

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070125\
 Data File : VY022895.D
 Acq On : 01 Jul 2025 12:34
 Operator : SY/MD
 Sample : Q2457-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OK-2-062725RE

Quant Time: Jul 02 02:45:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062325S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 24 08:29:52 2025
 Response via : Initial Calibration

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

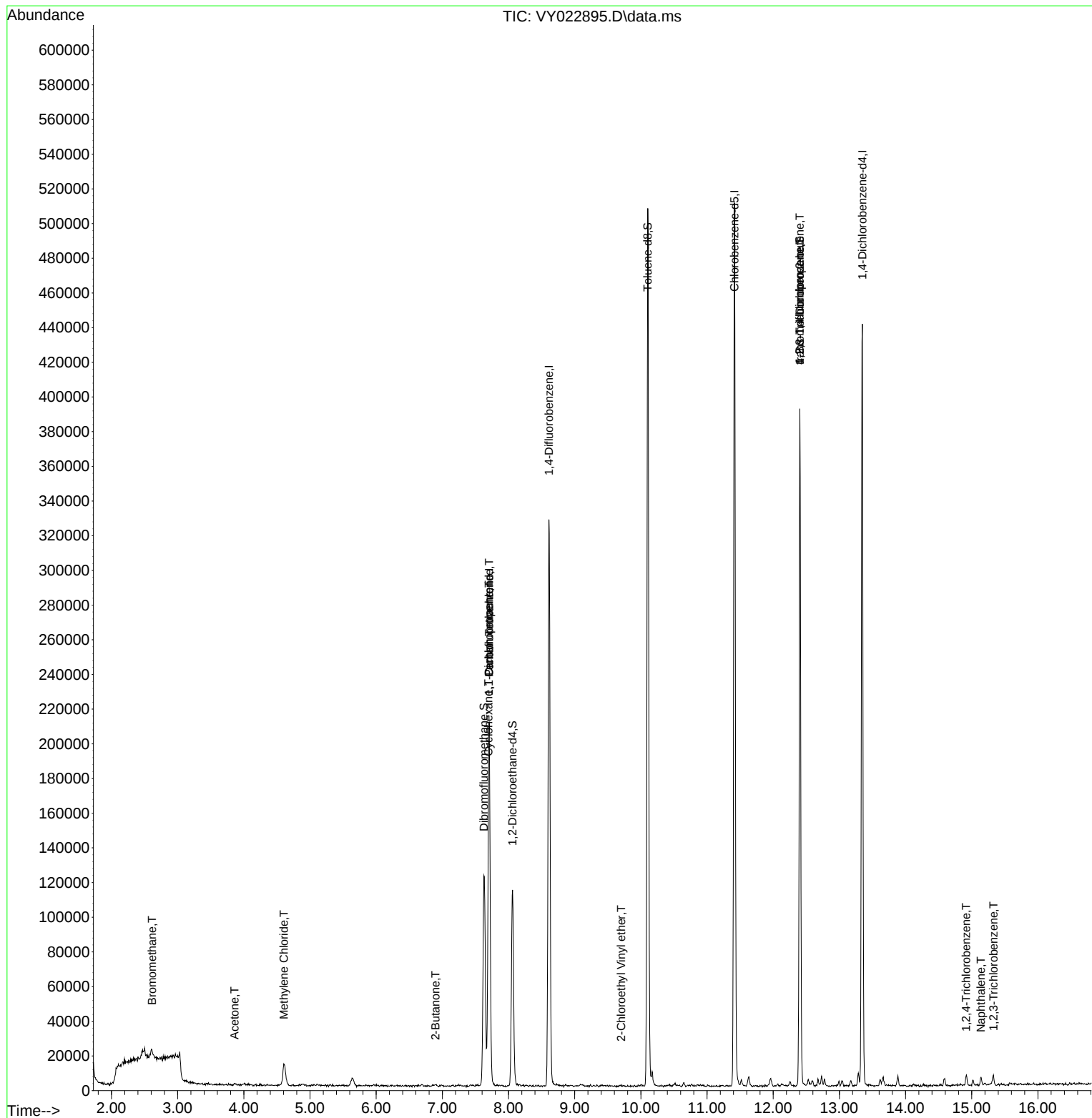
Internal Standards						
1) Pentafluorobenzene	7.707	168	159831	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	281268	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	263568	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	109145	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	90148	50.535	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.060%			
35) Dibromofluoromethane	7.628	113	88860	51.949	ug/l	-0.01
Spiked Amount 50.000	Range 54 - 147		Recovery = 103.900%			
50) Toluene-d8	10.103	98	332025	48.916	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 97.840%			
62) 4-Bromofluorobenzene	12.401	95	110833	50.794	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 101.580%			
Target Compounds						Qvalue
5) Bromomethane	2.610	94	3054	1.191	ug/l	81
16) Acetone	3.860	43	1484	4.401	ug/l #	80
20) Methylene Chloride	4.604	84	8538	4.010	ug/l #	79
25) 2-Butanone	6.896	43	535	1.090	ug/l #	46
31) Cyclohexane	7.695	56	4116	1.343	ug/l #	38
36) 1,1-Dichloropropene	7.701	75	13445	5.186	ug/l #	52
38) Carbon Tetrachloride	7.707	117	15943	5.828	ug/l #	16
58) 2-Chloroethyl Vinyl ether	9.701	63	120	15.771	ug/l #	48
76) 1,2,3-Trichloropropane	12.401	75	63460	56.952	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	63460	143.882	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.913	180	1881	1.029	ug/l	89
95) Naphthalene	15.139	128	3768	1.140	ug/l	96
96) 1,2,3-Trichlorobenzene	15.328	180	1819	1.151	ug/l	97

