

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102025\
 Data File : VY023514.D
 Acq On : 20 Oct 2025 17:21
 Operator : SY/MD
 Sample : Q3381-07
 Misc : 4.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 21 04:01:53 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)

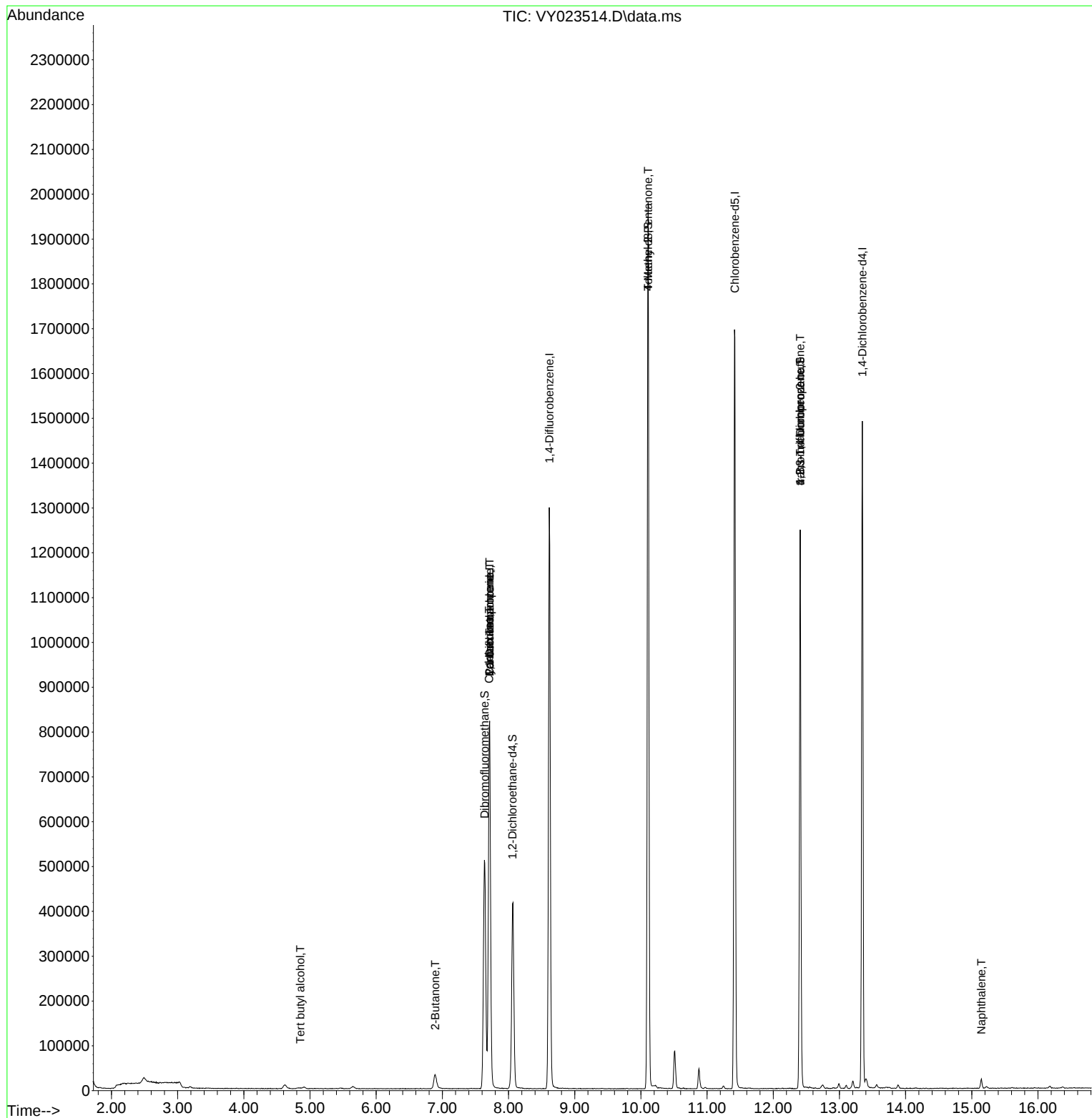
Internal Standards						
1) Pentafluorobenzene	7.713	168	678446	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1160460	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	974959	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	389973	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	319141	56.253	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 112.500%			
35) Dibromofluoromethane	7.640	113	372455	52.234	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 104.460%			
50) Toluene-d8	10.109	98	1315996	49.558	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.120%			
62) 4-Bromofluorobenzene	12.407	95	353830	40.359	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 80.720%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	1006	2.384	ug/l #	72
25) 2-Butanone	6.890	43	1827	1.108	ug/l #	69
31) Cyclohexane	7.707	56	11844	1.255	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	46174	4.891	ug/l #	48
38) Carbon Tetrachloride	7.713	117	62783	5.485	ug/l #	16
51) 4-Methyl-2-Pentanone	10.109	43	4821	1.251	ug/l #	1
76) 1,2,3-Trichloropropane	12.407	75	174468	50.709	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	174468	124.347	ug/l #	15
95) Naphthalene	15.145	128	17297	1.494	ug/l	98

