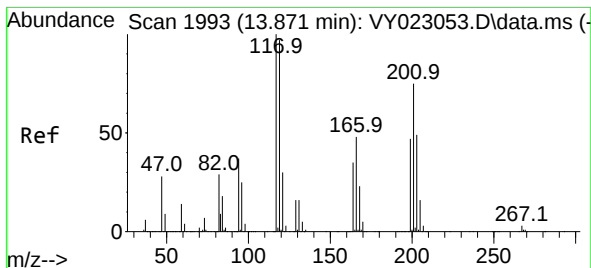
Tgt Ion:	119	Resp:	177819
Ion Ratio	Lower	Upper	
119	100		
134	26.2	13.2	39.6
91	21.2	11.3	33.8



#89
n-Butylbenzene
Concen: 5.062 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. 0.006 min
Lab File: VY023262.D
Acq: 02 Sep 2025 14:00

Tgt Ion:	91	Resp:	138408
Ion Ratio	Lower	Upper	
91	100		
92	64.8	26.9	80.7
134	0.0	13.2	39.5





#90

Hexachloroethane

Concen: 10.431 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.018 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

Instrument :

MSVOA_Y

ClientSampleId :

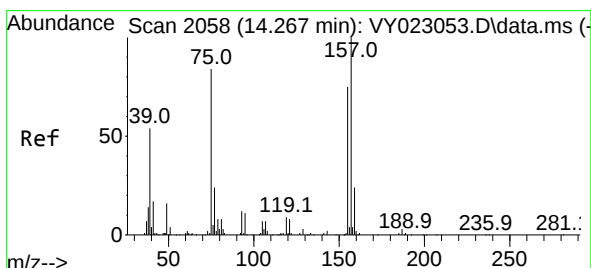
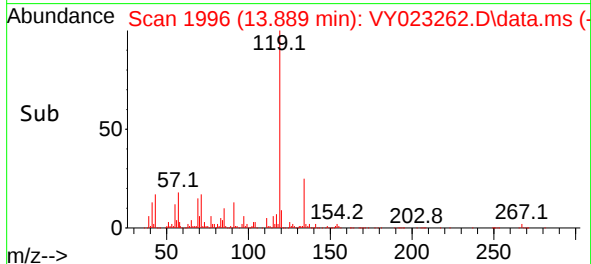
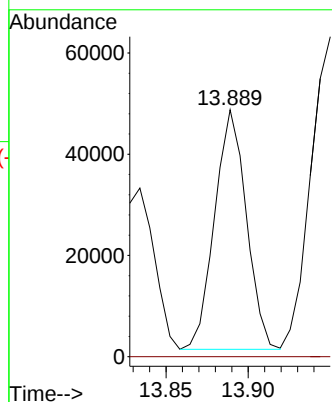
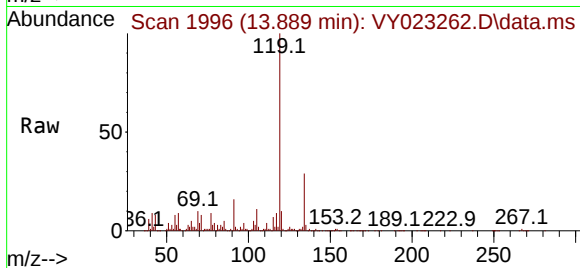
EO-01-082925

Tgt Ion:117 Resp: 63573

Ion Ratio Lower Upper

117 100

201 0.0 38.4 115.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.471 ug/l

RT: 14.249 min Scan# 2055

Delta R.T. -0.018 min

Lab File: VY023262.D

Acq: 02 Sep 2025 14:00

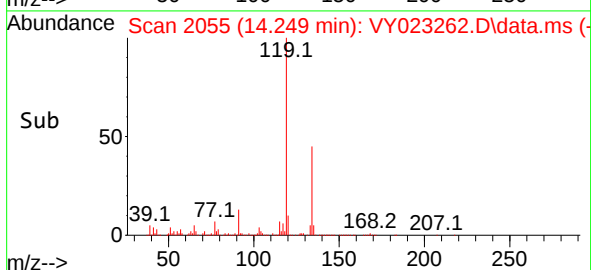
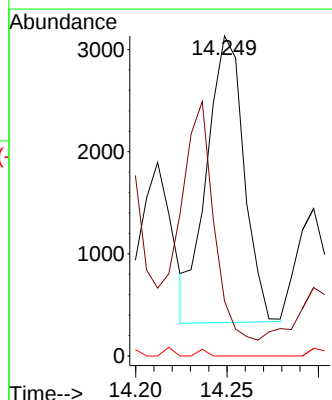
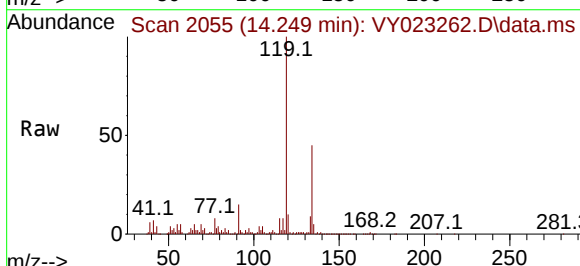
Tgt Ion: 75 Resp: 3976

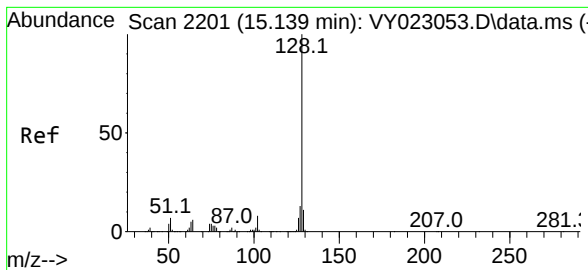
Ion Ratio Lower Upper

75 100

155 79.0 43.9 131.6

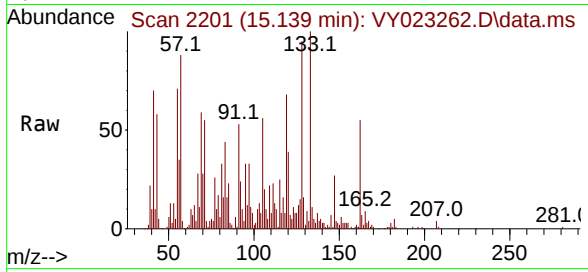
157 0.6 57.2 171.6#





#95
 Naphthalene
 Concen: 2.334 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY023262.D
 Acq: 02 Sep 2025 14:00

Instrument :
 MSVOA_Y
 ClientSampleId :
 EO-01-082925



Tgt Ion:128 Resp: 32482
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 7.2 9.0 13.4#

