

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103025\
 Data File : VY023628.D
 Acq On : 30 Oct 2025 13:26
 Operator : SY/MD
 Sample : Q3485-01
 Misc : 6.69g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 31 02:39:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

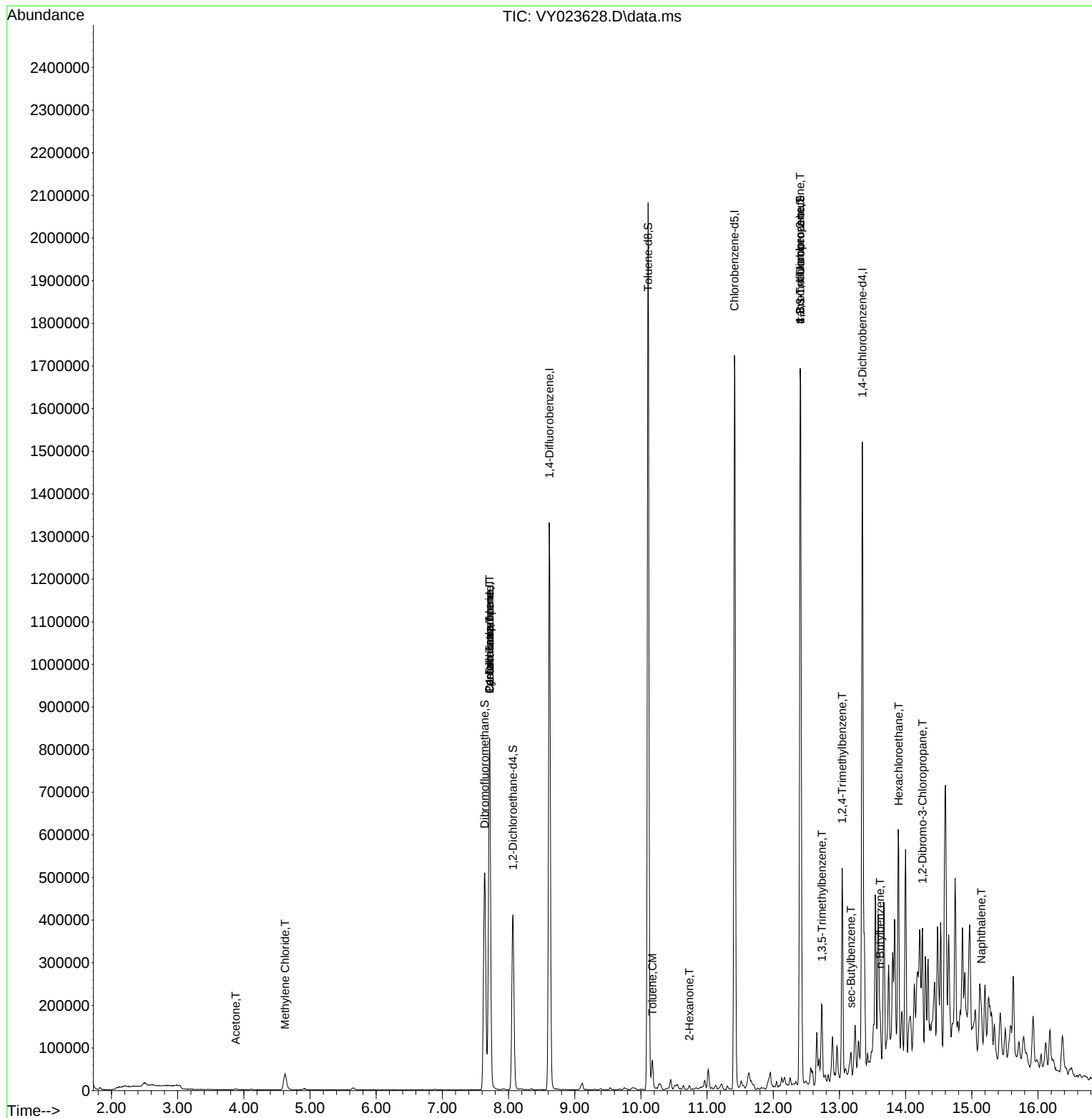
Internal Standards						
1) Pentafluorobenzene	7.713	168	676809	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1178445	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	991596	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	387787	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	326380	57.669	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	115.340%
35) Dibromofluoromethane	7.640	113	374039	51.656	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.320%
50) Toluene-d8	10.109	98	1346819	49.945	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.880%
62) 4-Bromofluorobenzene	12.408	95	381823	42.888	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	85.780%
Target Compounds						
					Qvalue	
16) Acetone	3.879	43	4125	3.062	ug/l #	86
20) Methylene Chloride	4.622	84	30558	4.194	ug/l	97
31) Cyclohexane	7.713	56	12493	1.327	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	46041	4.803	ug/l #	48
38) Carbon Tetrachloride	7.713	117	63094	5.428	ug/l #	17
52) Toluene	10.176	92	28323	1.437	ug/l	98
59) 2-Hexanone	10.731	43	3250	1.162	ug/l #	28
76) 1,2,3-Trichloropropane	12.408	75	193146	56.454	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.737	105	52306	2.533	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.408	75	193146	138.435	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.042	105	254914	12.369	ug/l	100
85) sec-Butylbenzene	13.176	105	27670	1.012	ug/l	81
89) n-Butylbenzene	13.615	91	54512	2.686	ug/l #	76
90) Hexachloroethane	13.895	117	20528	4.098	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.255	75	851	1.241	ug/l #	18
95) Naphthalene	15.145	128	62230	5.404	ug/l #	93

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103025\
Data File : VY023628.D
Acq On : 30 Oct 2025 13:26
Operator : SY/MD
Sample : Q3485-01
Misc : 6.69g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :

Quant Time: Oct 31 02:39:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

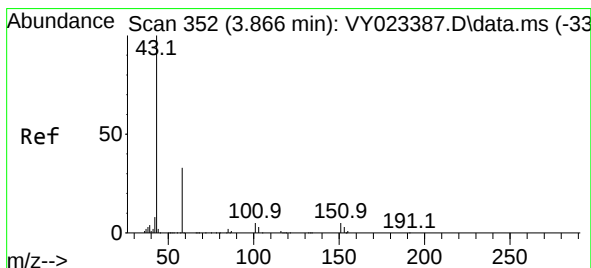
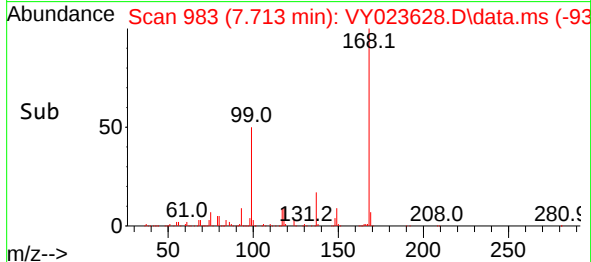
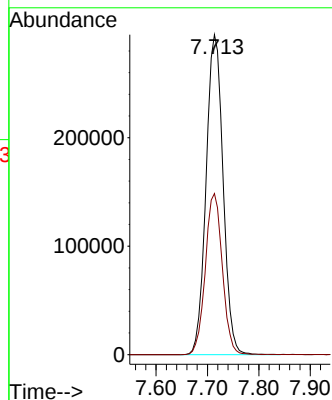
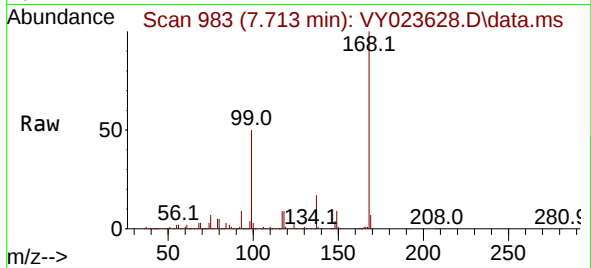




