

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102225\
 Data File : VY023555.D
 Acq On : 22 Oct 2025 16:46
 Operator : SY/MD
 Sample : Q3424-01
 Misc : 4.21g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR132-DP3-20251021

Quant Time: Oct 24 02:37:12 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)

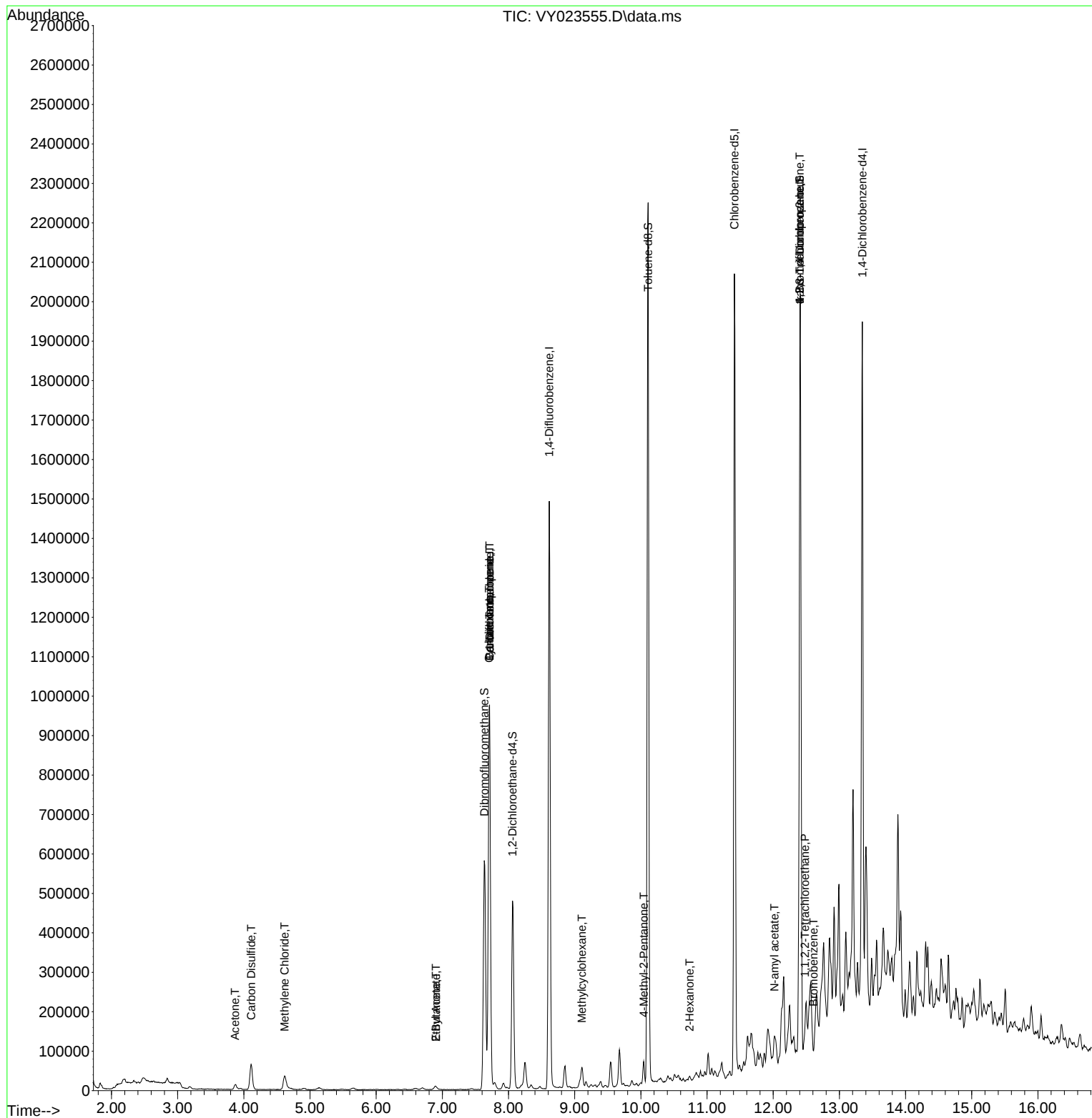
Internal Standards						
1) Pentafluorobenzene	7.713	168	829968	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1363938	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1163621	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	482166	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	369134	53.187	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.380%	
35) Dibromofluoromethane	7.634	113	422949	50.467	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.940%	
50) Toluene-d8	10.109	98	1553916	49.788	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 99.580%	
62) 4-Bromofluorobenzene	12.401	95	469265	45.541	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 91.080%	
Target Compounds						
					Qvalue	
16) Acetone	3.866	43	21104	12.773	ug/l	94
17) Carbon Disulfide	4.110	76	132696	6.262	ug/l	96
20) Methylene Chloride	4.616	84	26951	3.017	ug/l	98
25) 2-Butanone	6.902	43	6810	3.376	ug/l	95
31) Cyclohexane	7.707	56	19773	1.713	ug/l #	23
36) 1,1-Dichloropropene	7.713	75	51784	4.667	ug/l #	48
37) Ethyl Acetate	6.902	43	6810	1.549	ug/l #	72
38) Carbon Tetrachloride	7.713	117	75487	5.611	ug/l #	16
39) Methylcyclohexane	9.109	83	15649	1.083	ug/l #	72
51) 4-Methyl-2-Pentanone	10.042	43	5016	1.108	ug/l #	77
59) 2-Hexanone	10.737	43	4940	1.526	ug/l #	26
74) N-amyl acetate	12.017	43	25432	4.456	ug/l #	65
75) 1,1,2,2-Tetrachloroethane	12.481	83	11922	2.294	ug/l #	27
76) 1,2,3-Trichloropropane	12.401	75	227811	53.552	ug/l #	100
77) Bromobenzene	12.609	156	17691	2.094	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.401	75	227811	131.320	ug/l #	15

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

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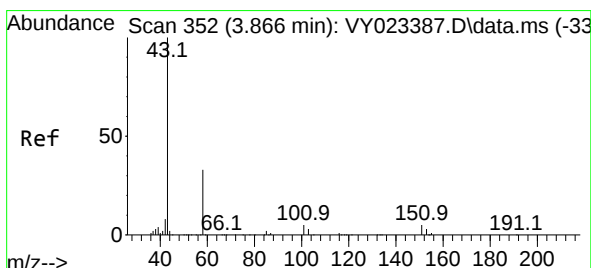
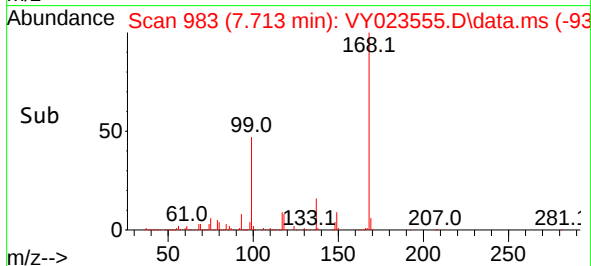
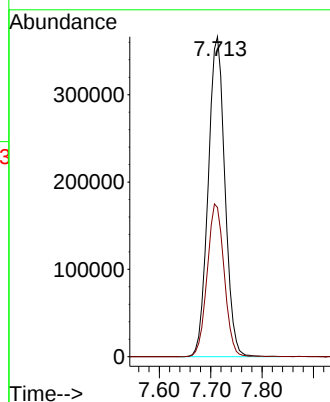
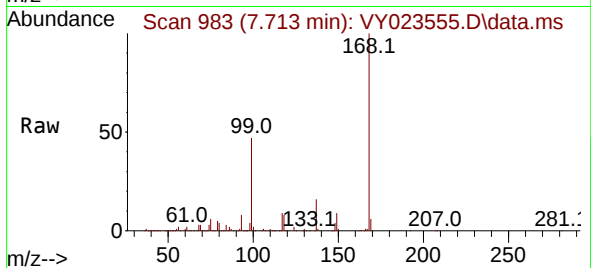