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

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QLast Update : Wed Oct 08 05:12:50 2025
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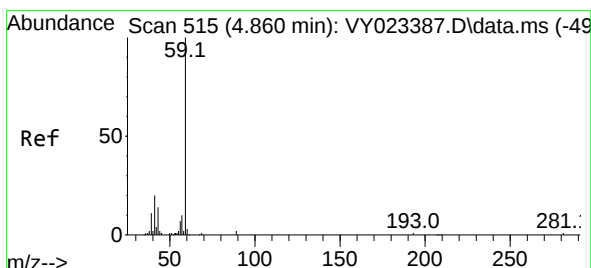
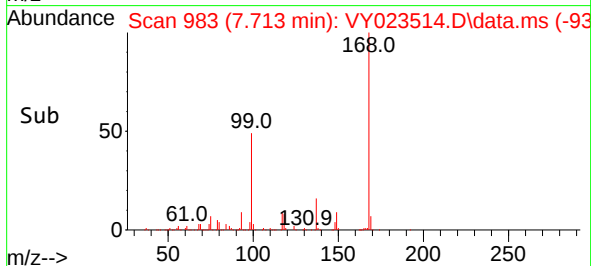
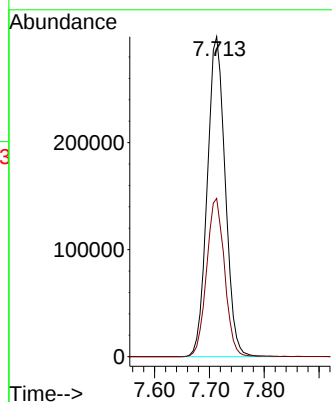
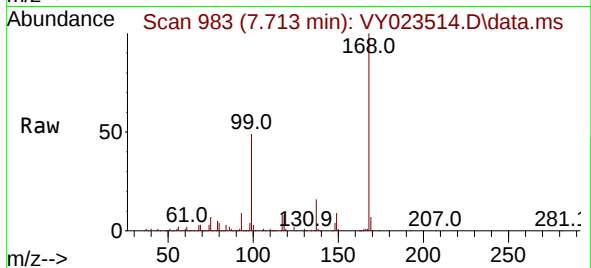




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

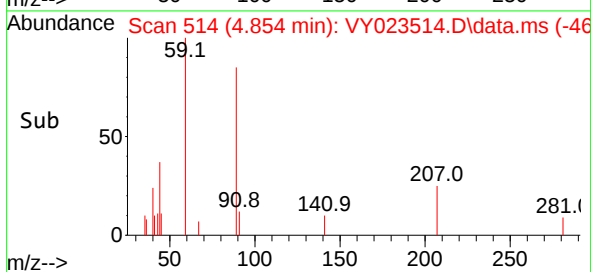
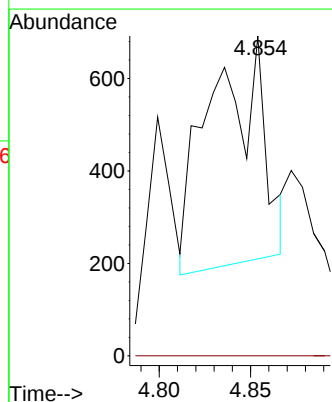
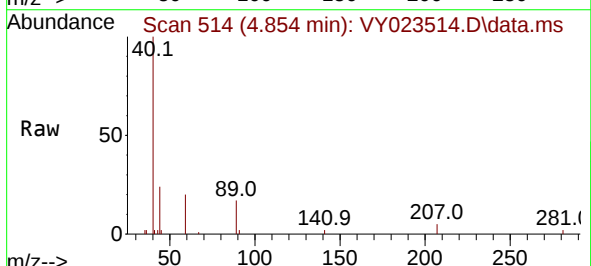
Instrument :
MSVOA_Y
ClientSampleId :

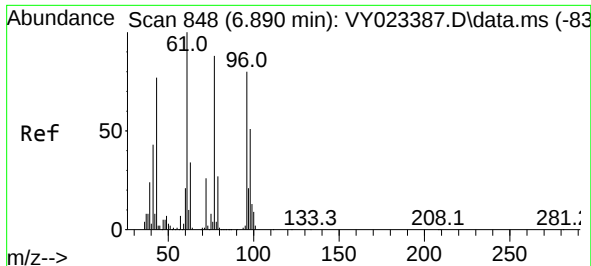
Tgt Ion:168 Resp: 678446
Ion Ratio Lower Upper
168 100
99 49.5 39.7 59.5



#11
Tert butyl alcohol
Concen: 2.384 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