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

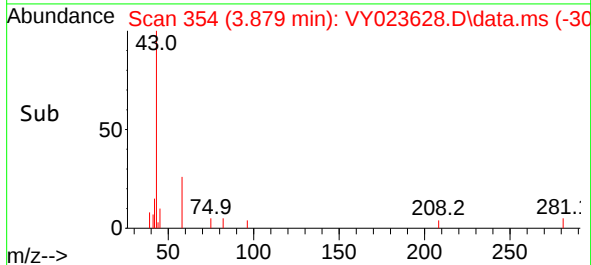
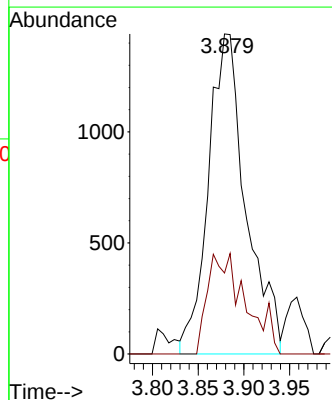
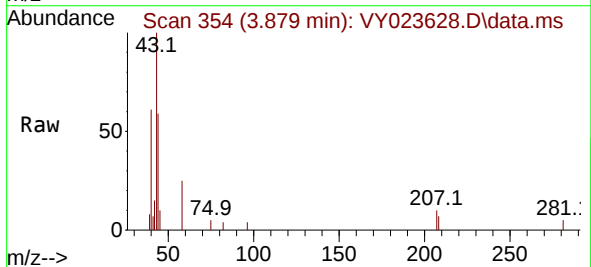
Instrument :
MSVOA_Y
ClientSampleId :

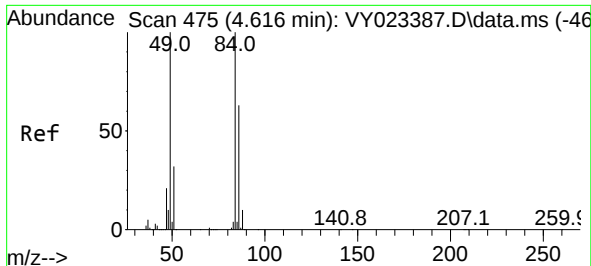
Tgt Ion:168 Resp: 676809
Ion Ratio Lower Upper
168 100
99 50.3 39.7 59.5



#16
Acetone
Concen: 3.062 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.012 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

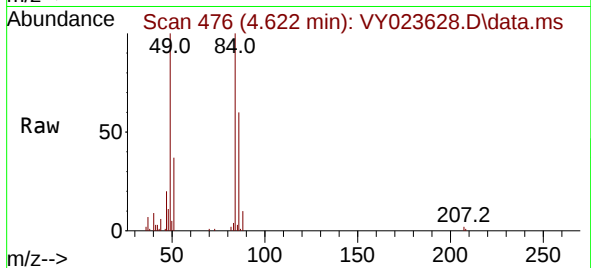
Tgt Ion: 43 Resp: 4125
Ion Ratio Lower Upper
43 100
58 26.4 27.7 41.5#



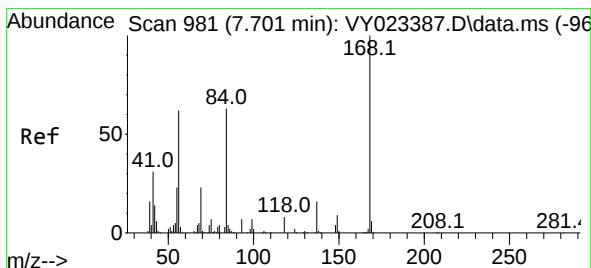
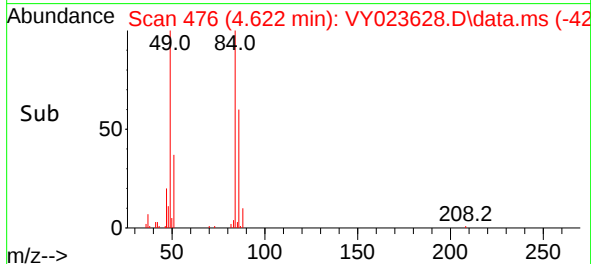
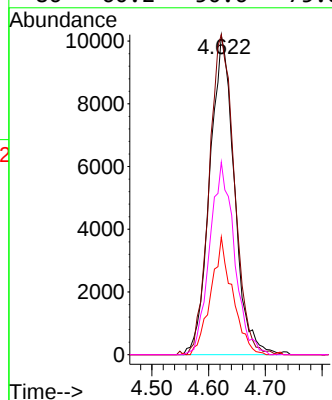


#20
Methylene Chloride
Concen: 4.194 ug/l
RT: 4.622 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :

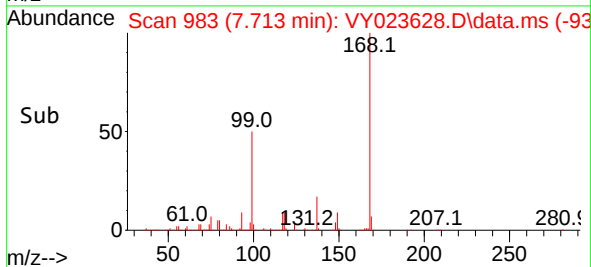
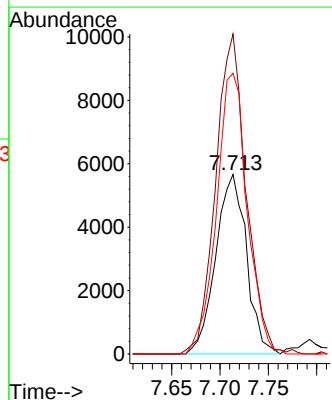
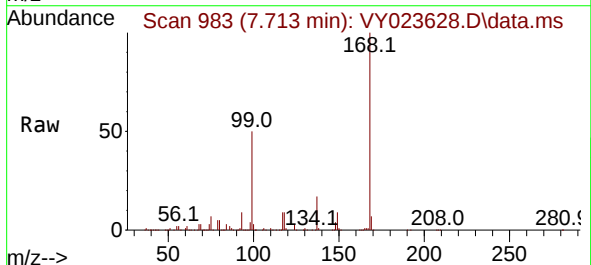


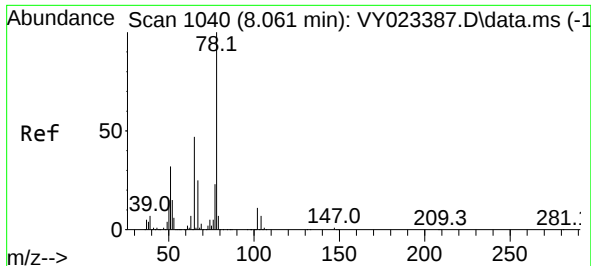
Tgt Ion:	84	Resp:	30558
Ion	Ratio	Lower	Upper
84	100		
49	99.6	80.2	120.4
51	36.8	25.9	38.9
86	60.2	50.6	75.8