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

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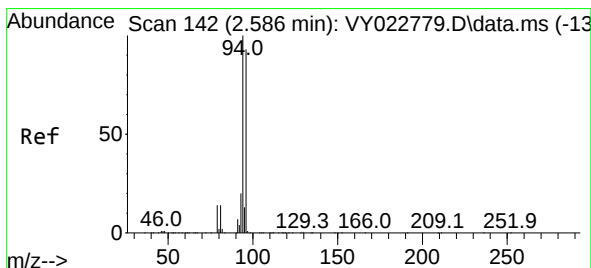
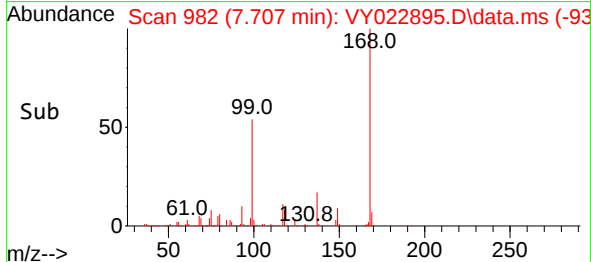
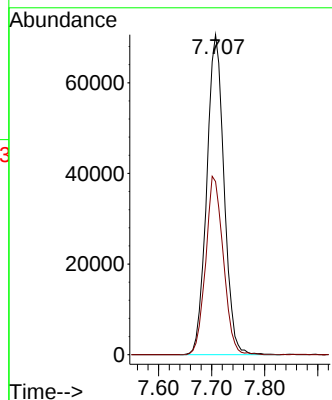
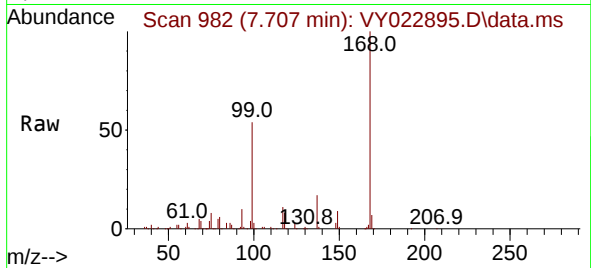




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

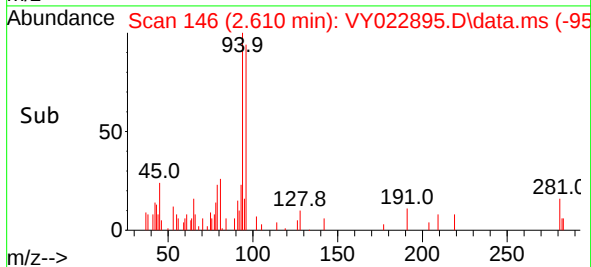
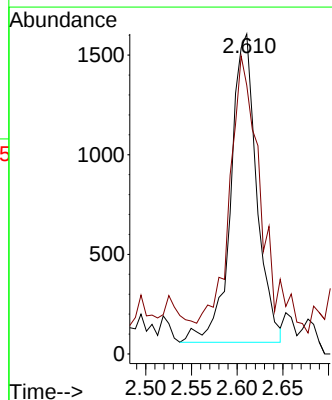
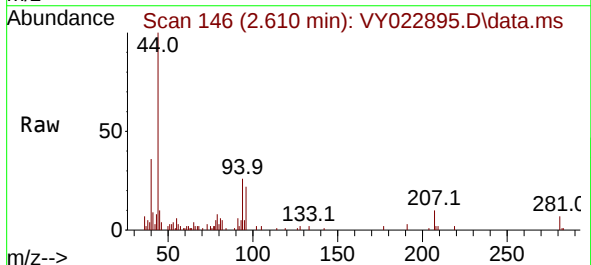
Instrument :
MSVOA_Y
ClientSampleId :
OK-2-062725RE

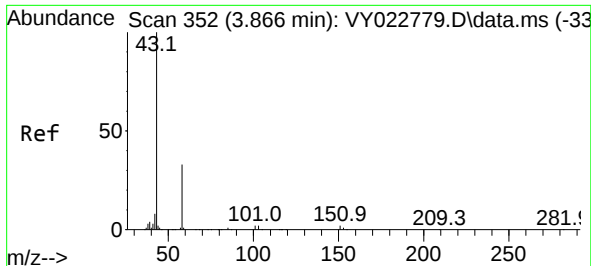
Tgt Ion:168 Resp: 159831
Ion Ratio Lower Upper
168 100
99 54.1 44.3 66.5



#5
Bromomethane
Concen: 1.191 ug/l
RT: 2.610 min Scan# 146
Delta R.T. 0.012 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

Tgt Ion: 94 Resp: 3054
Ion Ratio Lower Upper
94 100
96 74.7 74.0 111.0

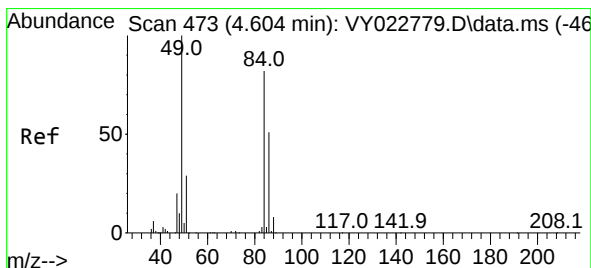
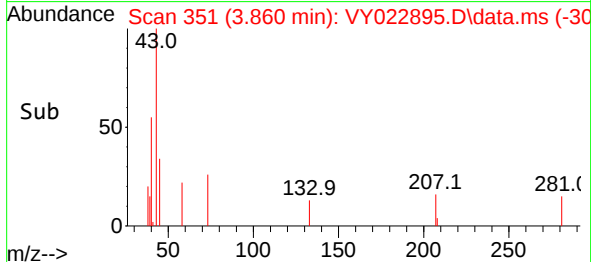
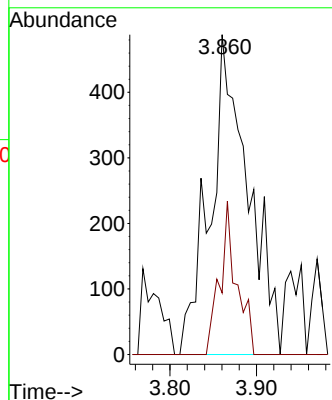
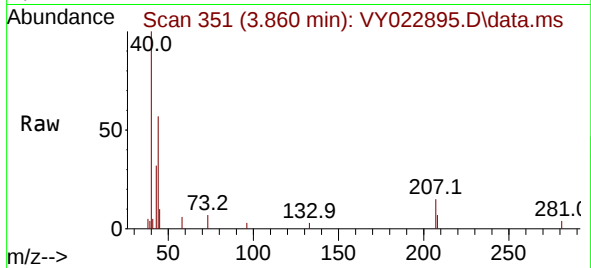




#16
Acetone
Concen: 4.401 ug/l
RT: 3.860 min Scan# 352
Delta R.T. -0.018 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