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

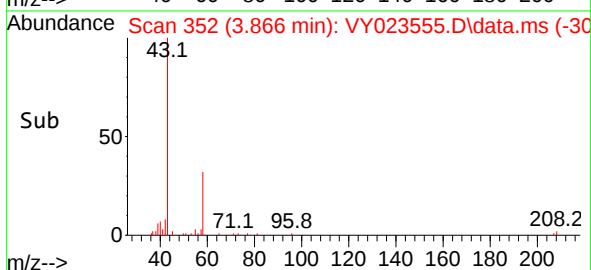
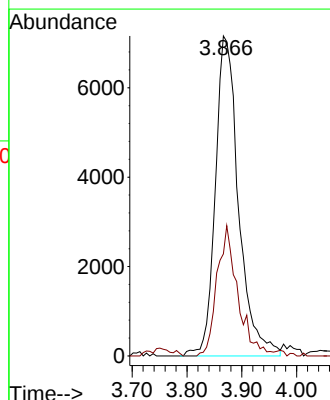
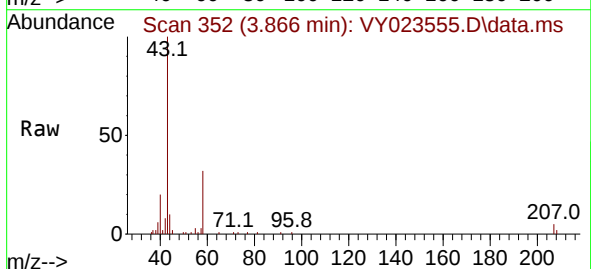
Instrument :
MSVOA_Y
ClientSampleId :
PR132-DP3-20251021

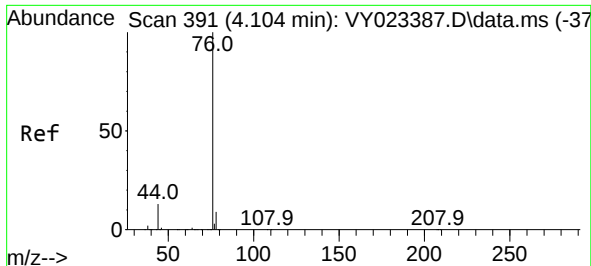
Tgt Ion:168 Resp: 829968
Ion Ratio Lower Upper
168 100
99 46.6 39.7 59.5



#16
Acetone
Concen: 12.773 ug/l
RT: 3.866 min Scan# 352
Delta R.T. -0.000 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 43 Resp: 21104
Ion Ratio Lower Upper
43 100
58 31.1 27.7 41.5

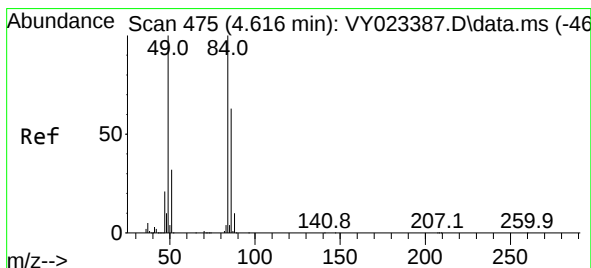
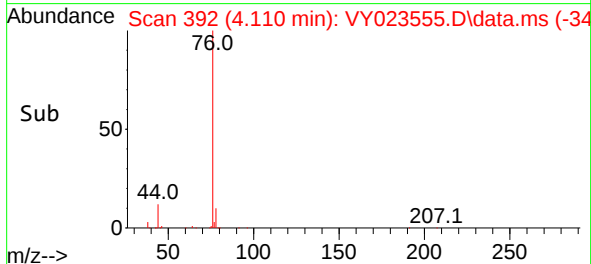
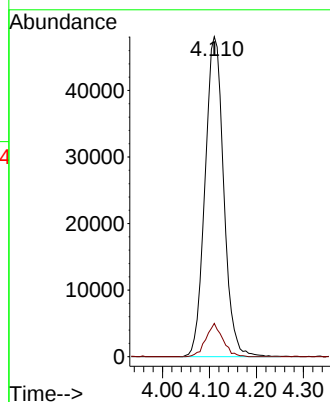
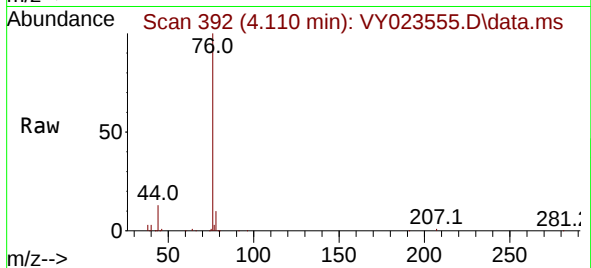




#17
Carbon Disulfide
Concen: 6.262 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

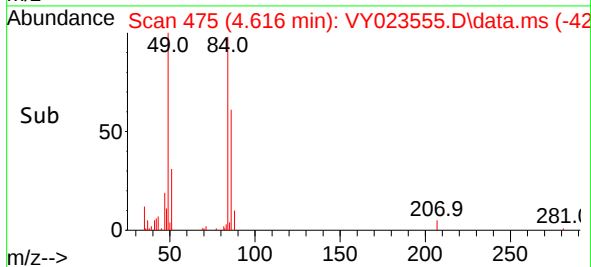
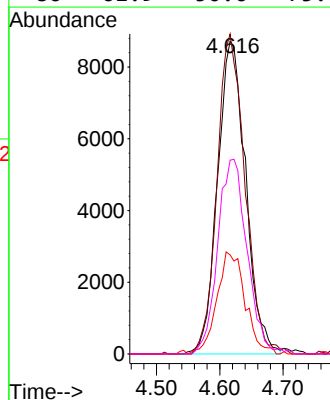
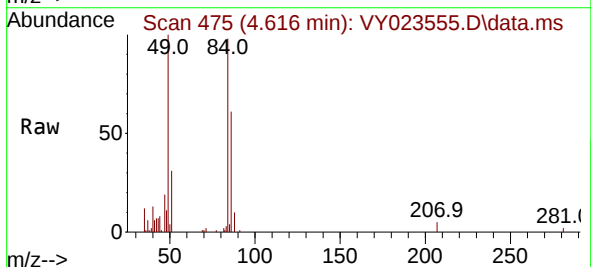
Instrument :
MSVOA_Y
ClientSampleId :
PR132-DP3-20251021

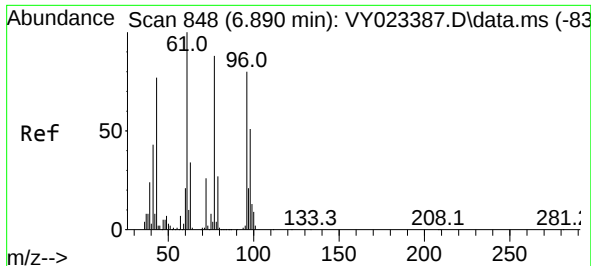
Tgt Ion: 76 Resp: 132696
Ion Ratio Lower Upper
76 100
78 10.4 7.3 10.9



#20
Methylene Chloride
Concen: 3.017 ug/l
RT: 4.616 min Scan# 475
Delta R.T. -0.000 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 84 Resp: 26951
Ion Ratio Lower Upper
84 100
49 102.3 80.2 120.4
51 31.7 25.9 38.9
86 61.9 50.6 75.8