#31
Cyclohexane
Concen: 1.327 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.012 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Tgt Ion:	56	Resp:	12493
Ion	Ratio	Lower	Upper
56	100		
69	178.3	30.0	45.0#
84	156.4	81.2	121.8#





#33

1,2-Dichloroethane-d4

Concen: 57.669 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023628.D

Acq: 30 Oct 2025 13:26

Instrument :

MSVOA_Y

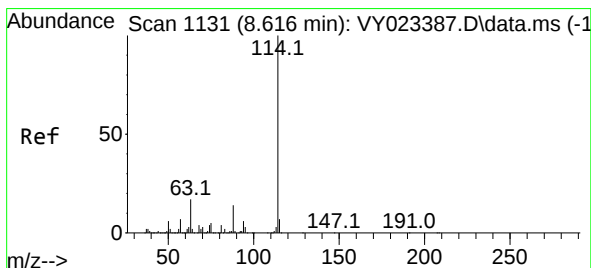
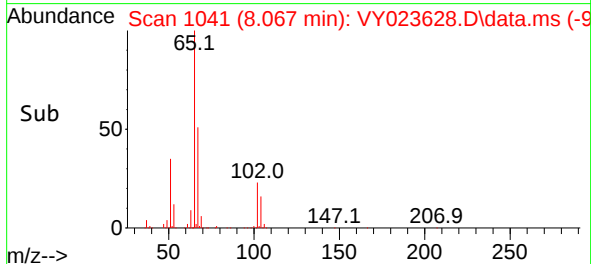
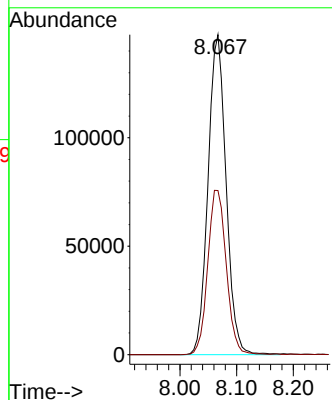
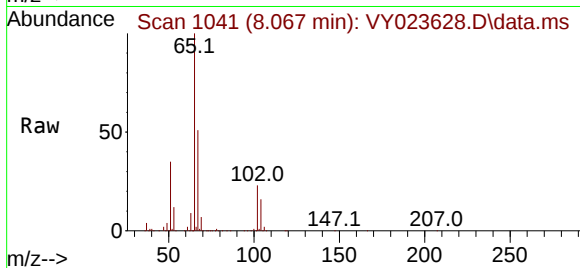
ClientSampleId :

Tgt Ion: 65 Resp: 326380

Ion Ratio Lower Upper

65 100

67 52.8 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023628.D

Acq: 30 Oct 2025 13:26

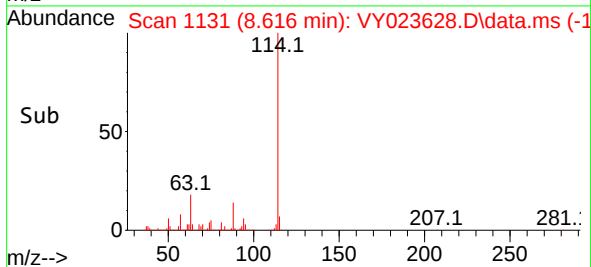
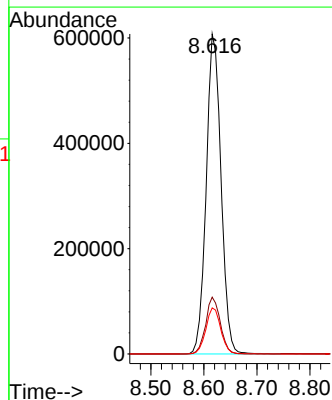
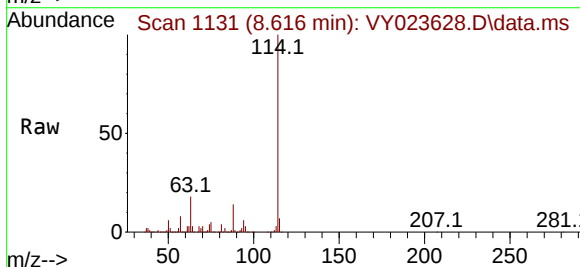
Tgt Ion: 114 Resp: 1178445

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.2

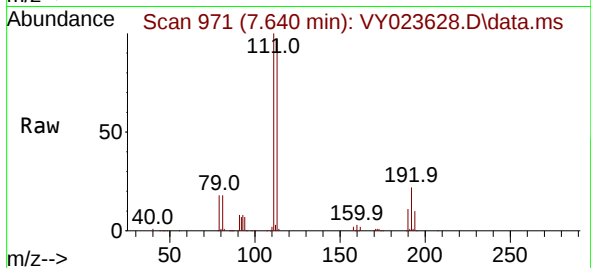
88 14.4 0.0 28.4



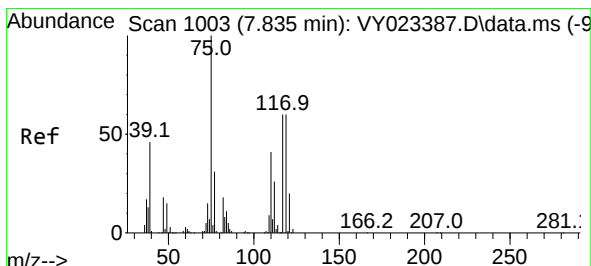
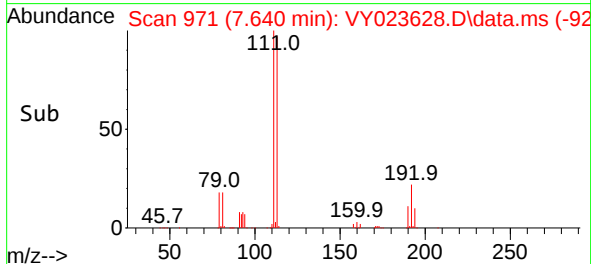
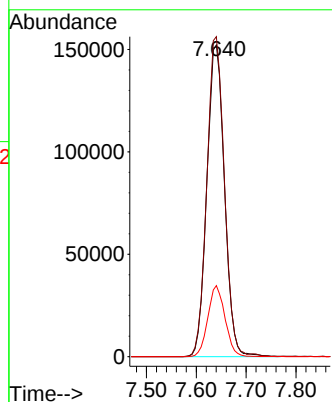


#35
Dibromofluoromethane
Concen: 51.656 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :

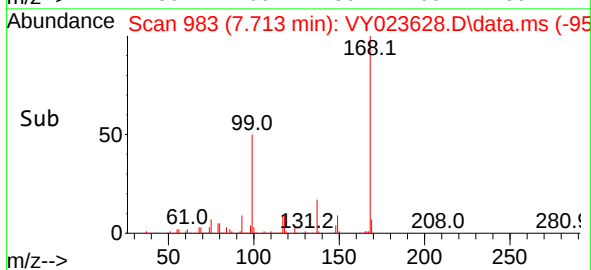
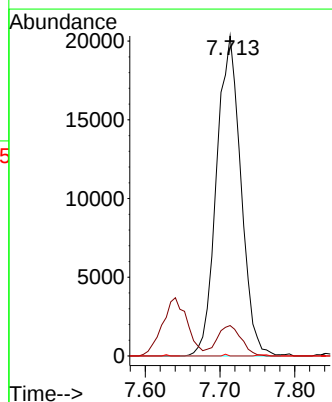
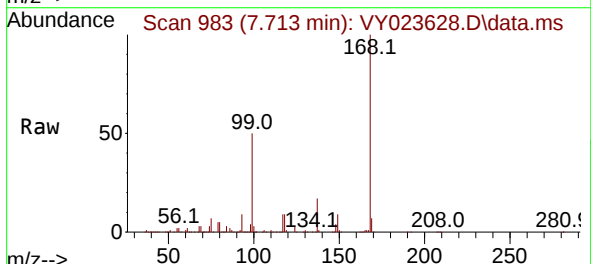