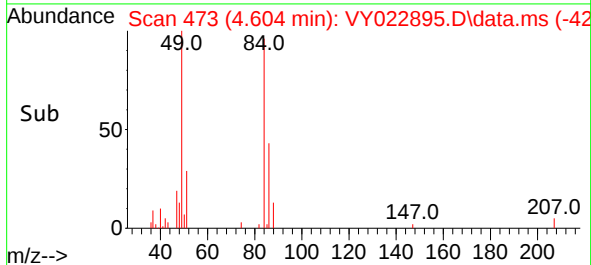
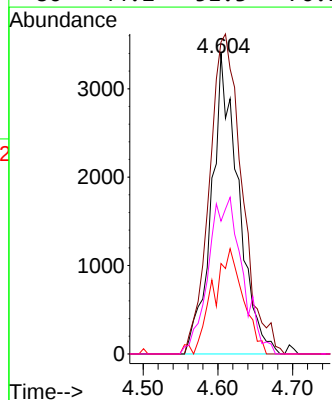
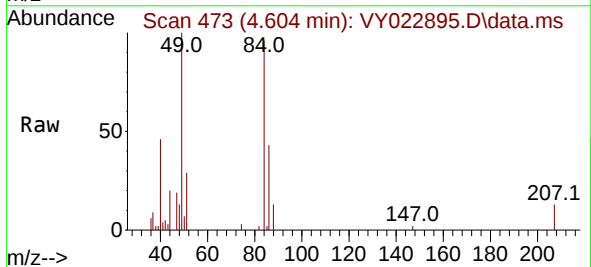
Instrument :
MSVOA_Y
ClientSampleId :
OK-2-062725RE

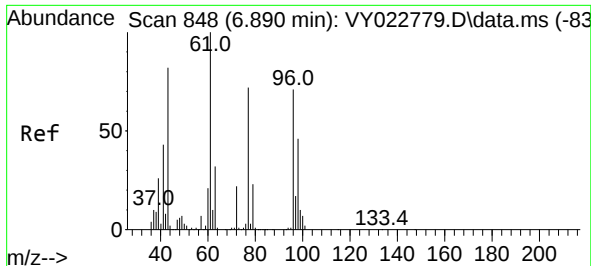
Tgt Ion: 43 Resp: 1484
Ion Ratio Lower Upper
43 100
58 19.3 24.0 36.0#



#20
Methylene Chloride
Concen: 4.010 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.019 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

Tgt Ion: 84 Resp: 8538
Ion Ratio Lower Upper
84 100
49 103.6 101.9 152.9
51 30.1 29.8 44.8
86 44.2 51.3 76.9#





#25

2-Butanone

Concen: 1.090 ug/l

RT: 6.896 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY022895.D

Acq: 01 Jul 2025 12:34

Instrument :

MSVOA_Y

ClientSampleId :

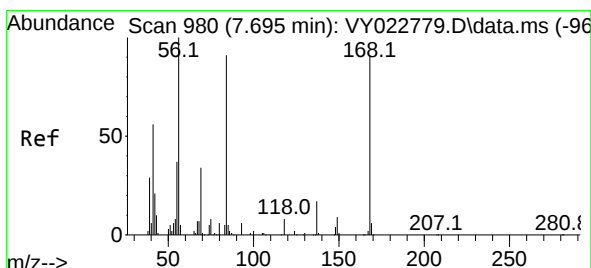
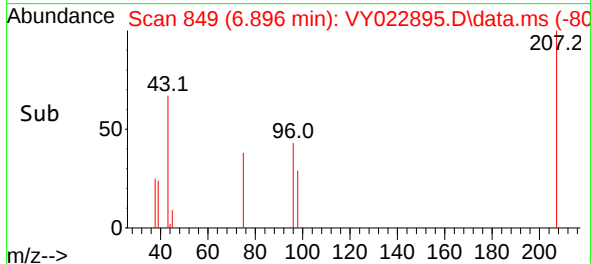
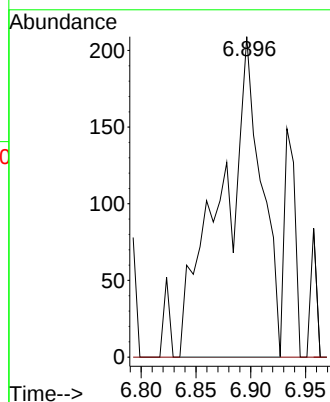
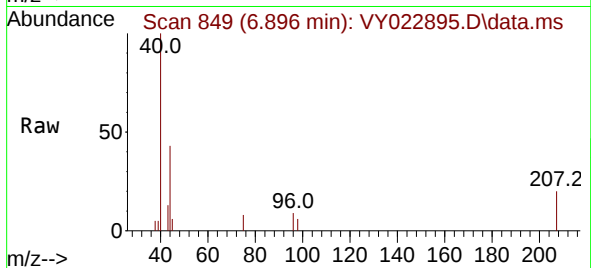
OK-2-062725RE

Tgt Ion: 43 Resp: 535

Ion Ratio Lower Upper

43 100

72 0.0 22.9 34.3#



#31

Cyclohexane

Concen: 1.343 ug/l

RT: 7.695 min Scan# 980

Delta R.T. -0.012 min

Lab File: VY022895.D

Acq: 01 Jul 2025 12:34

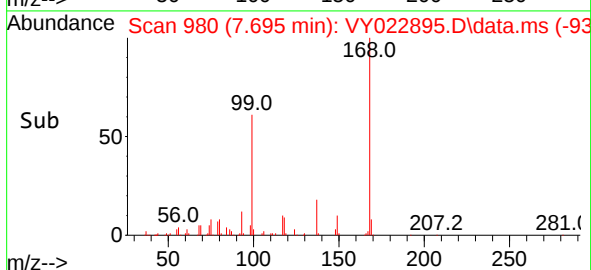
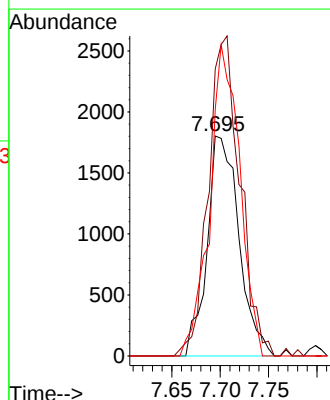
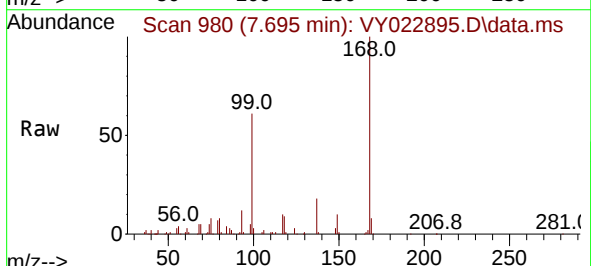
Tgt Ion: 56 Resp: 4116

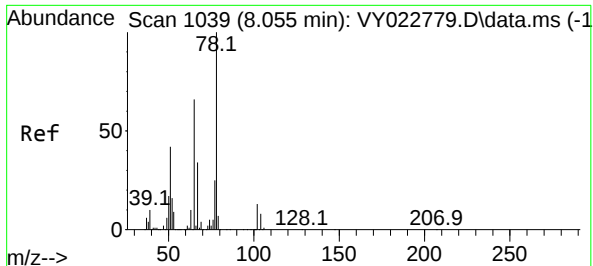
Ion Ratio Lower Upper

56 100

69 130.5 27.0 40.6#

84 112.1 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 50.535 ug/l

RT: 8.061 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY022895.D

Acq: 01 Jul 2025 12:34

Instrument :