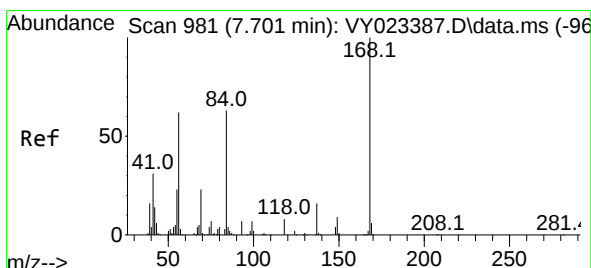
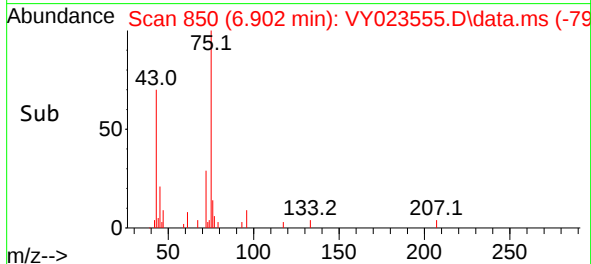
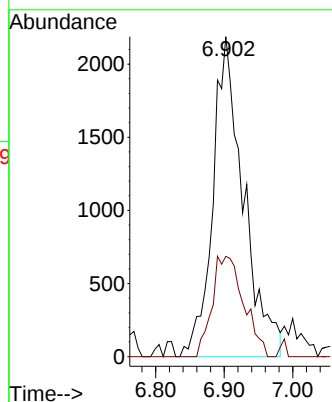
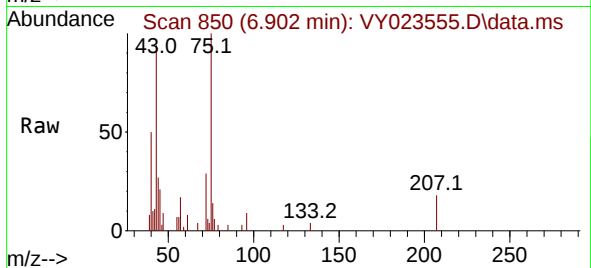




#25
2-Butanone
Concen: 3.376 ug/l
RT: 6.902 min Scan# 81
Delta R.T. 0.012 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

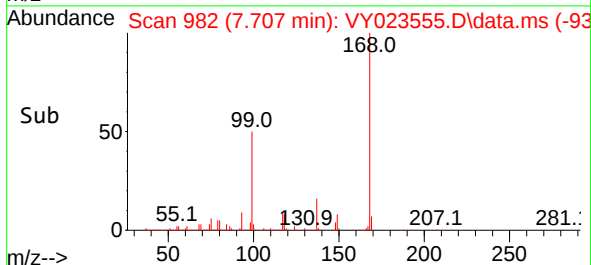
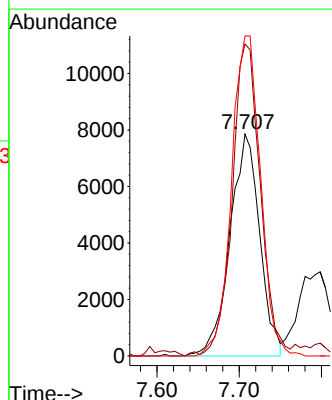
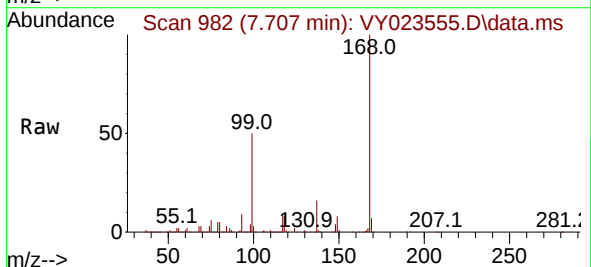
Instrument :
MSVOA_Y
ClientSampleId :
PR132-DP3-20251021

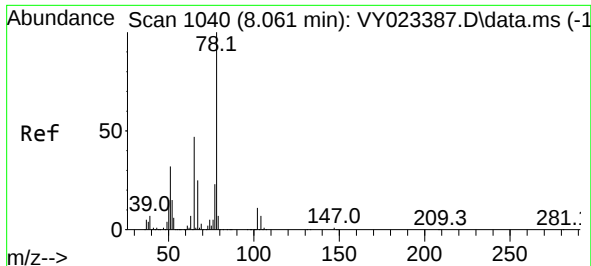
Tgt Ion: 43 Resp: 6810
Ion Ratio Lower Upper
43 100
72 31.4 27.4 41.2



#31
Cyclohexane
Concen: 1.713 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 56 Resp: 19773
Ion Ratio Lower Upper
56 100
69 139.7 30.0 45.0#
84 144.3 81.2 121.8#





#33

1,2-Dichloroethane-d4

Concen: 53.187 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY023555.D

Acq: 22 Oct 2025 16:46

Instrument :

MSVOA_Y

ClientSampleId :

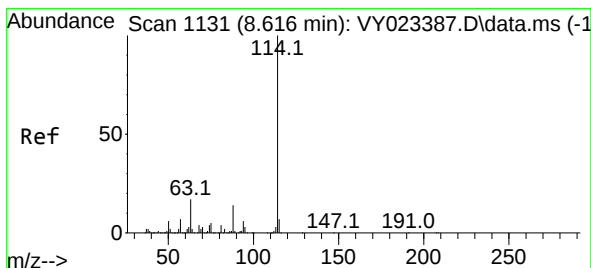
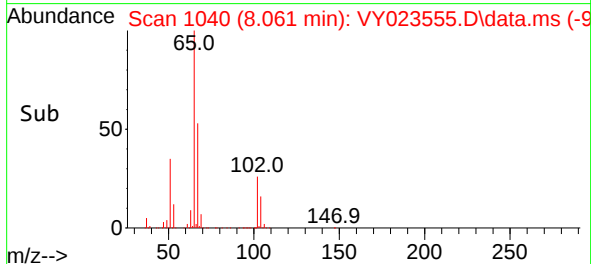
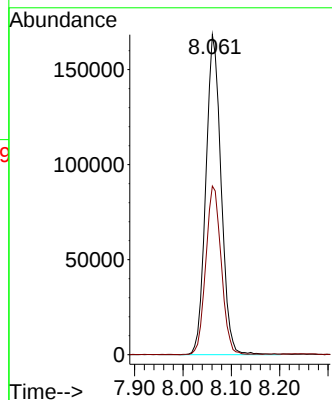
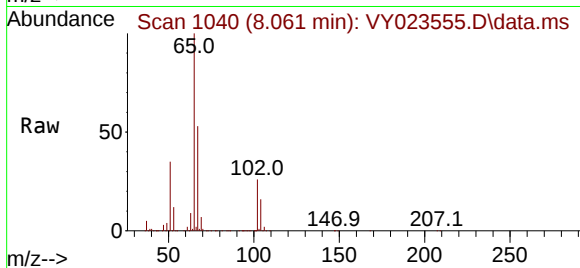
PR132-DP3-20251021