Tgt Ion: 59 Resp: 1006
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

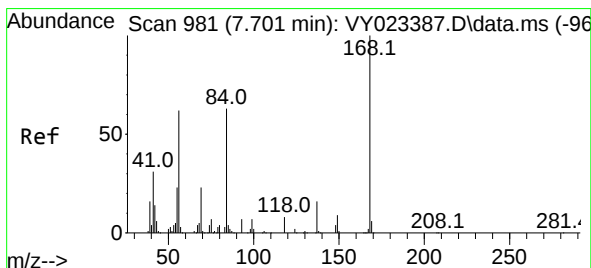
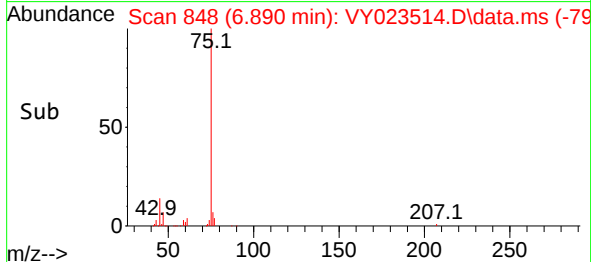
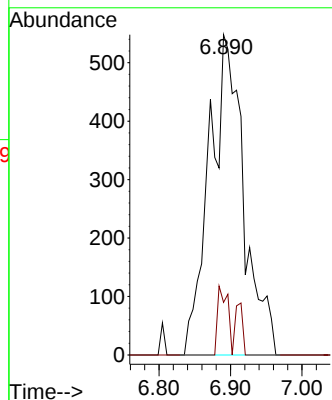
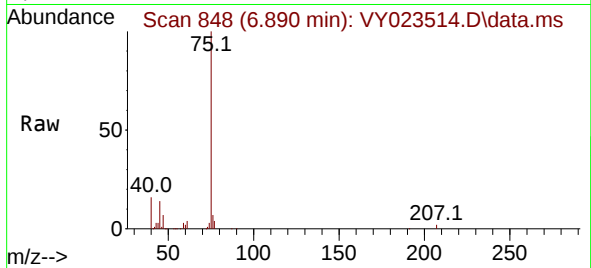




#25
2-Butanone
Concen: 1.108 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

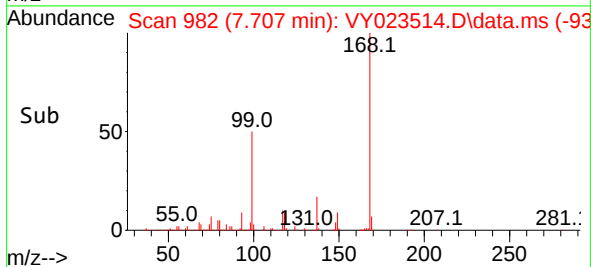
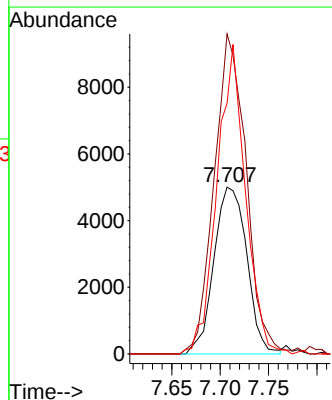
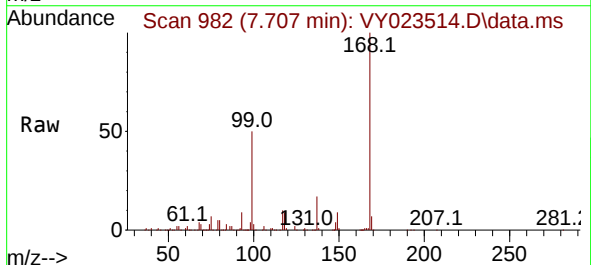
Instrument :
MSVOA_Y
ClientSampleId :

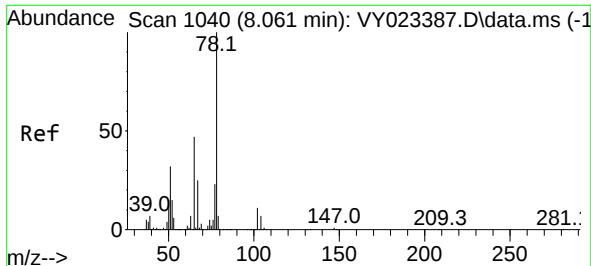
Tgt Ion: 43 Resp: 1827
Ion Ratio Lower Upper
43 100
72 16.4 27.4 41.2#



#31
Cyclohexane
Concen: 1.255 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

Tgt Ion: 56 Resp: 11844
Ion Ratio Lower Upper
56 100
69 191.8 30.0 45.0#
84 150.2 81.2 121.8#





#33

1,2-Dichloroethane-d4

Concen: 56.253 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY023514.D

Acq: 20 Oct 2025 17:21

Instrument :

MSVOA_Y

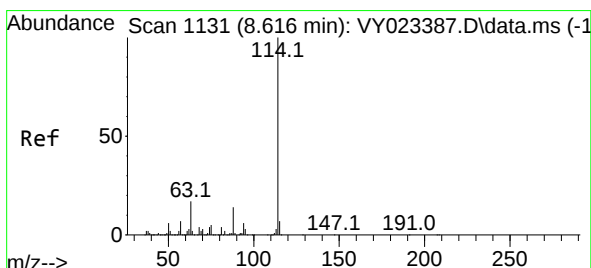
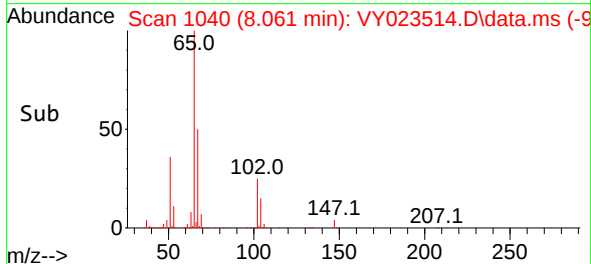
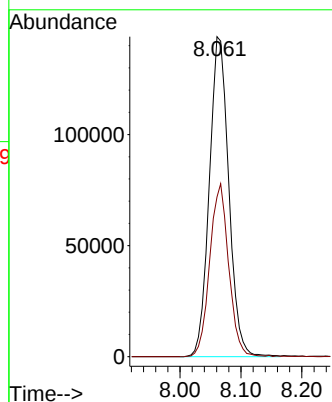
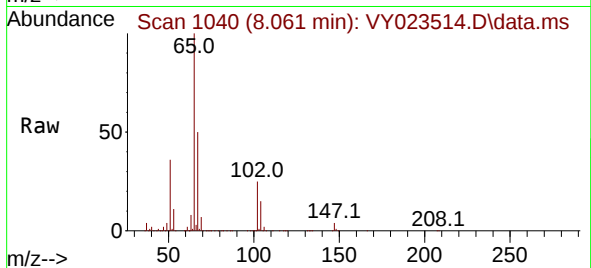
ClientSampleId :