MSVOA_Y

ClientSampleId :

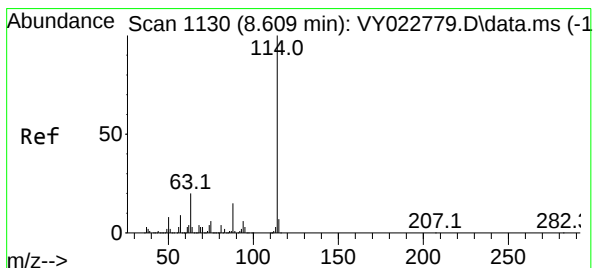
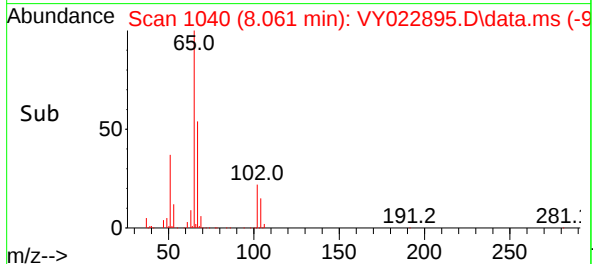
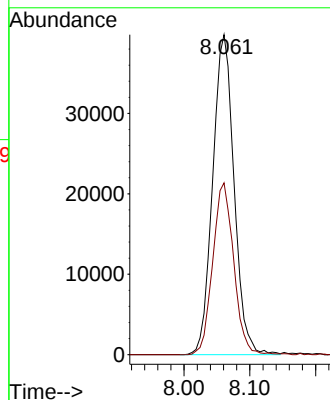
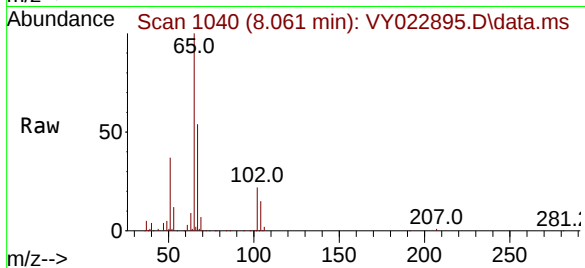
OK-2-062725RE

Tgt Ion: 65 Resp: 90148

Ion Ratio Lower Upper

65 100

67 52.6 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022895.D

Acq: 01 Jul 2025 12:34

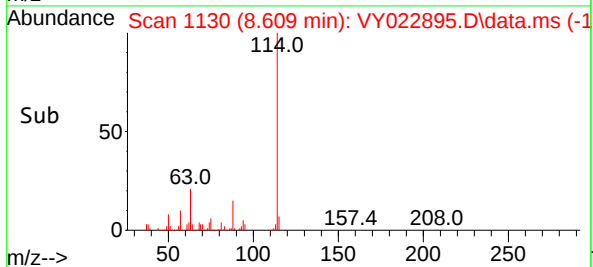
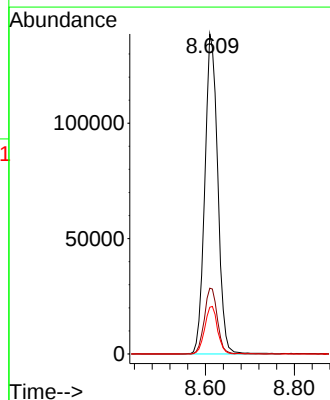
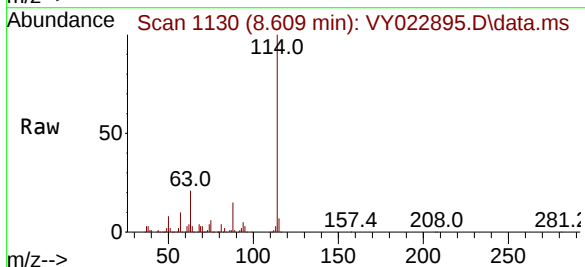
Tgt Ion: 114 Resp: 281268

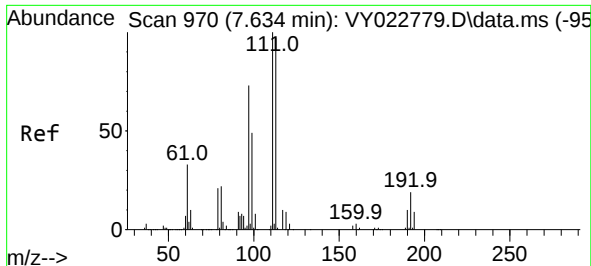
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 14.6 0.0 27.8

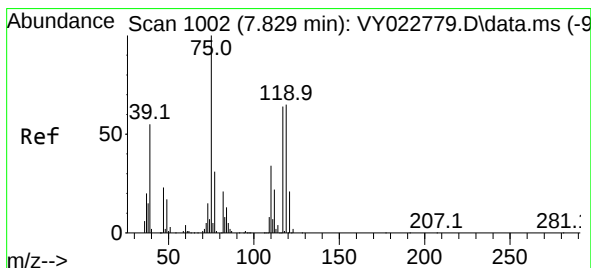
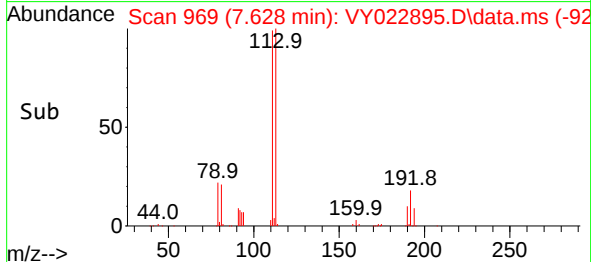
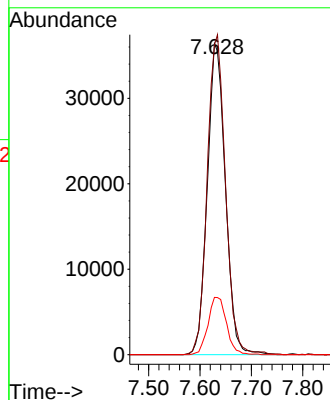
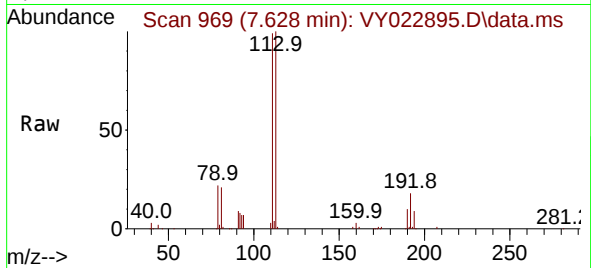