Tgt Ion: 65 Resp: 369134

Ion Ratio Lower Upper

65 100

67 53.3 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023555.D

Acq: 22 Oct 2025 16:46

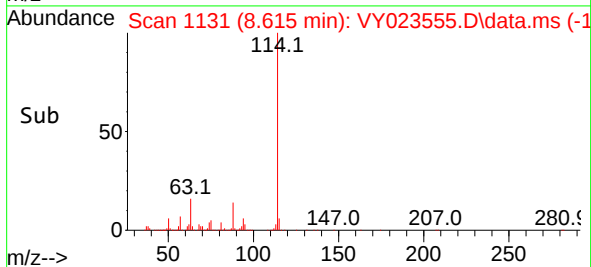
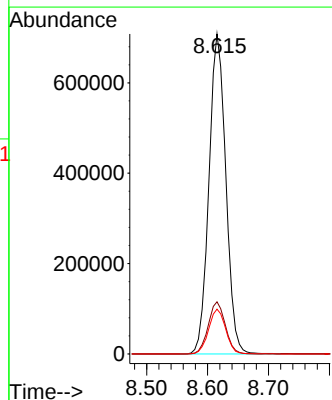
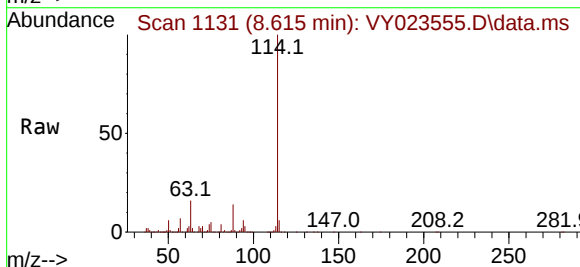
Tgt Ion:114 Resp: 1363938

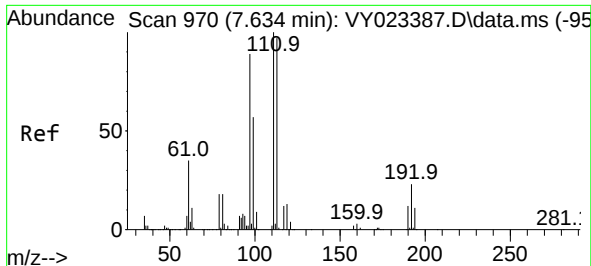
Ion Ratio Lower Upper

114 100

63 16.3 0.0 34.2

88 14.0 0.0 28.4

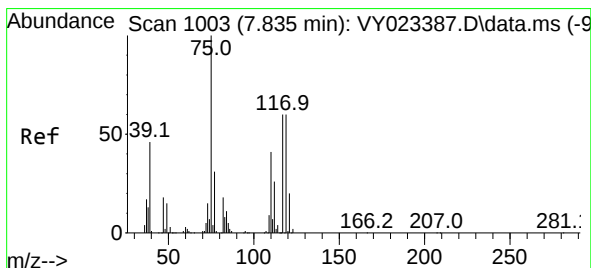
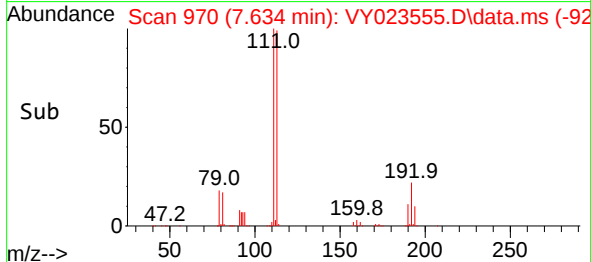
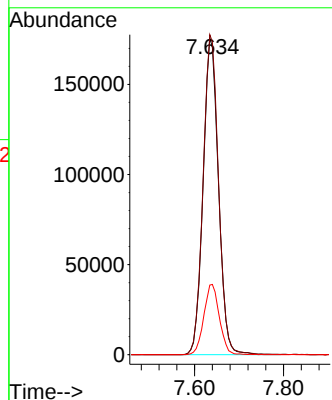
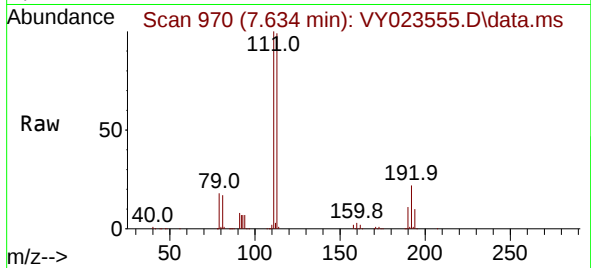




#35
Dibromofluoromethane
Concen: 50.467 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

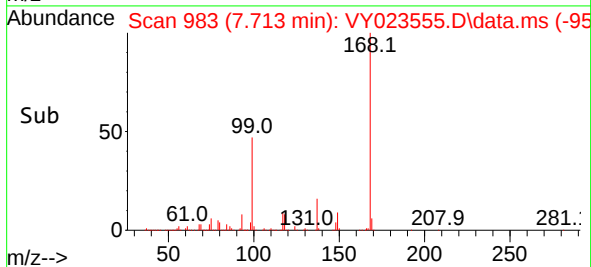
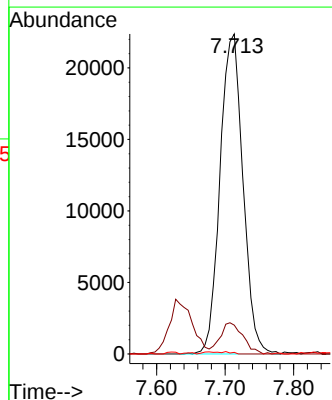
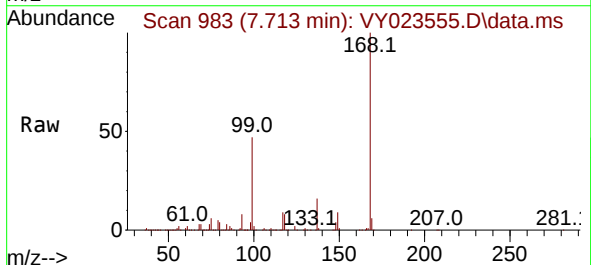
Instrument :
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PR132-DP3-20251021

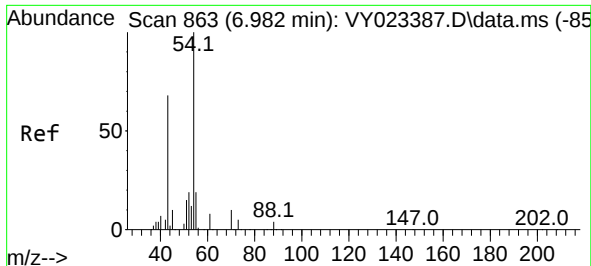
Tgt Ion:113 Resp: 422949
Ion Ratio Lower Upper
113 100
111 101.9 81.8 122.6
192 22.4 18.0 27.0



#36
1,1-Dichloropropene
Concen: 4.667 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 75 Resp: 51784
Ion Ratio Lower Upper
75 100
110 9.7 19.9 59.7#
77 0.0 25.0 37.6#