Tgt Ion: 65 Resp: 319141

Ion Ratio Lower Upper

65 100

67 52.6 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: VY023514.D

Acq: 20 Oct 2025 17:21

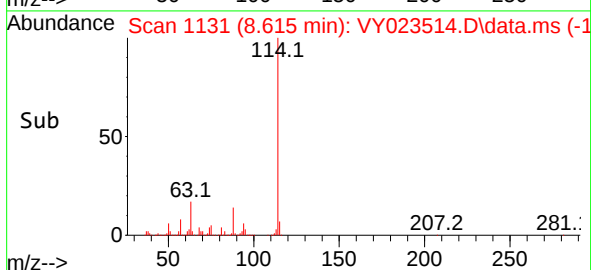
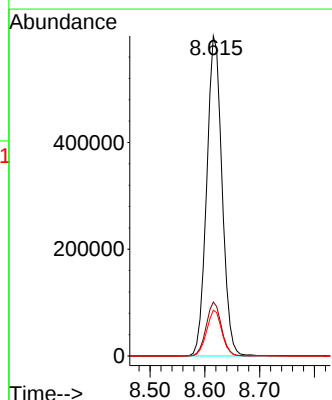
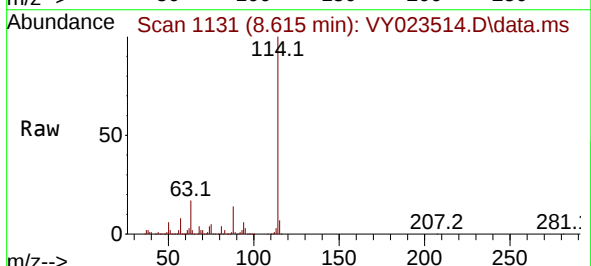
Tgt Ion:114 Resp: 1160460

Ion Ratio Lower Upper

114 100

63 16.8 0.0 34.2

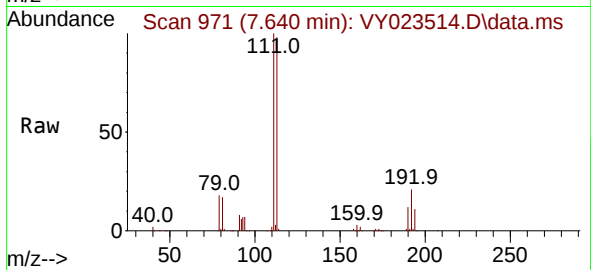
88 14.3 0.0 28.4



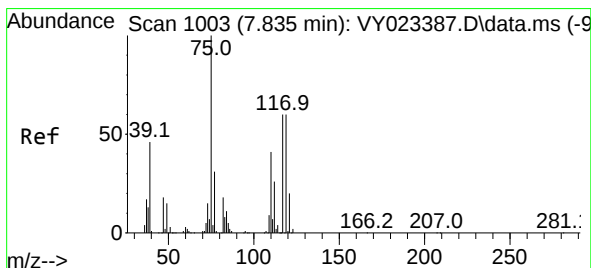
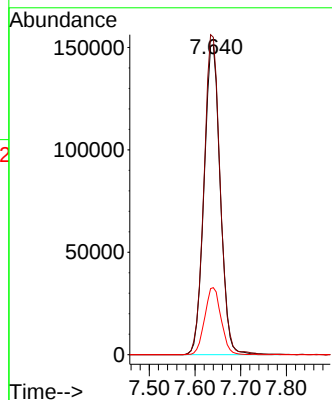
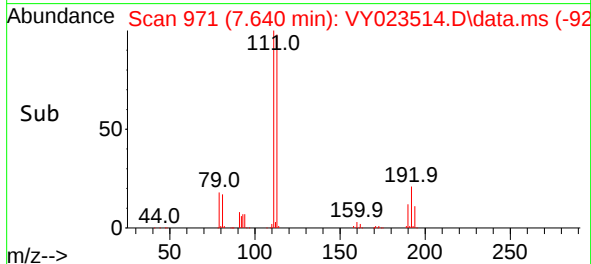


#35
Dibromofluoromethane
Concen: 52.234 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

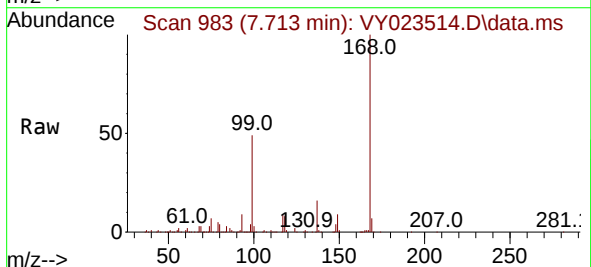
Instrument :
MSVOA_Y
ClientSampleId :