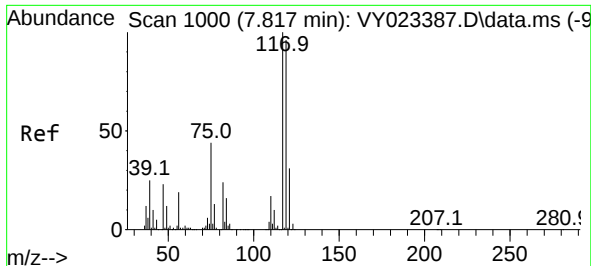
Tgt Ion:113 Resp: 374039
Ion Ratio Lower Upper
113 100
111 101.9 81.8 122.6
192 22.2 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.803 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Tgt Ion: 75 Resp: 46041
Ion Ratio Lower Upper
75 100
110 9.5 19.9 59.7#
77 0.0 25.0 37.6#

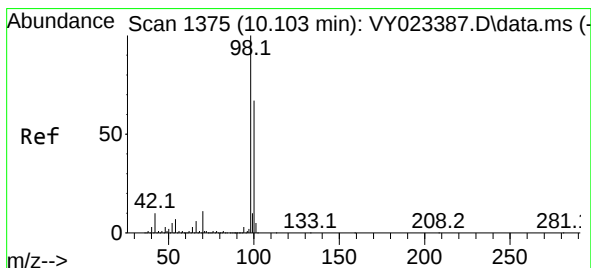
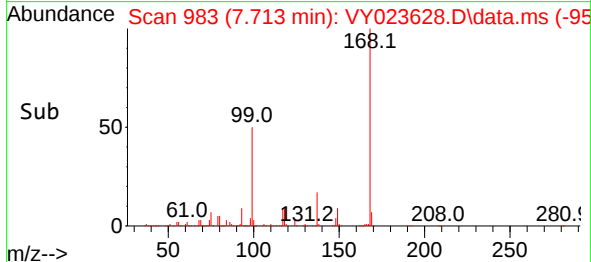
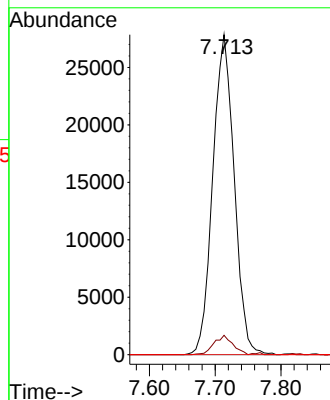
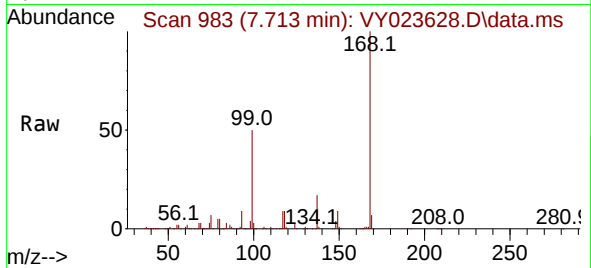




#38
Carbon Tetrachloride
Concen: 5.428 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

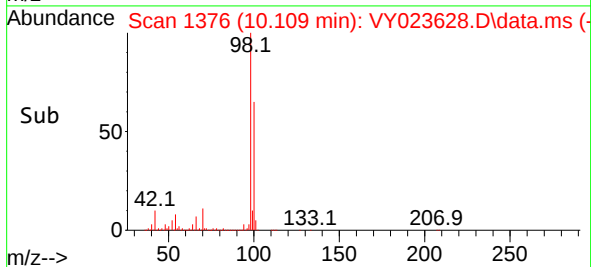
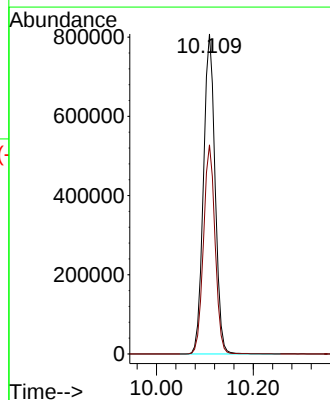
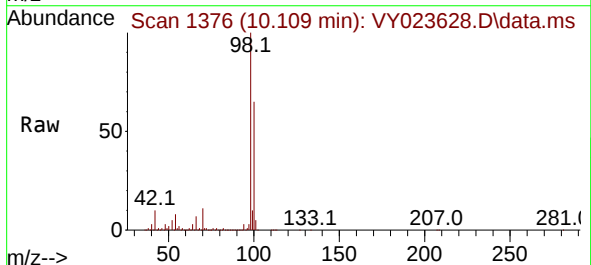
Instrument :
MSVOA_Y
ClientSampleId :

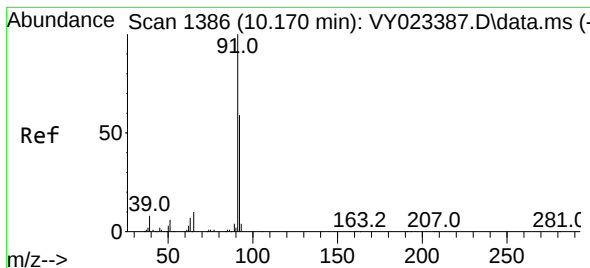
Tgt Ion:117 Resp: 63094
Ion Ratio Lower Upper
117 100
119 6.1 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 49.945 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Tgt Ion: 98 Resp: 1346819
Ion Ratio Lower Upper
98 100
100 65.0 53.0 79.4





#52

Toluene

Concen: 1.437 ug/l

RT: 10.176 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023628.D

Acq: 30 Oct 2025 13:26

Instrument :

MSVOA_Y

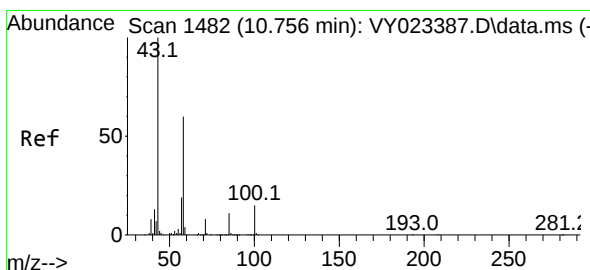
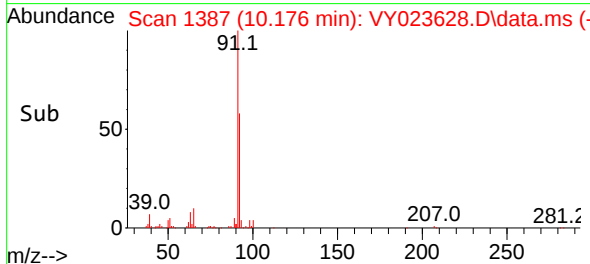
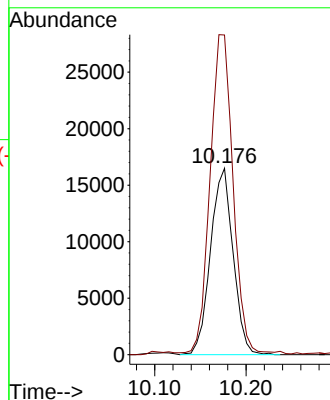
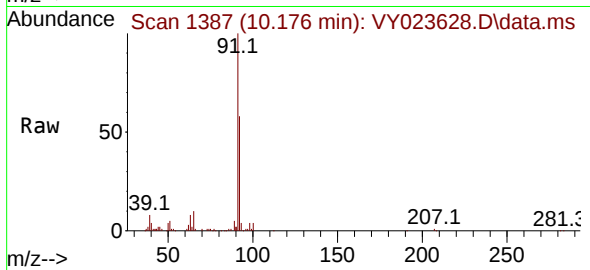
ClientSampleId :