#37

Ethyl Acetate

Concen: 1.549 ug/l

RT: 6.902 min Scan# 81

Delta R.T. -0.079 min

Lab File: VY023555.D

Acq: 22 Oct 2025 16:46

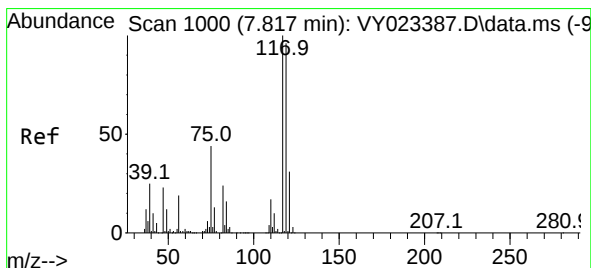
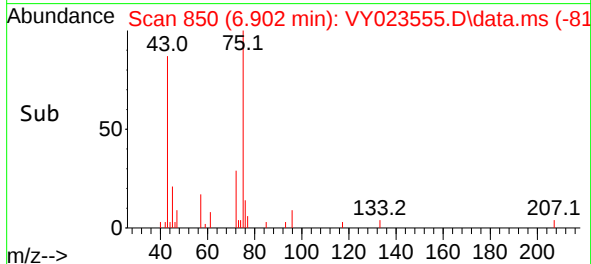
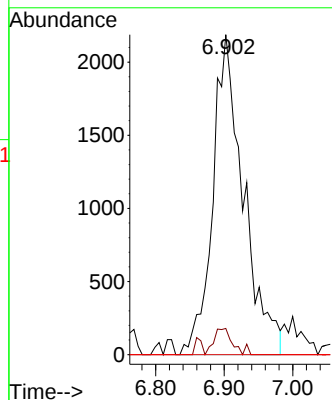
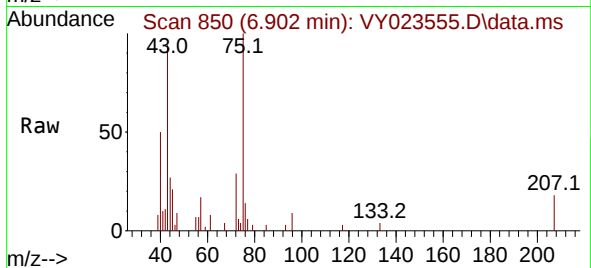
Instrument :

MSVOA_Y

ClientSampleId :

PR132-DP3-20251021

Tgt Ion:	43	Resp:	6810
Ion	Ratio	Lower	Upper
43	100		
61	4.6	11.8	17.8#
70	0.0	10.5	15.7#



#38

Carbon Tetrachloride

Concen: 5.611 ug/l

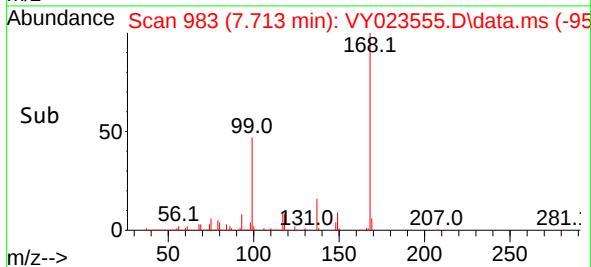
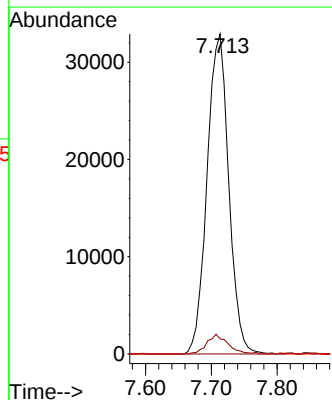
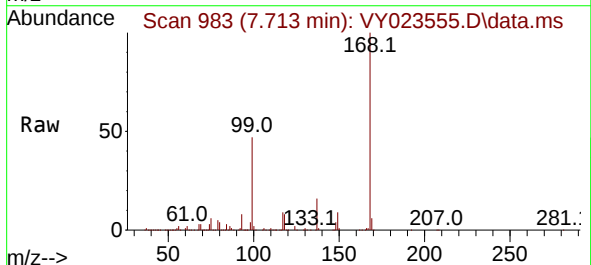
RT: 7.713 min Scan# 983

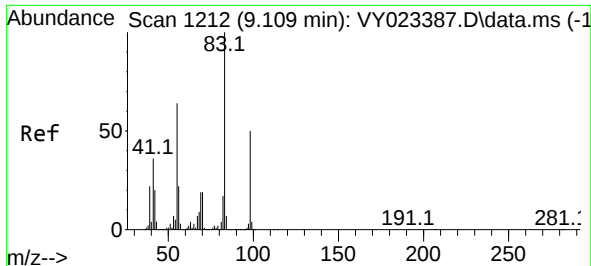
Delta R.T. -0.104 min

Lab File: VY023555.D

Acq: 22 Oct 2025 16:46

Tgt Ion:	117	Resp:	75487
Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.8	115.2#
121	0.0	24.5	36.7#

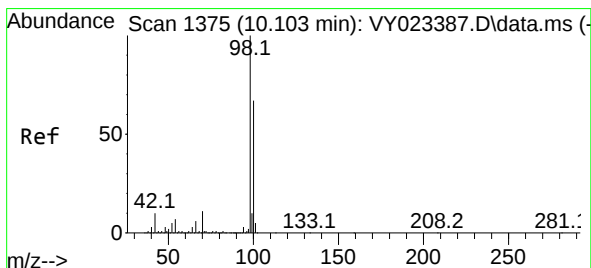
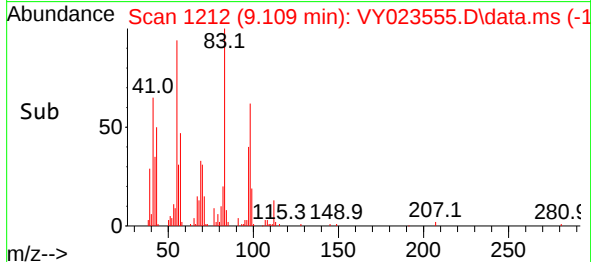
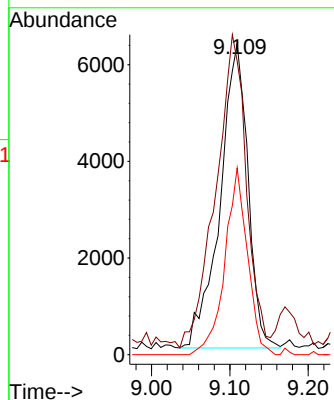
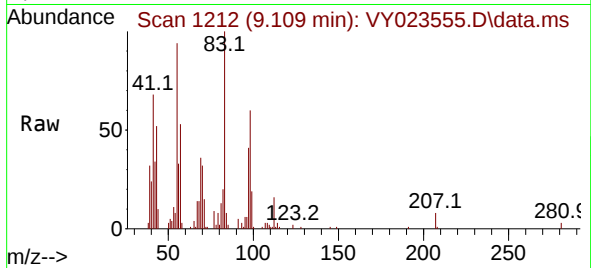




#39
Methylcyclohexane
Concen: 1.083 ug/l
RT: 9.109 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

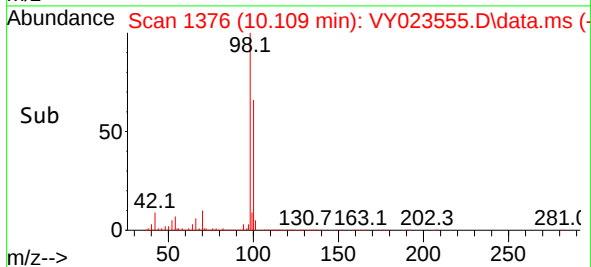
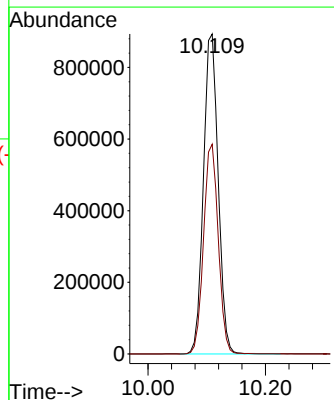
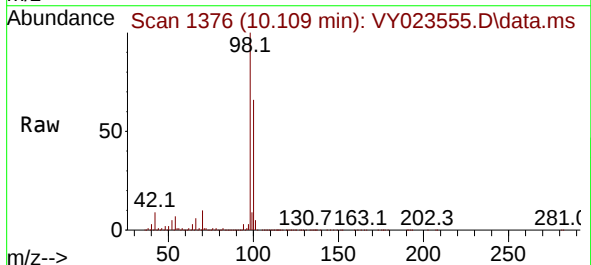
Instrument :
MSVOA_Y
ClientSampleId :
PR132-DP3-20251021