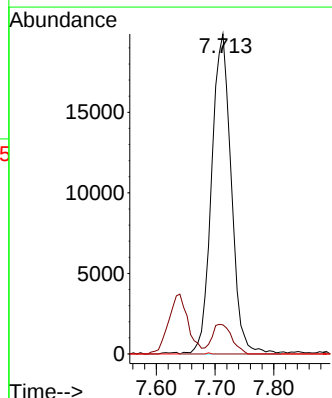
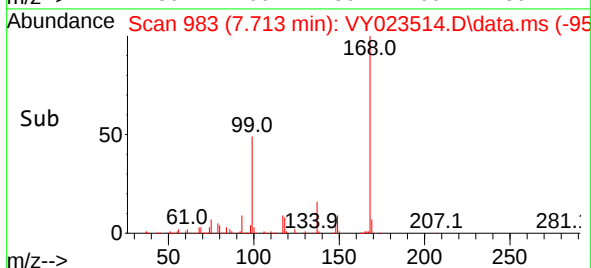
Tgt Ion:113 Resp: 372455
Ion Ratio Lower Upper
113 100
111 102.7 81.8 122.6
192 21.8 18.0 27.0

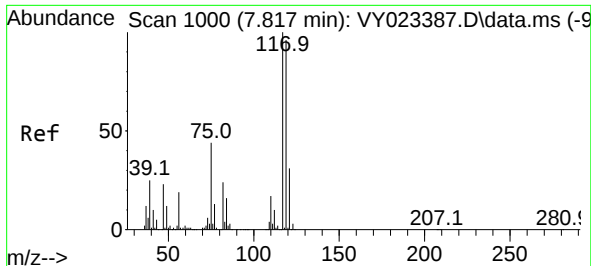


#36
1,1-Dichloropropene
Concen: 4.891 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.122 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21



Tgt Ion: 75 Resp: 46174
Ion Ratio Lower Upper
75 100
110 9.6 19.9 59.7#
77 0.0 25.0 37.6#

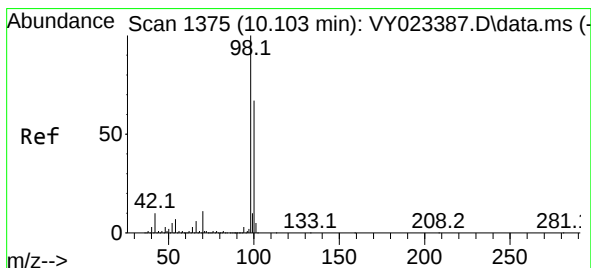
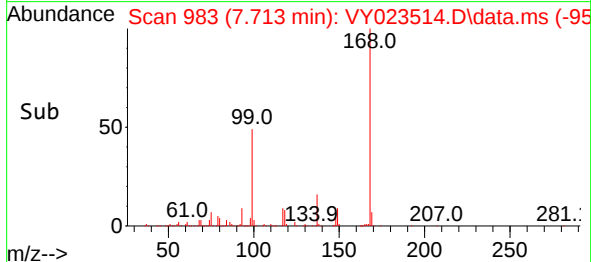
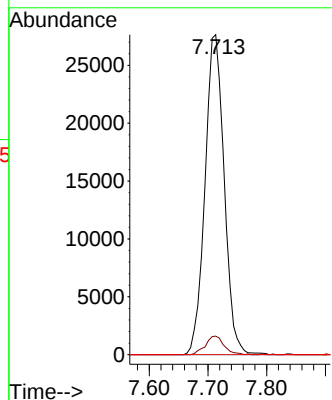
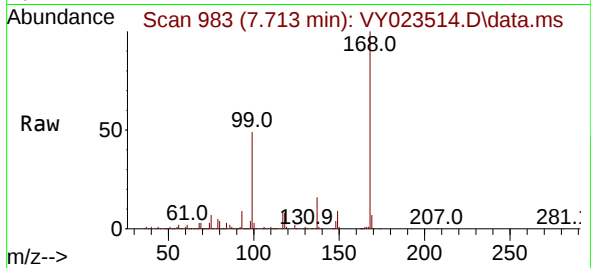




#38
Carbon Tetrachloride
Concen: 5.485 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

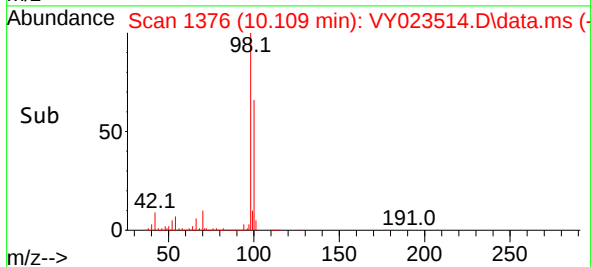
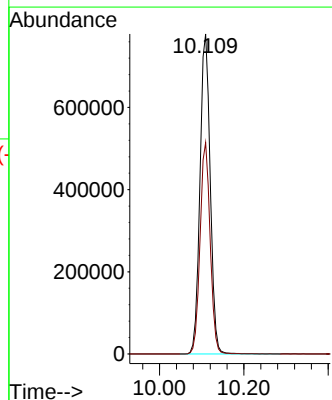
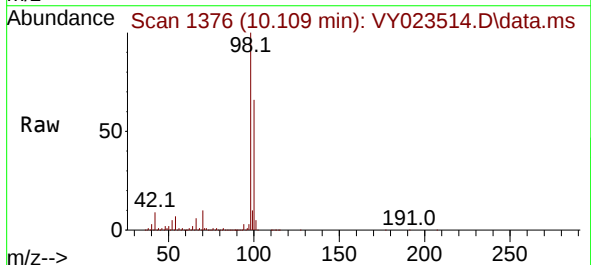
Instrument :
MSVOA_Y
ClientSampleId :