#35
Dibromofluoromethane
Concen: 51.949 ug/l
RT: 7.628 min Scan# 911
Delta R.T. -0.012 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

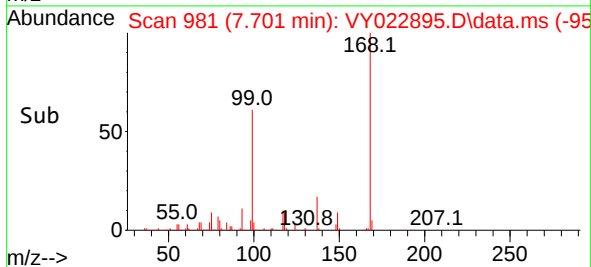
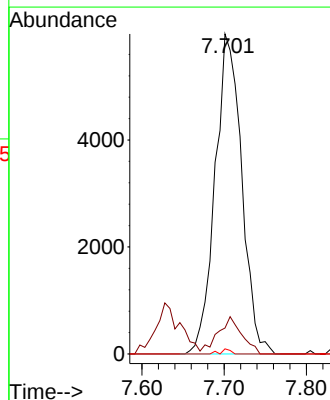
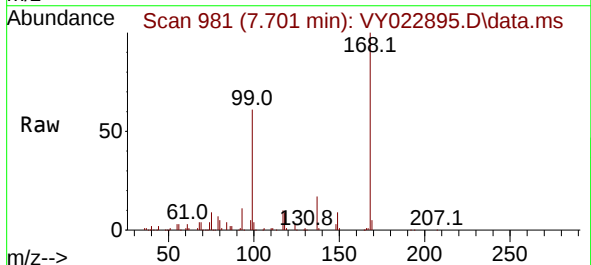
Instrument :
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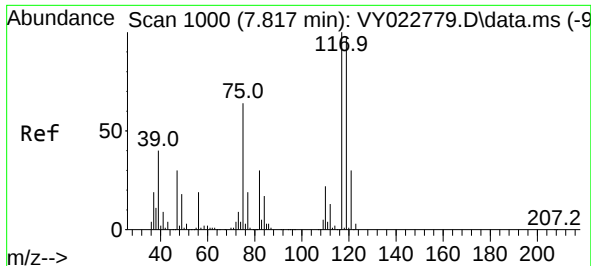
Tgt Ion:113 Resp: 88860
Ion Ratio Lower Upper
113 100
111 103.7 81.1 121.7
192 18.9 14.2 21.2



#36
1,1-Dichloropropene
Concen: 5.186 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

Tgt Ion: 75 Resp: 13445
Ion Ratio Lower Upper
75 100
110 10.5 16.9 50.7#
77 0.6 24.8 37.2#

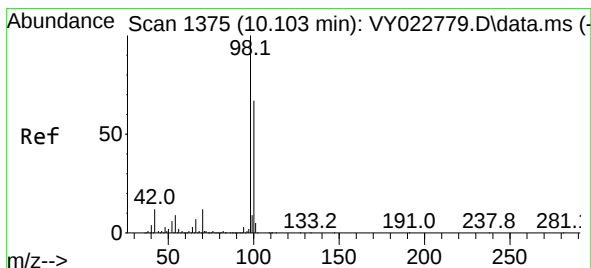
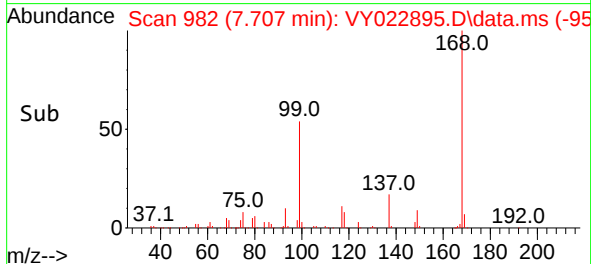
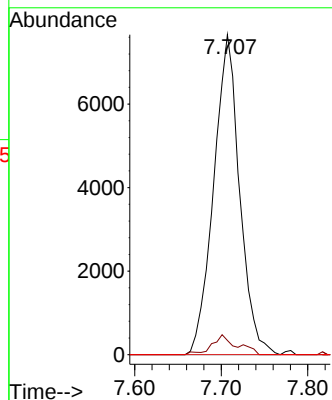
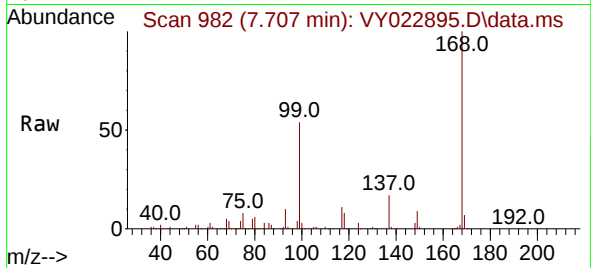




#38
Carbon Tetrachloride
Concen: 5.828 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

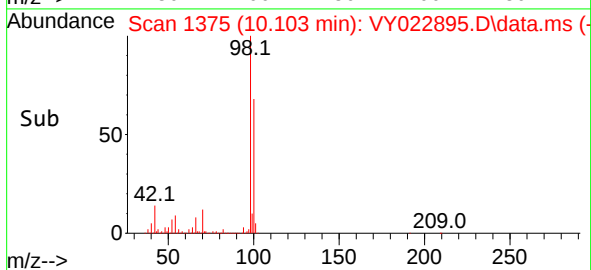
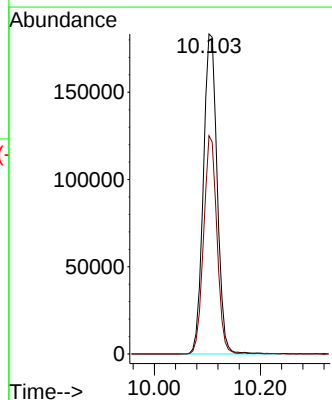
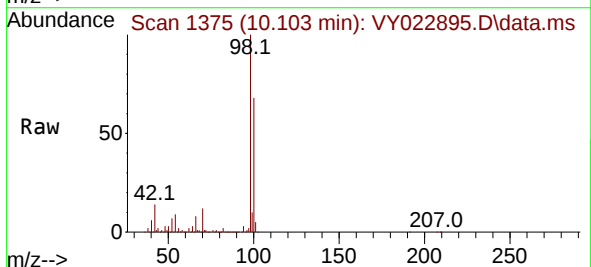
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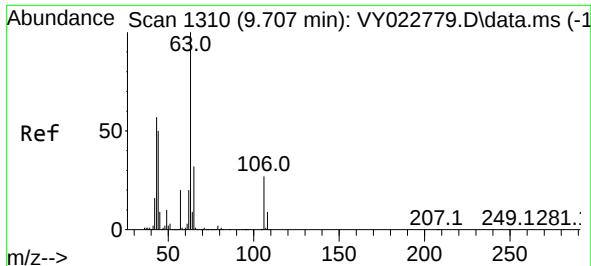
Tgt Ion:117 Resp: 15943
Ion Ratio Lower Upper
117 100
119 4.5 75.0 112.6#
121 0.0 25.0 37.4#