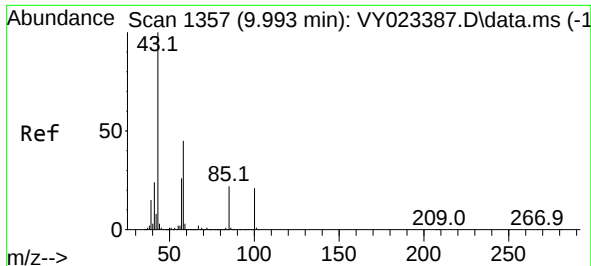
Tgt Ion: 83 Resp: 15649
Ion Ratio Lower Upper
83 100
55 94.2 51.4 77.2#
98 61.3 40.4 60.6#



#50
Toluene-d8
Concen: 49.788 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 98 Resp: 1553916
Ion Ratio Lower Upper
98 100
100 65.5 53.0 79.4

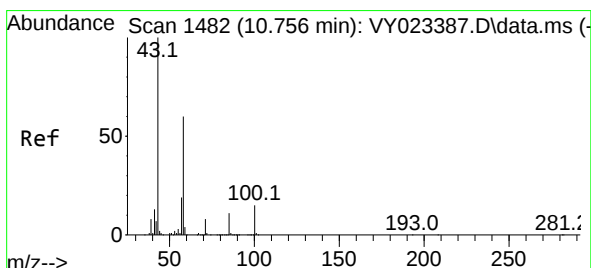
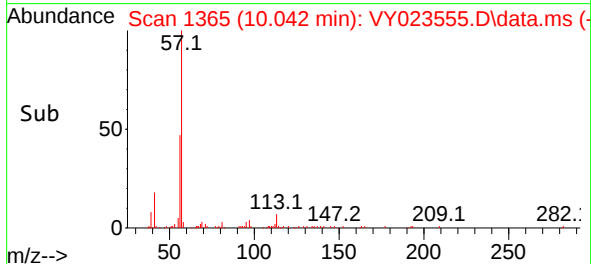
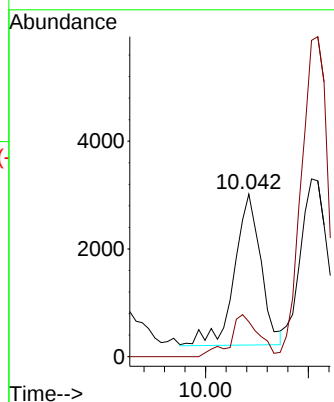
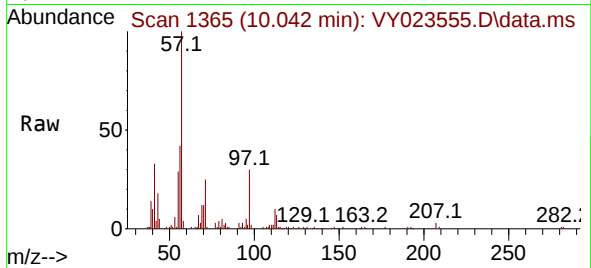




#51
4-Methyl-2-Pentanone
Concen: 1.108 ug/l
RT: 10.042 min Scan# 11
Delta R.T. 0.049 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

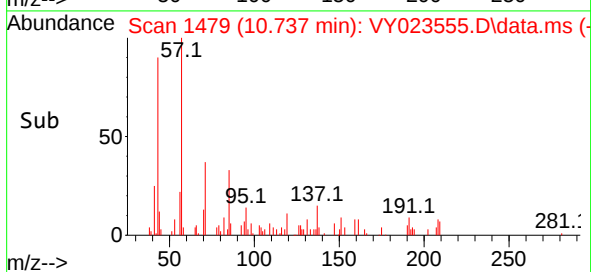
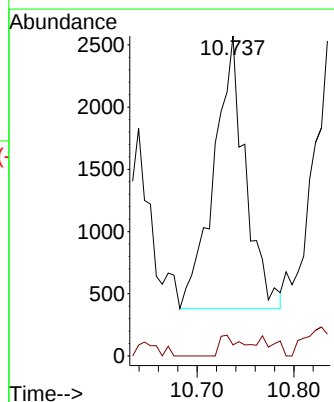
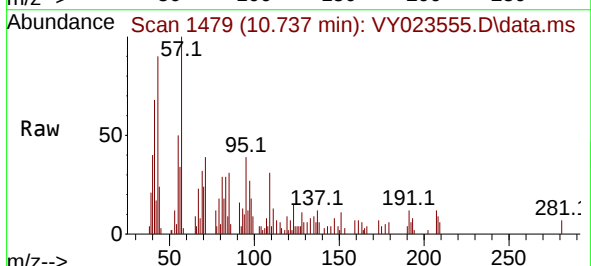
Instrument :
MSVOA_Y
ClientSampleId :
PR132-DP3-20251021

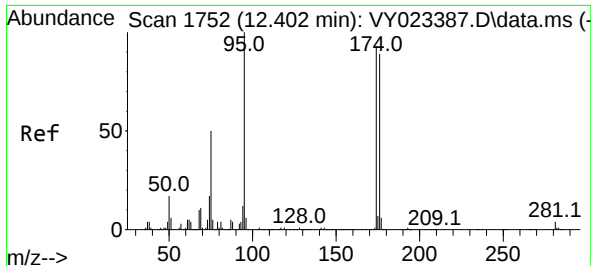
Tgt Ion: 43 Resp: 5016
Ion Ratio Lower Upper
43 100
58 29.5 35.3 52.9#



#59
2-Hexanone
Concen: 1.526 ug/l
RT: 10.737 min Scan# 1479
Delta R.T. -0.018 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 43 Resp: 4940
Ion Ratio Lower Upper
43 100
58 4.6 30.5 91.5#

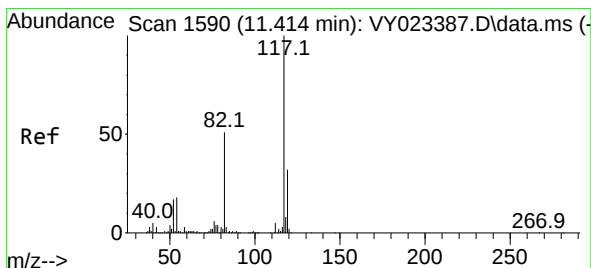
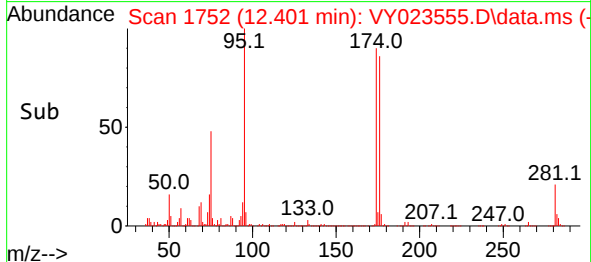
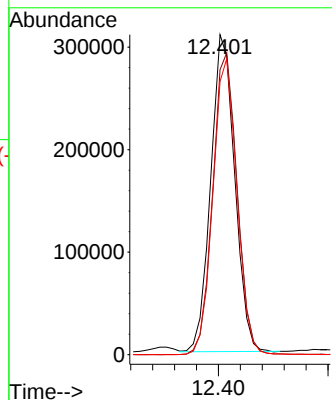
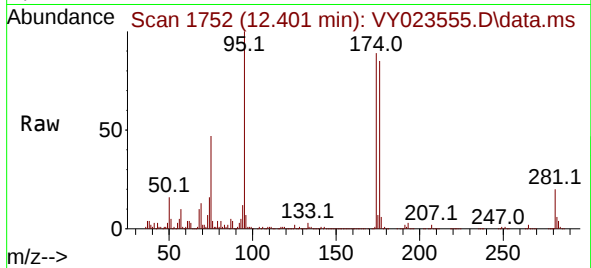