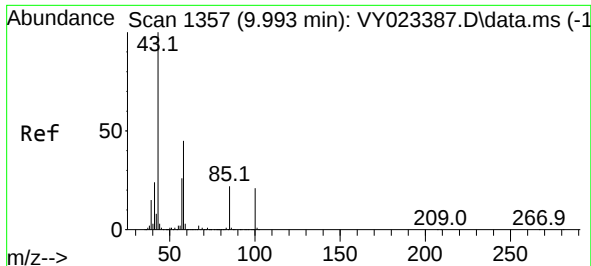
Tgt Ion:117 Resp: 62783
Ion Ratio Lower Upper
117 100
119 5.8 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 49.558 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

Tgt Ion: 98 Resp: 1315996
Ion Ratio Lower Upper
98 100
100 65.1 53.0 79.4

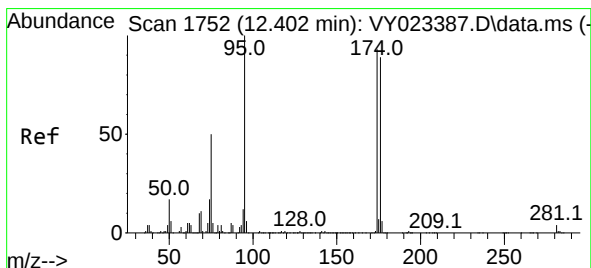
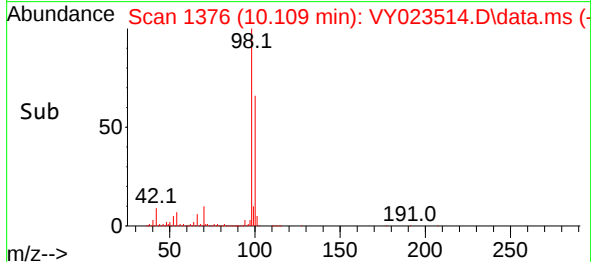
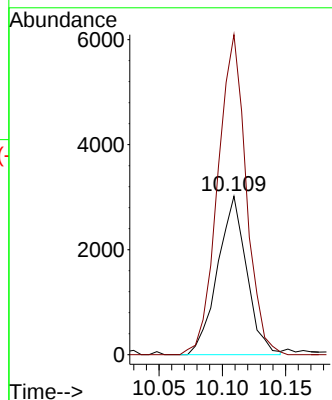
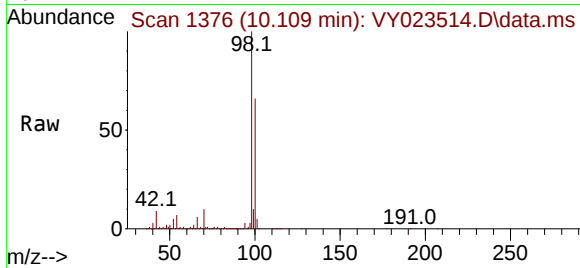




#51
4-Methyl-2-Pentanone
Concen: 1.251 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.116 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

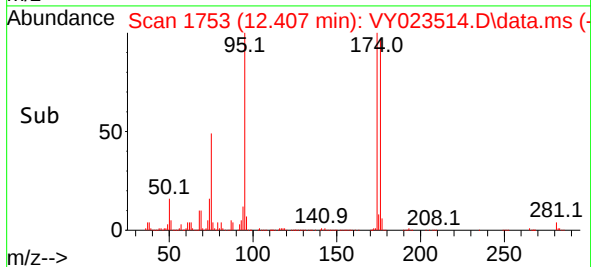
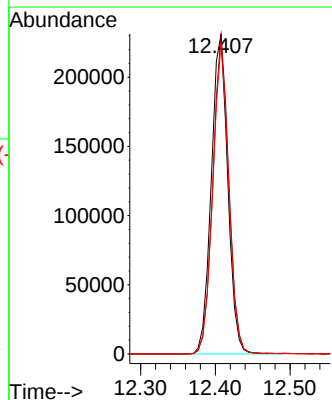
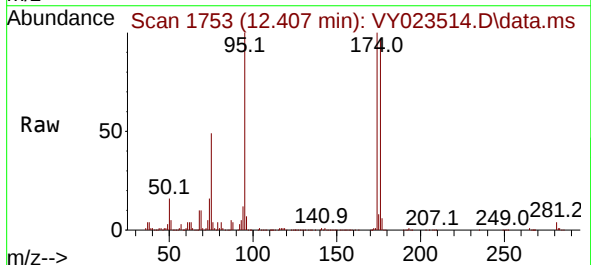
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ClientSampleId :

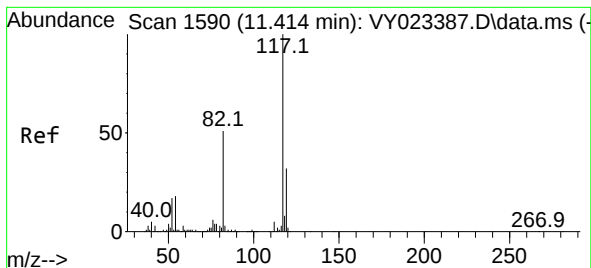
Tgt Ion: 43 Resp: 4821
Ion Ratio Lower Upper
43 100
58 197.8 35.3 52.9#