#50
Toluene-d8
Concen: 48.916 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

Tgt Ion: 98 Resp: 332025
Ion Ratio Lower Upper
98 100
100 65.5 51.4 77.0

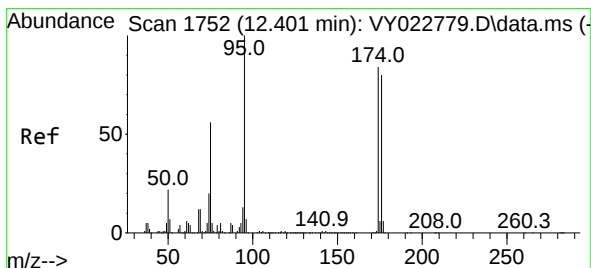
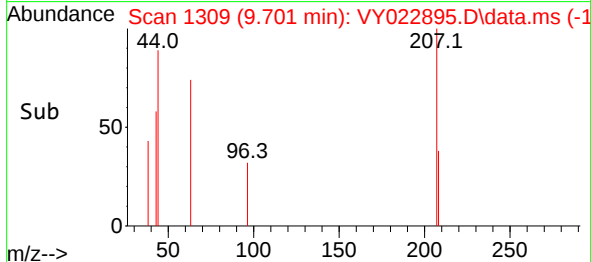
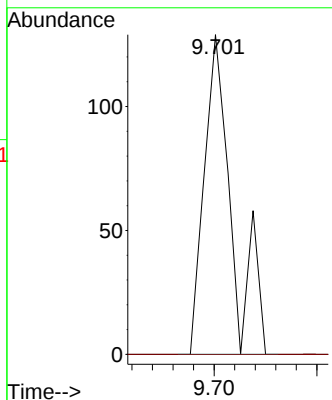
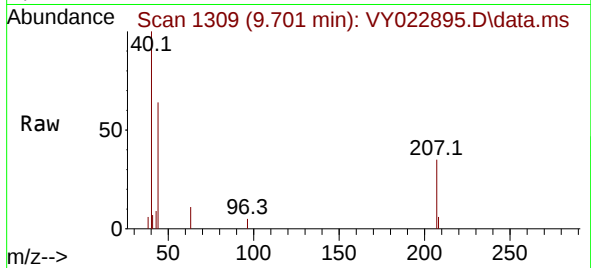




#58
2-Chloroethyl Vinyl ether
Concen: 15.771 ug/l
RT: 9.701 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

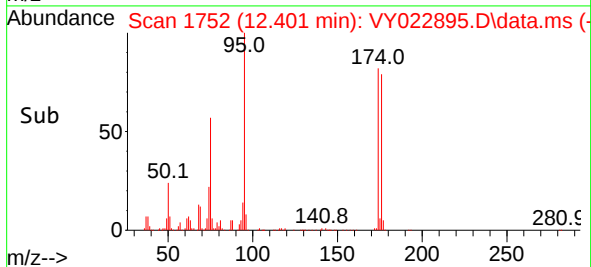
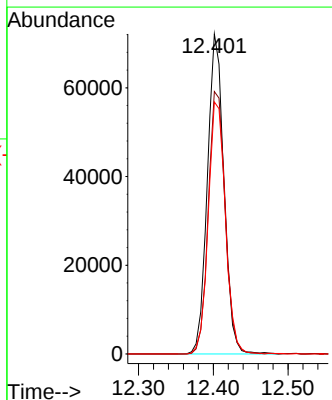
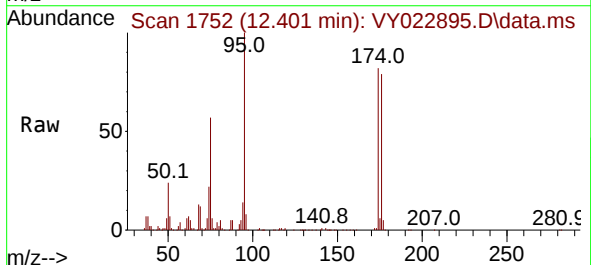
Instrument :
MSVOA_Y
ClientSampleId :
OK-2-062725RE

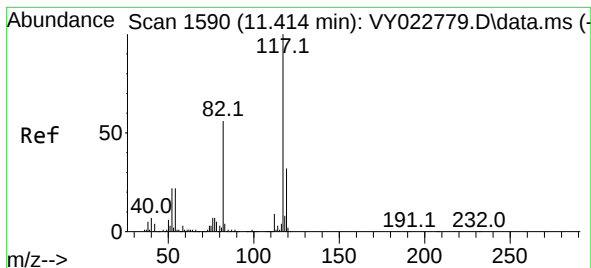
Tgt Ion: 63 Resp: 120
Ion Ratio Lower Upper
63 100
106 0.0 21.6 32.4#



#62
4-Bromofluorobenzene
Concen: 50.794 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

Tgt Ion: 95 Resp: 110833
Ion Ratio Lower Upper
95 100
174 84.8 0.0 170.0
176 81.8 0.0 166.2

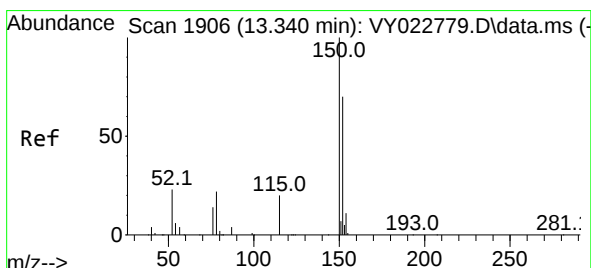
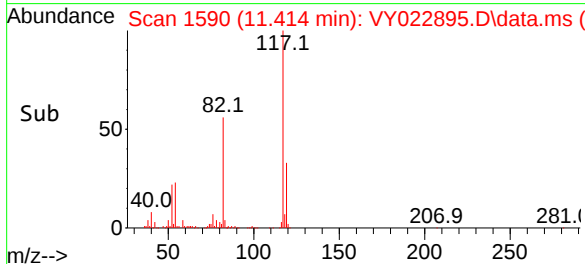
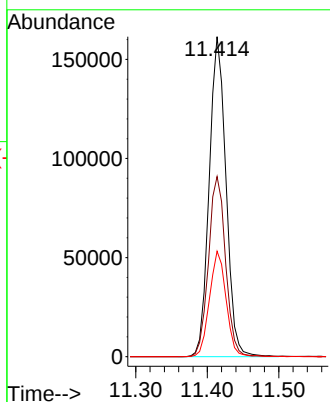
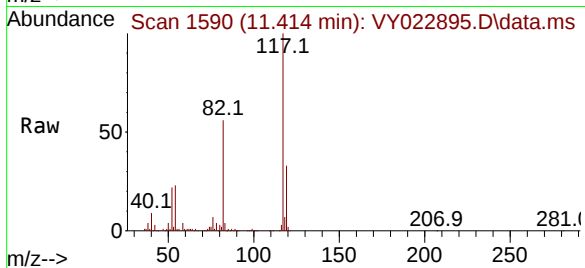