#62
4-Bromofluorobenzene
Concen: 45.541 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

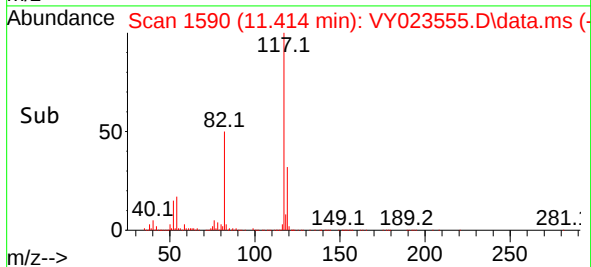
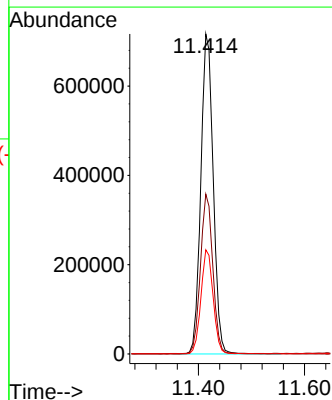
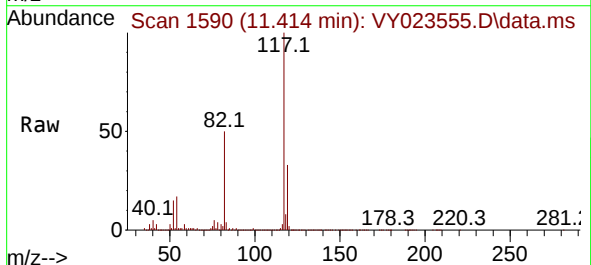
Instrument :
MSVOA_Y
ClientSampleId :
PR132-DP3-20251021

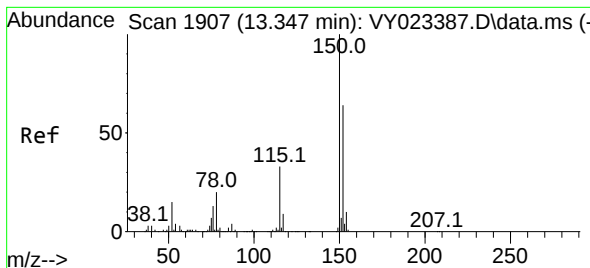
Tgt Ion: 95 Resp: 469265
Ion Ratio Lower Upper
95 100
174 96.9 0.0 192.8
176 94.1 0.0 187.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 117 Resp: 1163621
Ion Ratio Lower Upper
117 100
82 49.8 41.0 61.4
119 32.5 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023555.D

Acq: 22 Oct 2025 16:46

Instrument :

MSVOA_Y

ClientSampleId :

PR132-DP3-20251021

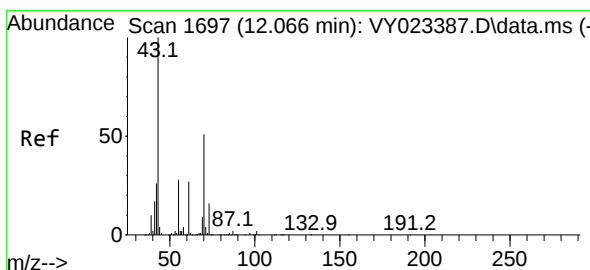
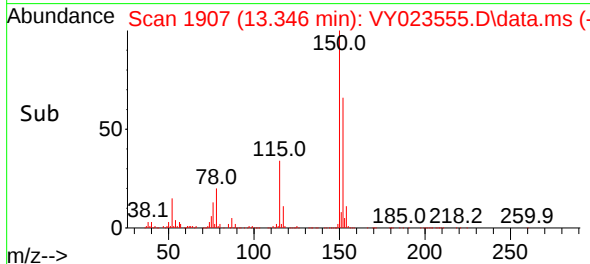
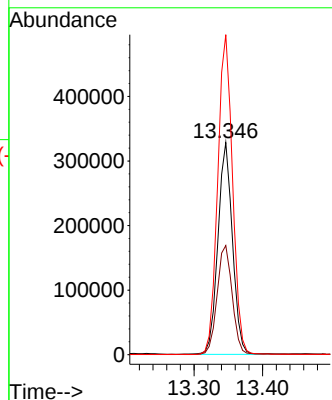
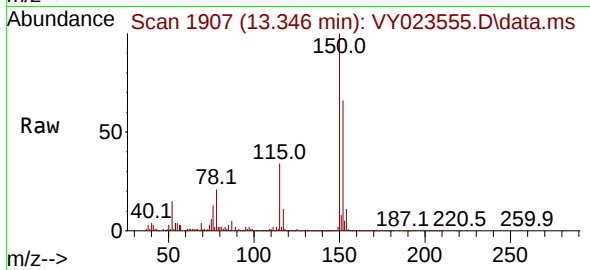
Tgt Ion:152 Resp: 482166

Ion Ratio Lower Upper

152 100

115 53.0 27.1 81.2

150 153.7 0.0 347.4



#74

N-ethyl acetate

Concen: 4.456 ug/l

RT: 12.017 min Scan# 1689

Delta R.T. -0.049 min

Lab File: VY023555.D

Acq: 22 Oct 2025 16:46

Tgt Ion: 43 Resp: 25432

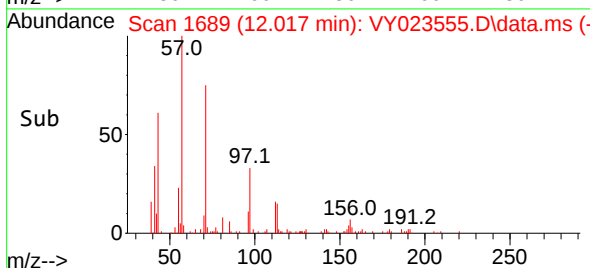
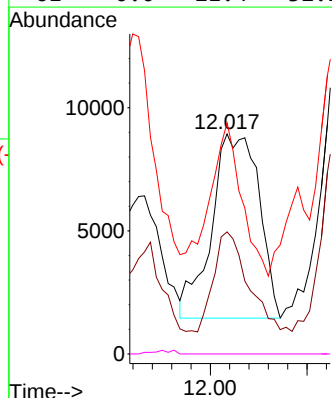
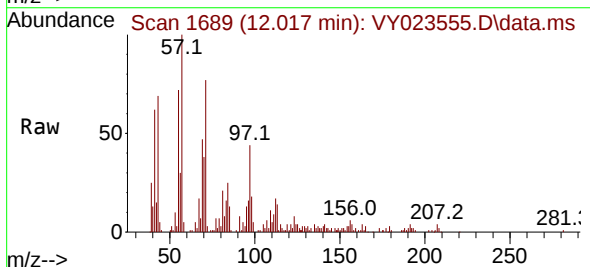
Ion Ratio Lower Upper