#62
4-Bromofluorobenzene
Concen: 40.359 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

Tgt Ion: 95 Resp: 353830
Ion Ratio Lower Upper
95 100
174 96.9 0.0 192.8
176 93.6 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023514.D

Acq: 20 Oct 2025 17:21

Instrument :

MSVOA_Y

ClientSampleId :

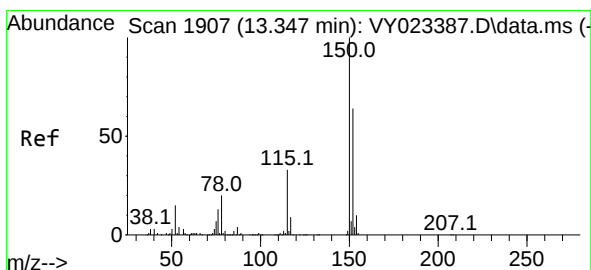
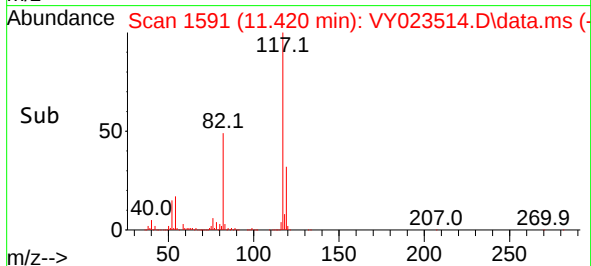
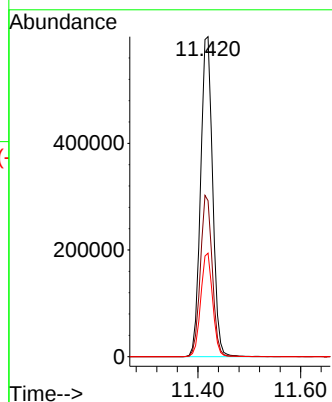
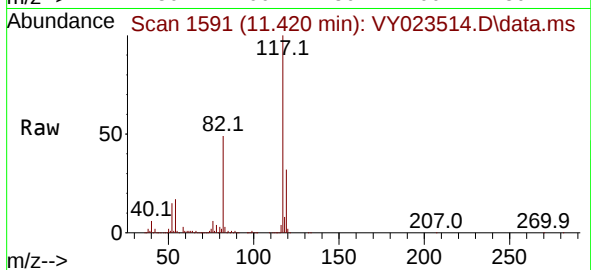
Tgt Ion:117 Resp: 974959

Ion Ratio Lower Upper

117 100

82 48.7 41.0 61.4

119 32.4 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: VY023514.D

Acq: 20 Oct 2025 17:21

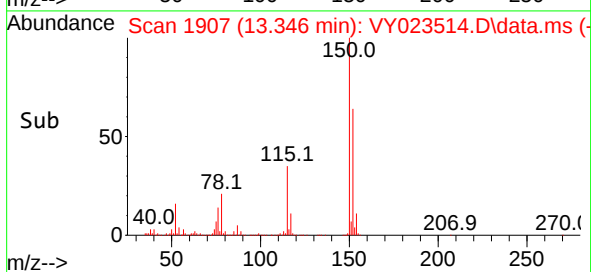
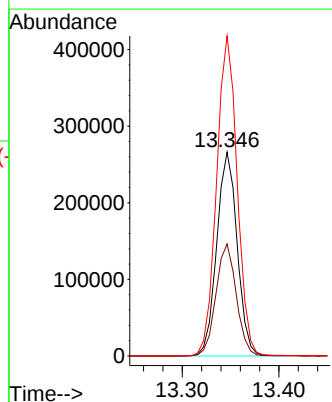
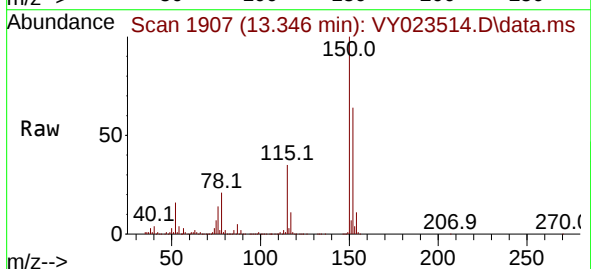
Tgt Ion:152 Resp: 389973