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. -0.006 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

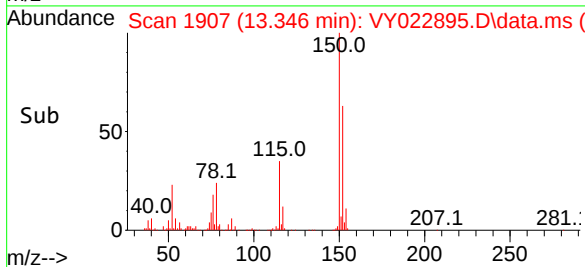
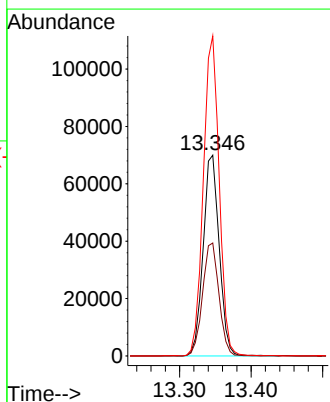
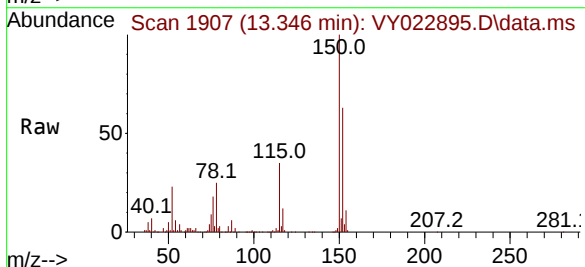
Instrument :
MSVOA_Y
ClientSampleId :
OK-2-062725RE

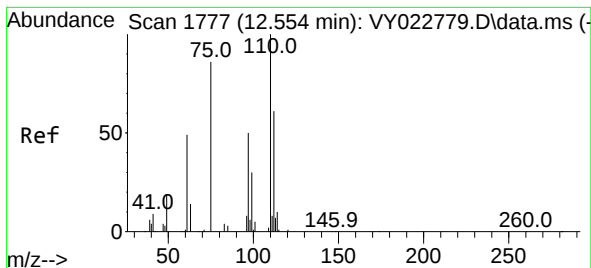
Tgt Ion:117 Resp: 263568
Ion Ratio Lower Upper
117 100
82 56.3 44.6 66.8
119 32.9 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

Tgt Ion:152 Resp: 109145
Ion Ratio Lower Upper
152 100
115 57.5 28.9 86.7
150 156.6 0.0 349.6





#76

1,2,3-Trichloropropane

Concen: 56.952 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY022895.D

Acq: 01 Jul 2025 12:34

Instrument :

MSVOA_Y

ClientSampleId :

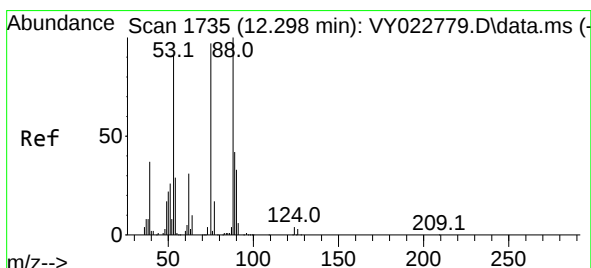
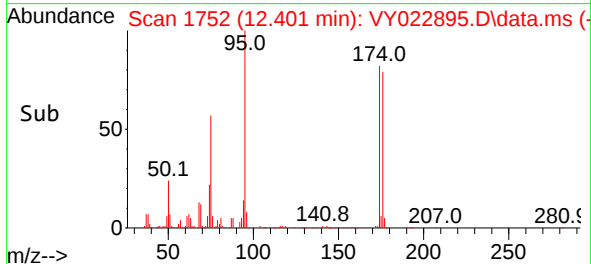
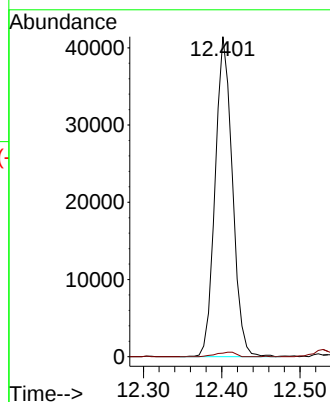
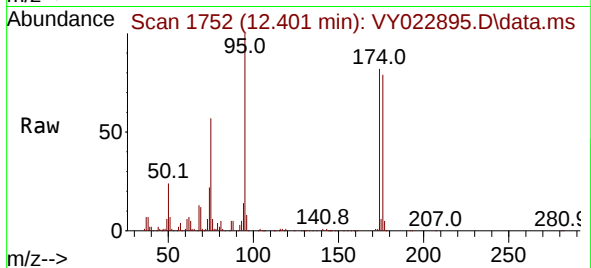
OK-2-062725RE

Tgt Ion: 75 Resp: 63460

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 143.882 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.097 min

Lab File: VY022895.D

Acq: 01 Jul 2025 12:34

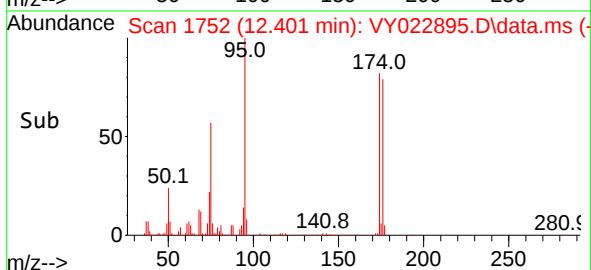
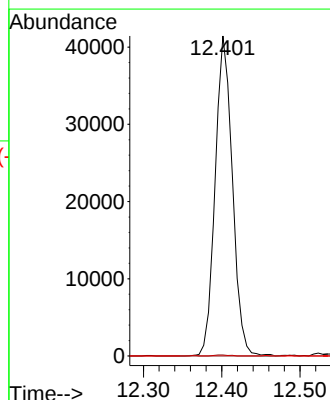
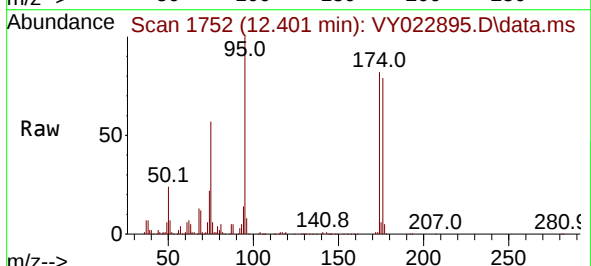
Tgt Ion: 75 Resp: 63460