Tgt Ion: 92 Resp: 28323

Ion Ratio Lower Upper

92 100

91 173.8 136.4 204.6



#59

2-Hexanone

Concen: 1.162 ug/l

RT: 10.731 min Scan# 1478

Delta R.T. -0.024 min

Lab File: VY023628.D

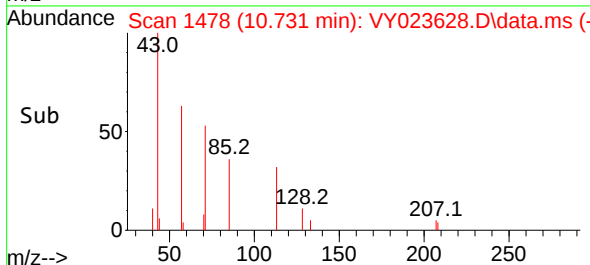
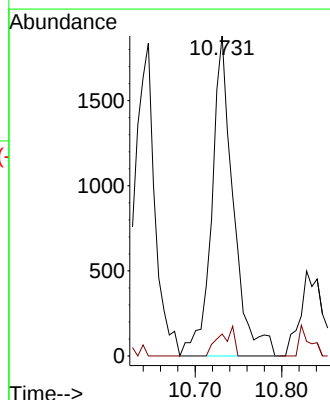
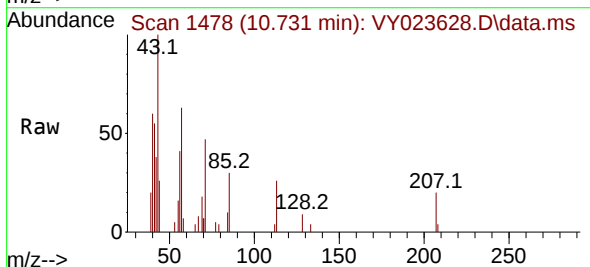
Acq: 30 Oct 2025 13:26

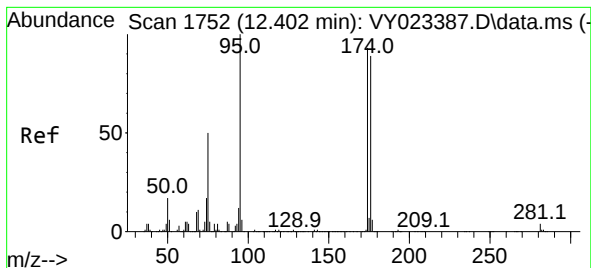
Tgt Ion: 43 Resp: 3250

Ion Ratio Lower Upper

43 100

58 6.3 30.5 91.5#





#62

4-Bromofluorobenzene

Concen: 42.888 ug/l

RT: 12.408 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023628.D

Acq: 30 Oct 2025 13:26

Instrument :

MSVOA_Y

ClientSampleId :

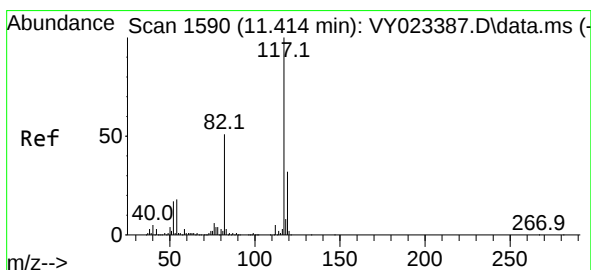
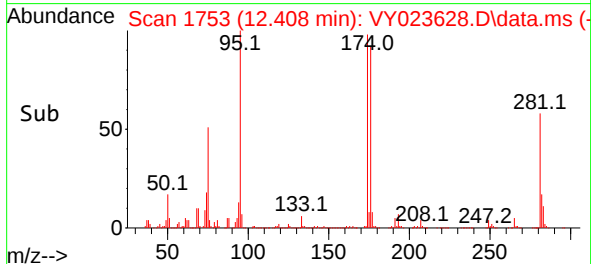
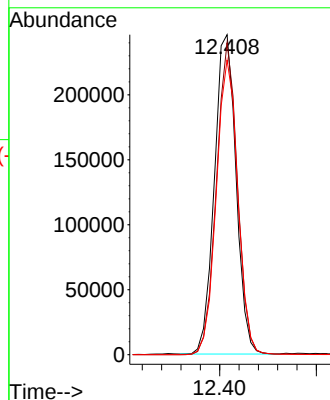
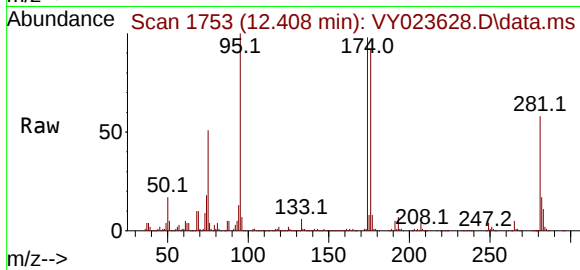
Tgt Ion: 95 Resp: 381823

Ion Ratio Lower Upper

95 100

174 94.9 0.0 192.8

176 91.8 0.0 187.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. 0.000 min

Lab File: VY023628.D

Acq: 30 Oct 2025 13:26

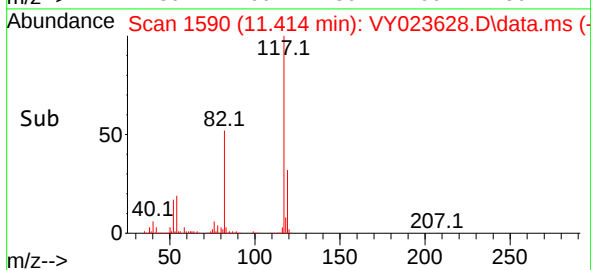
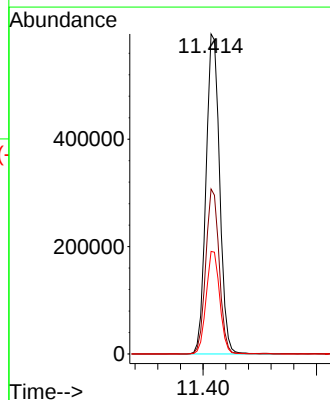
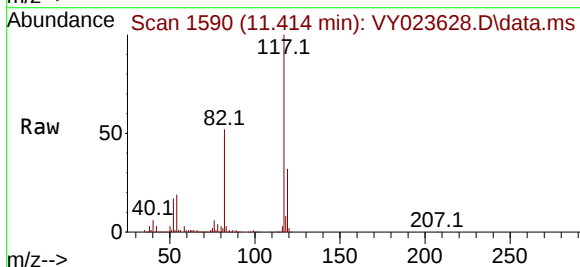
Tgt Ion: 117 Resp: 991596