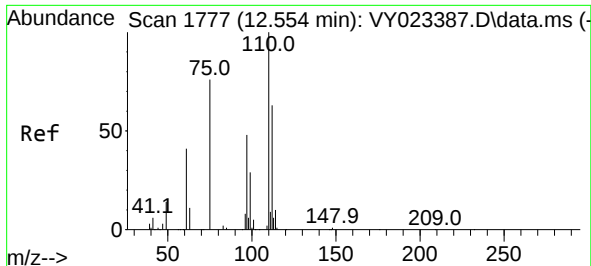
Ion Ratio Lower Upper

152 100

115 54.9 27.1 81.2

150 158.1 0.0 347.4

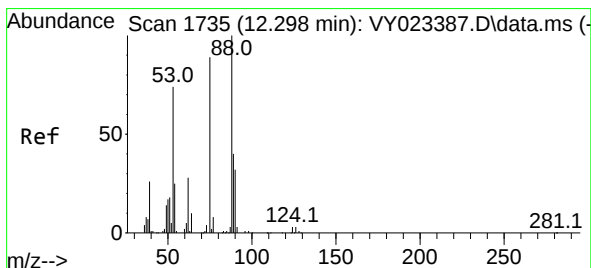
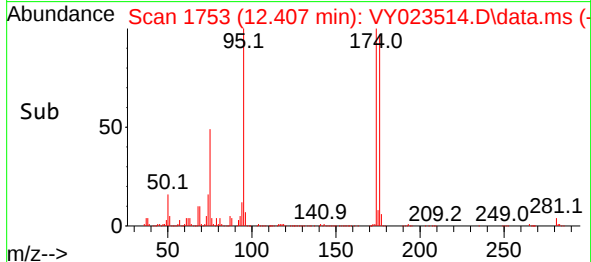
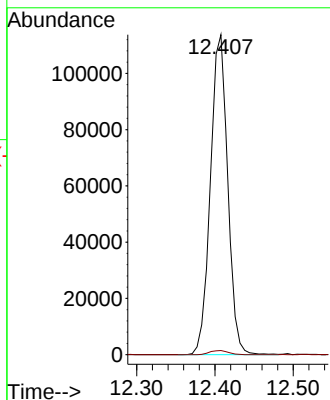
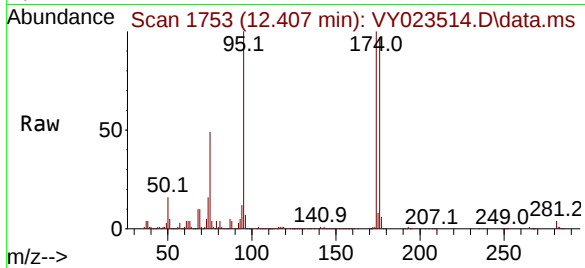




#76
1,2,3-Trichloropropane
Concen: 50.709 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

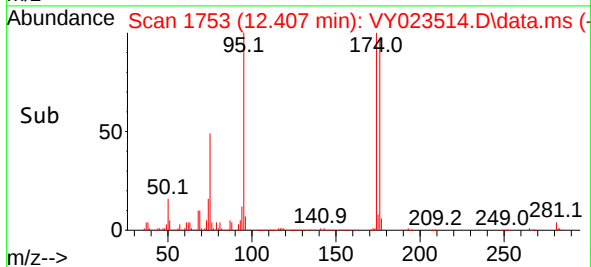
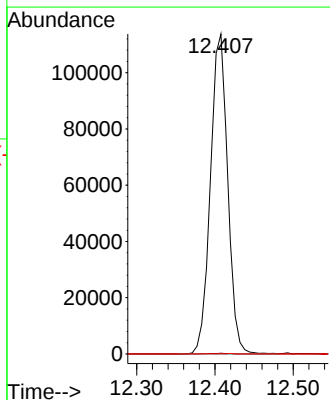
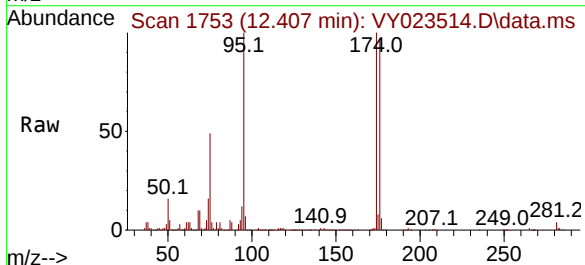
Instrument :
MSVOA_Y
ClientSampleId :

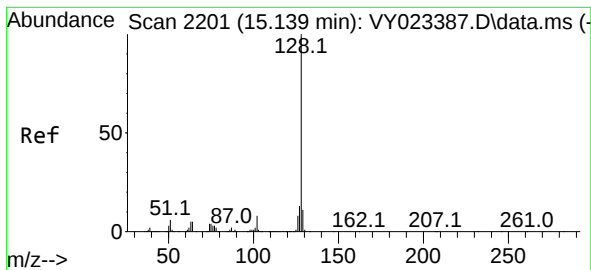
Tgt Ion: 75 Resp: 174468
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 124.347 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023514.D
Acq: 20 Oct 2025 17:21

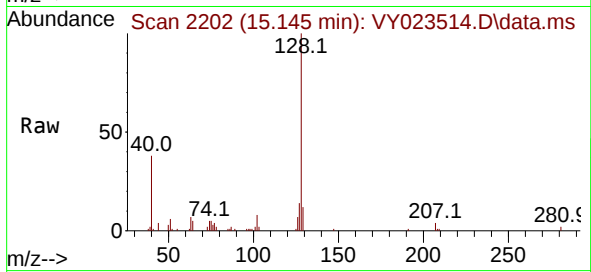
Tgt Ion: 75 Resp: 174468
Ion Ratio Lower Upper
75 100
53 0.2 68.6 102.8#
89 0.0 39.0 58.4#





#95
 Naphthalene
 Concen: 1.494 ug/l
 RT: 15.145 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY023514.D
 Acq: 20 Oct 2025 17:21

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:	128	Resp:	17297
Ion	Ratio	Lower	Upper
128	100		
127	13.9	10.4	15.6
129	10.5	8.9	13.3