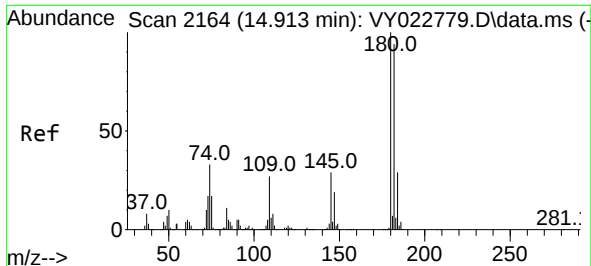
Ion Ratio Lower Upper

75 100

53 0.3 78.5 117.7#

89 0.0 35.7 53.5#

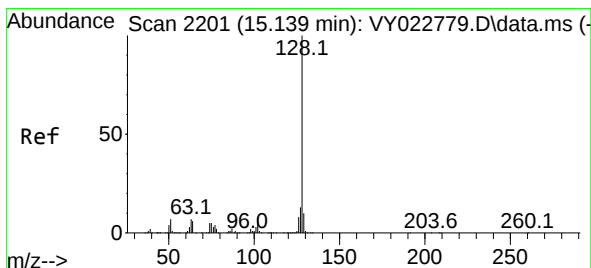
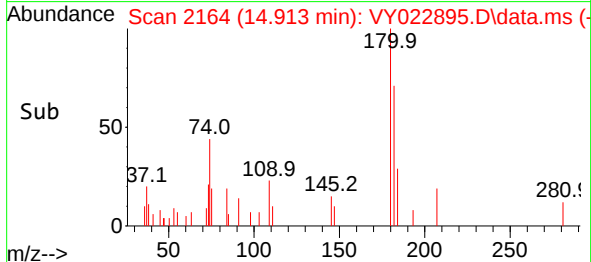
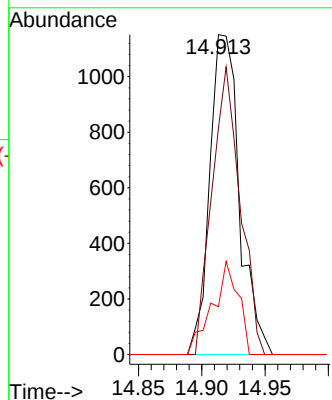
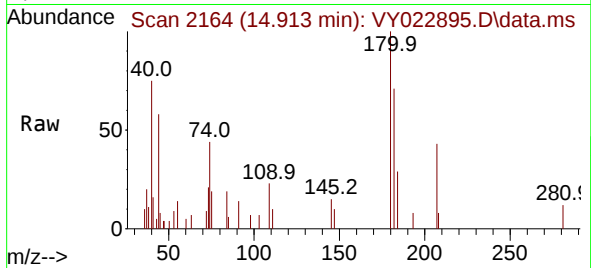




#93
1,2,4-Trichlorobenzene
Concen: 1.029 ug/l
RT: 14.913 min Scan# 2164
Delta R.T. -0.006 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

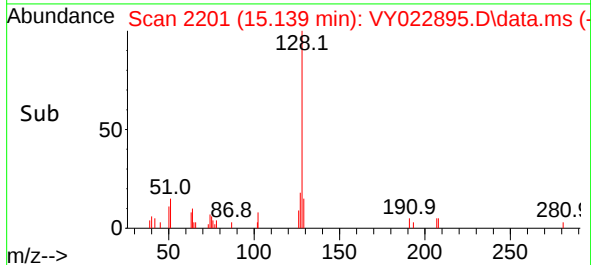
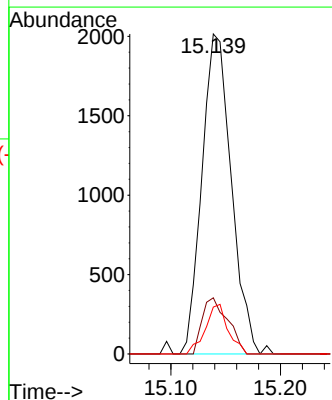
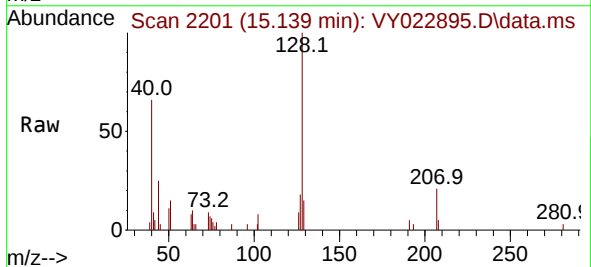
Instrument :
MSVOA_Y
ClientSampleId :
OK-2-062725RE

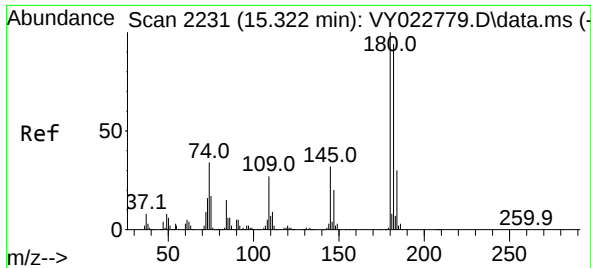
Tgt Ion:180 Resp: 1881
Ion Ratio Lower Upper
180 100
182 85.5 48.4 145.3
145 25.2 15.5 46.5



#95
Naphthalene
Concen: 1.140 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. -0.006 min
Lab File: VY022895.D
Acq: 01 Jul 2025 12:34

Tgt Ion:128 Resp: 3768
Ion Ratio Lower Upper
128 100
127 15.3 10.4 15.6
129 12.0 8.9 13.3





#96
 1,2,3-Trichlorobenzene
 Concen: 1.151 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY022895.D
 Acq: 01 Jul 2025 12:34

Instrument :
 MSVOA_Y
 ClientSampleId :
 OK-2-062725RE

Tgt Ion:	180	Resp:	1819
Ion	Ratio	Lower	Upper
180	100		
182	93.0	47.1	141.3
145	34.3	15.2	45.6