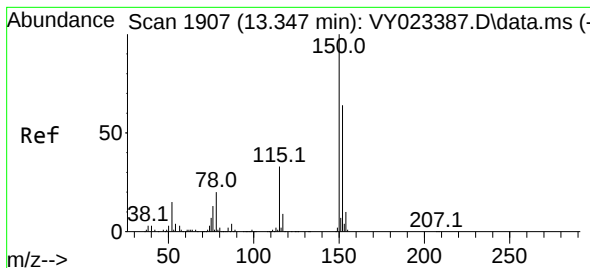
Ion Ratio Lower Upper

117 100

82 51.5 41.0 61.4

119 32.0 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023628.D

Acq: 30 Oct 2025 13:26

Instrument :

MSVOA_Y

ClientSampleId :

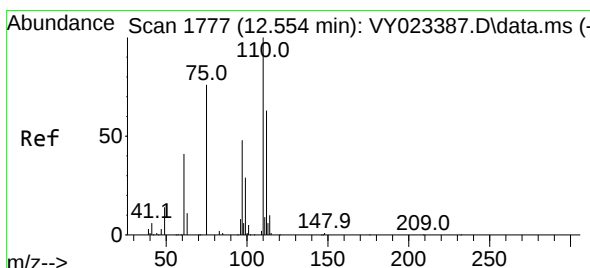
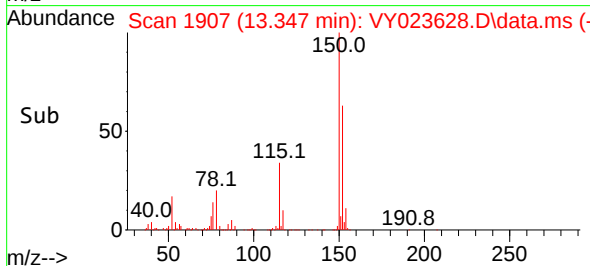
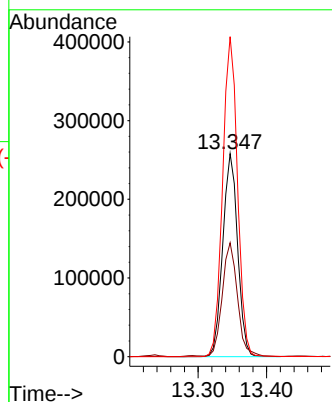
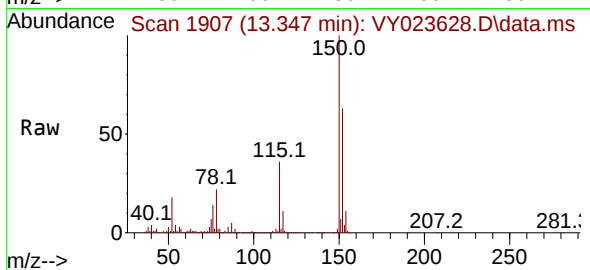
Tgt Ion:152 Resp: 387787

Ion Ratio Lower Upper

152 100

115 57.0 27.1 81.2

150 157.3 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 56.454 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023628.D

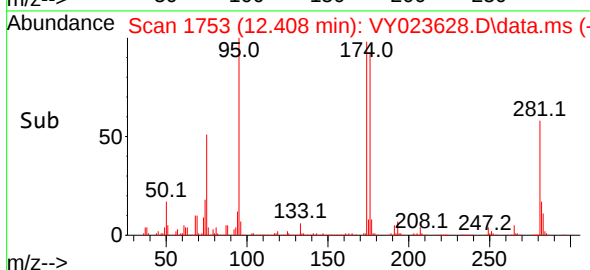
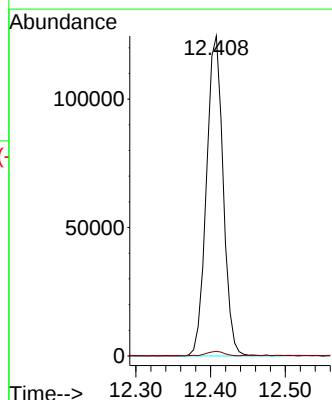
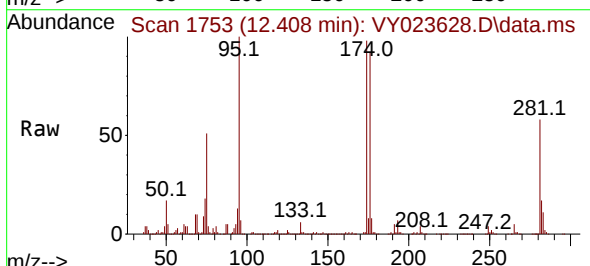
Acq: 30 Oct 2025 13:26

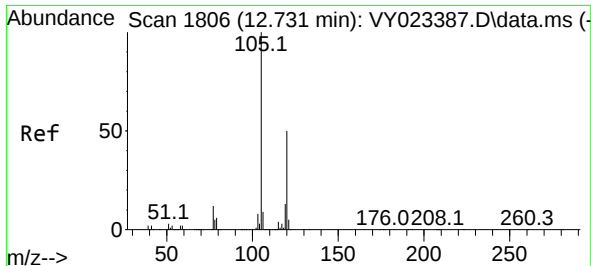
Tgt Ion: 75 Resp: 193146

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

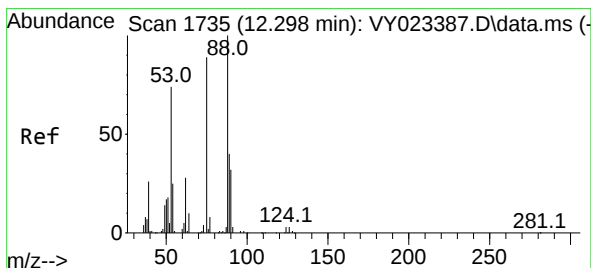
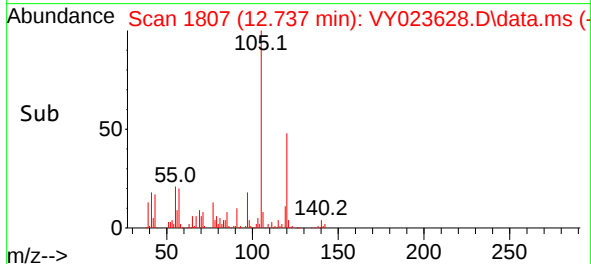
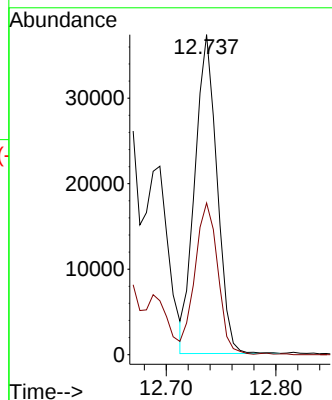
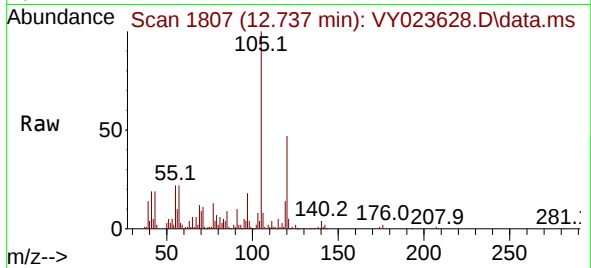