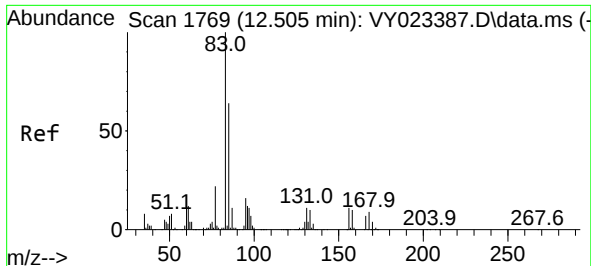
43 100

70 38.8 41.1 61.7#

55 54.9 23.0 34.6#

61 0.0 21.4 32.2#

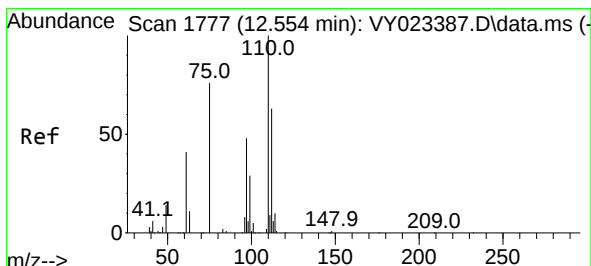
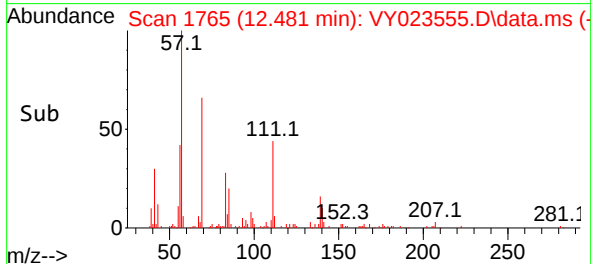
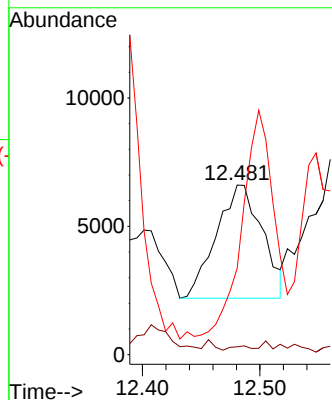
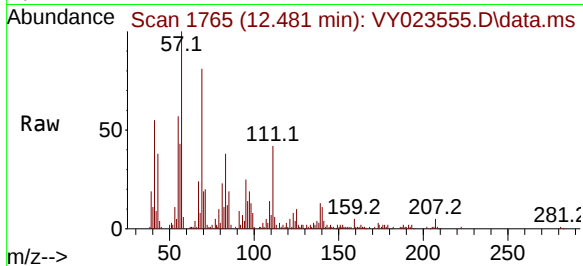




#75
1,1,2,2-Tetrachloroethane
Concen: 2.294 ug/l
RT: 12.481 min Scan# 11
Delta R.T. -0.025 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

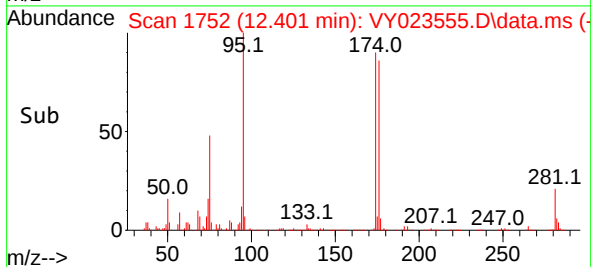
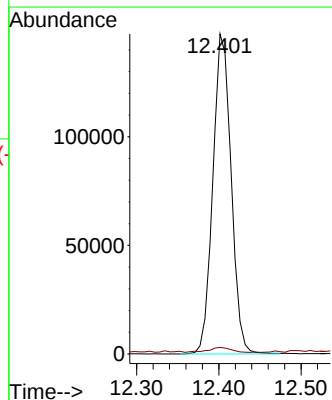
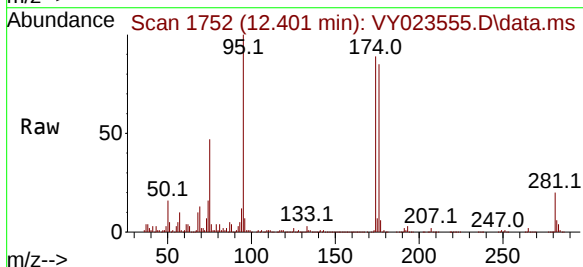
Instrument :
MSVOA_Y
ClientSampleId :
PR132-DP3-20251021

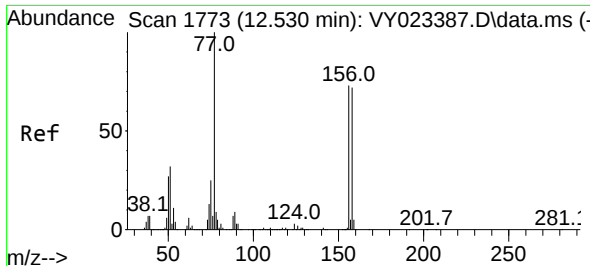
Tgt Ion: 83 Resp: 11922
Ion Ratio Lower Upper
83 100
131 1.5 5.9 17.6#
85 0.0 31.8 95.3#



#76
1,2,3-Trichloropropane
Concen: 53.552 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.153 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 75 Resp: 227811
Ion Ratio Lower Upper
75 100
77 1.9 0.0 0.0#

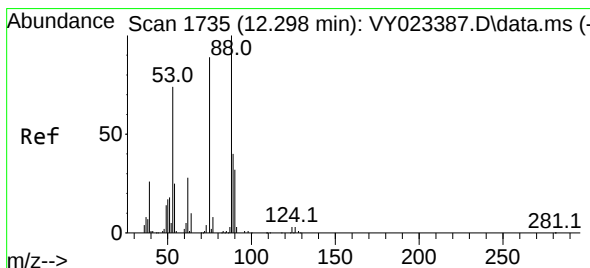
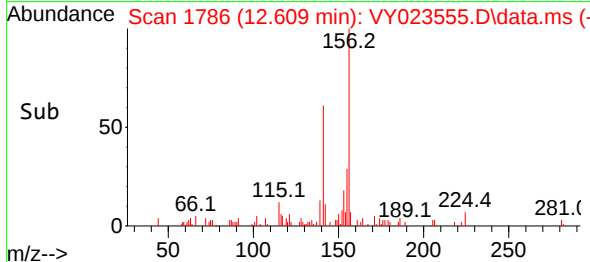
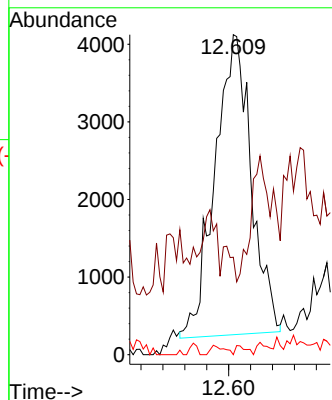
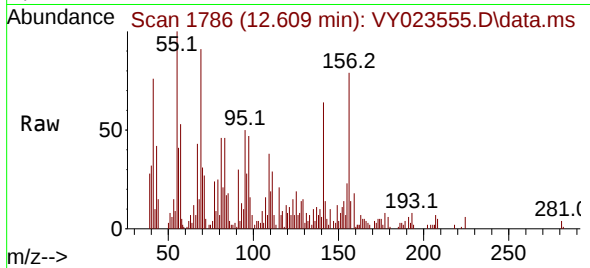




#77
Bromobenzene
Concen: 2.094 ug/l
RT: 12.609 min Scan# 1752
Delta R.T. 0.079 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Instrument :
MSVOA_Y
ClientSampleId :
PR132-DP3-20251021

Tgt Ion:156 Resp: 17691
Ion Ratio Lower Upper
156 100
77 0.0 76.8 230.5#
158 0.9 49.0 147.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 131.320 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.103 min
Lab File: VY023555.D
Acq: 22 Oct 2025 16:46

Tgt Ion: 75 Resp: 227811
Ion Ratio Lower Upper
75 100
53 0.0 68.6 102.8#
89 0.8 39.0 58.4#