#80
 1,3,5-Trimethylbenzene
 Concen: 2.533 ug/l
 RT: 12.737 min Scan# 1806
 Delta R.T. 0.006 min
 Lab File: VY023628.D
 Acq: 30 Oct 2025 13:26

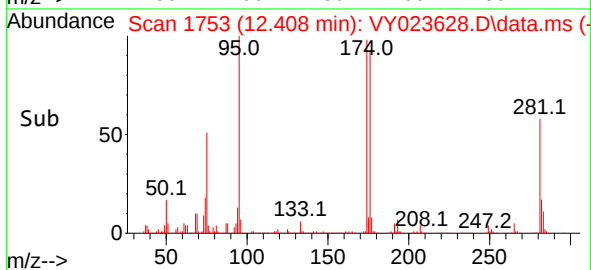
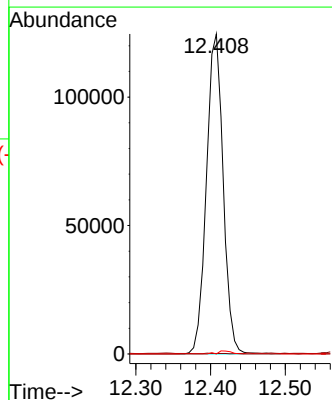
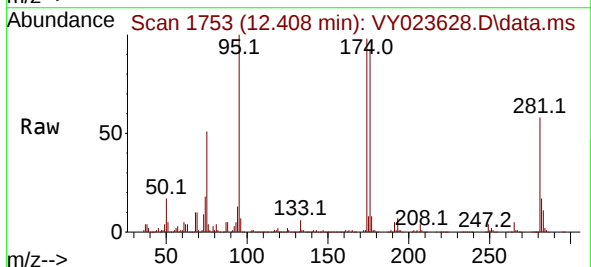
Instrument :
 MSVOA_Y
 ClientSampleId :

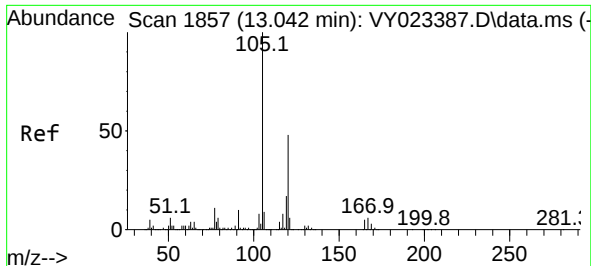
Tgt Ion:105 Resp: 52306
 Ion Ratio Lower Upper
 105 100
 120 48.9 25.4 76.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 138.435 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.110 min
 Lab File: VY023628.D
 Acq: 30 Oct 2025 13:26

Tgt Ion: 75 Resp: 193146
 Ion Ratio Lower Upper
 75 100
 53 0.1 68.6 102.8#
 89 0.8 39.0 58.4#

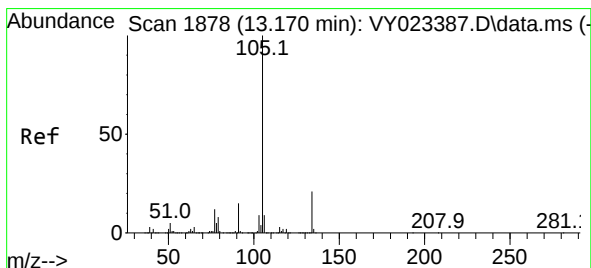
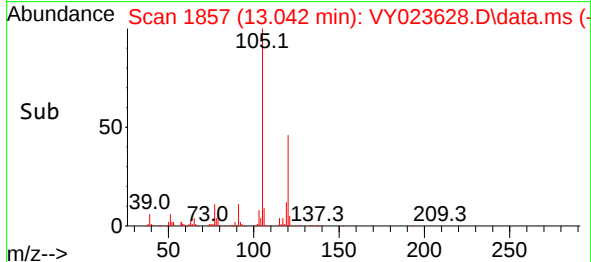
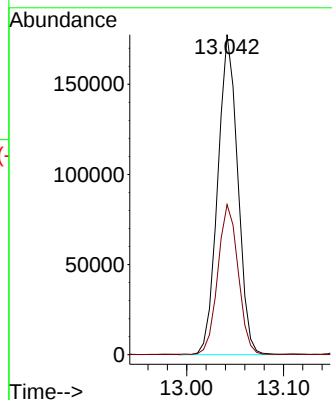
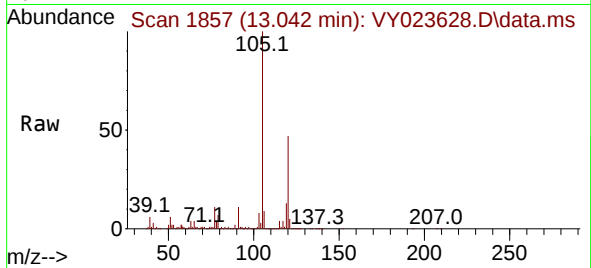




#84
1,2,4-Trimethylbenzene
Concen: 12.369 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

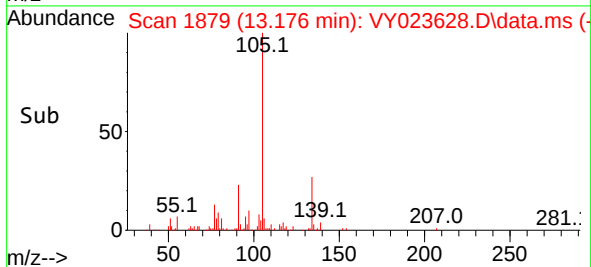
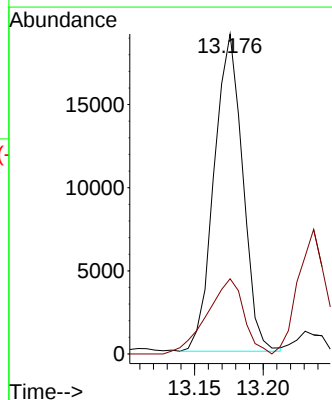
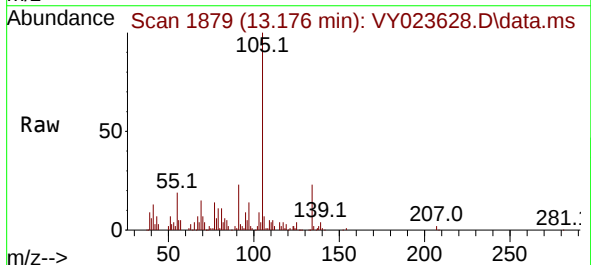
Instrument :
MSVOA_Y
ClientSampleId :

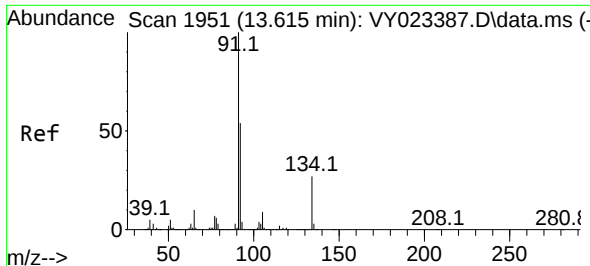
Tgt Ion:105 Resp: 254914
Ion Ratio Lower Upper
105 100
120 47.8 23.8 71.2



#85
sec-Butylbenzene
Concen: 1.012 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Tgt Ion:105 Resp: 27670
Ion Ratio Lower Upper
105 100
134 30.4 10.7 32.1

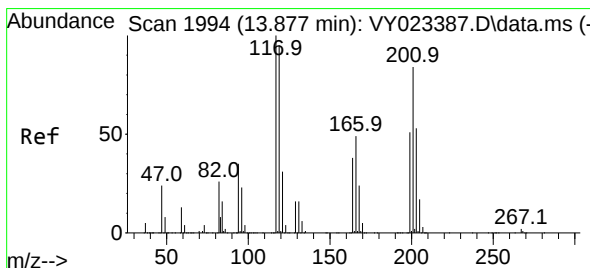
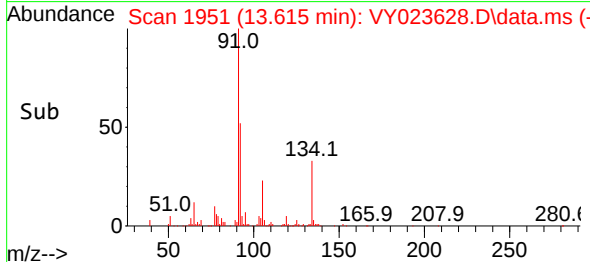
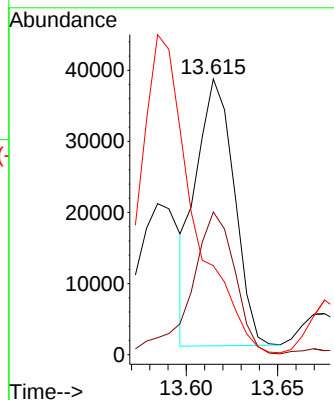
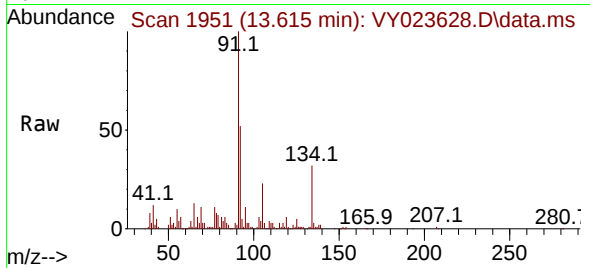




#89
n-Butylbenzene
Concen: 2.686 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

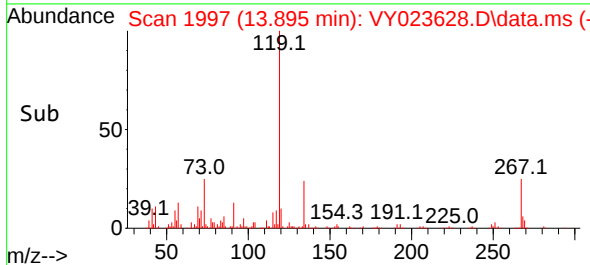
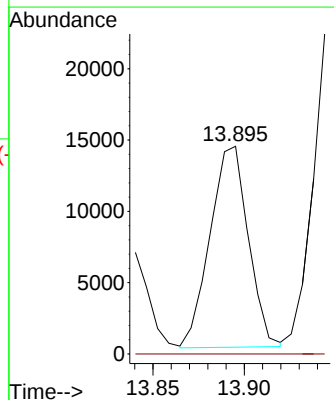
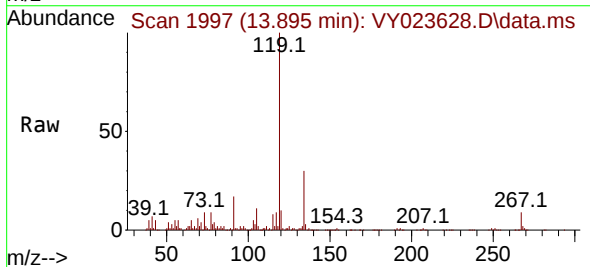
Instrument :
MSVOA_Y
ClientSampleId :

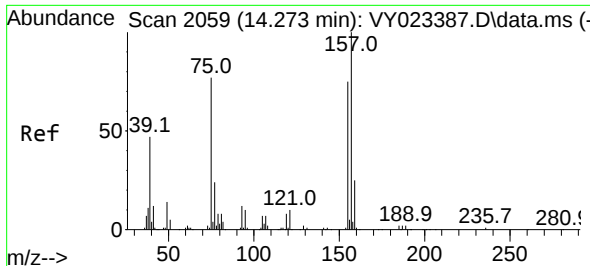
Tgt Ion: 91 Resp: 54512
Ion Ratio Lower Upper
91 100
92 60.5 27.0 80.8
134 0.0 14.1 42.2#



#90
Hexachloroethane
Concen: 4.098 ug/l
RT: 13.895 min Scan# 1997
Delta R.T. 0.018 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Tgt Ion: 117 Resp: 20528
Ion Ratio Lower Upper
117 100
201 0.0 43.8 131.4#

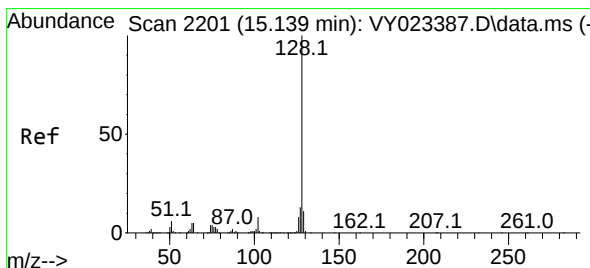
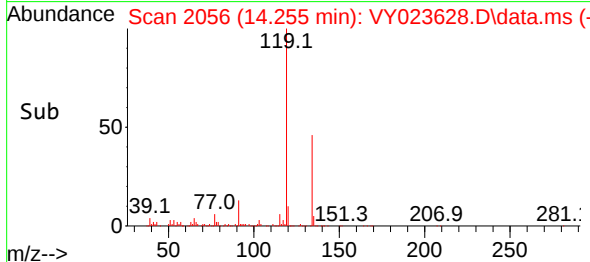
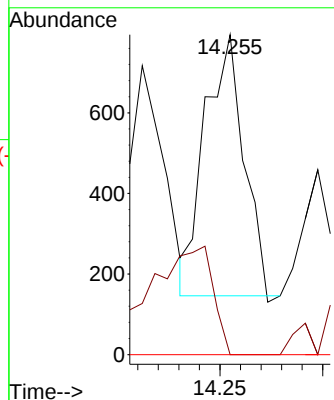
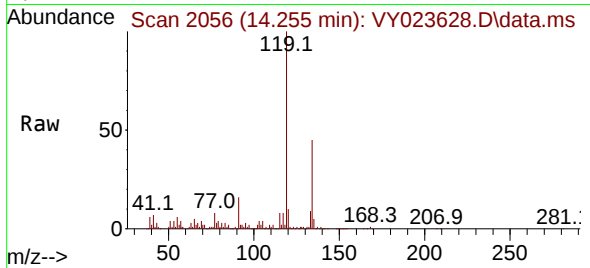




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.241 ug/l
RT: 14.255 min Scan# 2056
Delta R.T. -0.018 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 851
Ion Ratio Lower Upper
75 100
155 54.4 50.0 150.0
157 0.0 63.8 191.5#



#95
Naphthalene
Concen: 5.404 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY023628.D
Acq: 30 Oct 2025 13:26

Tgt Ion: 128 Resp: 62230
Ion Ratio Lower Upper
128 100
127 16.4 10.4 15.6#
129 13.0 8.9 13.3

