

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY111125\
 Data File : VY023735.D
 Acq On : 11 Nov 2025 13:17
 Operator : SY/MD
 Sample : Q3593-09
 Misc : 5.82g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 C-LAW-25-0156-0166-COMP

Quant Time: Nov 12 03:36:00 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	862074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	1375358	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	927157	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	158147	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	338889	47.011	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	94.020%
35) Dibromofluoromethane	7.640	113	405209	47.948	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.900%
50) Toluene-d8	10.109	98	1470881	46.736	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	93.480%
62) 4-Bromofluorobenzene	12.408	95	279484	26.898	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	53.800%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.854	59	8026	14.966	ug/l #	88
20) Methylene Chloride	4.629	84	13930	1.501	ug/l	96
31) Cyclohexane	7.707	56	18230	1.520	ug/l #	1
32) 1,1,1-Trichloroethane	7.622	97	39349	2.870	ug/l	99
36) 1,1-Dichloropropene	7.713	75	55842	4.991	ug/l #	48
38) Carbon Tetrachloride	7.713	117	76238	5.620	ug/l #	16
39) Methylcyclohexane	9.116	83	24469	1.680	ug/l	96
55) 1,1,2-Trichloroethane	10.548	97	16927	2.544	ug/l #	23
68) m/p-Xylenes	11.627	106	30723	2.347	ug/l	99
74) N-amyl acetate	12.054	43	3297	1.761	ug/l #	58
76) 1,2,3-Trichloropropane	12.408	75	135310	96.977	ug/l #	100
78) n-propylbenzene	12.603	91	16589	1.375	ug/l	97
80) 1,3,5-Trimethylbenzene	12.737	105	35879	4.260	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.408	75	135310	237.806	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.048	105	89285	10.623	ug/l	100
85) sec-Butylbenzene	13.176	105	27354	2.452	ug/l	83
90) Hexachloroethane	13.895	117	2829	1.385	ug/l #	16
95) Naphthalene	15.151	128	5058	1.077	ug/l #	83
96) 1,2,3-Trichlorobenzene	15.346	180	3390	1.327	ug/l #	12

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

Instrument :
MSVOA_Y
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Abundance

TIC: VY023735.D\data.ms

Time-->

2.00 3.00 4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00

Methylene Chloride, T
Tert butyl alcohol, T

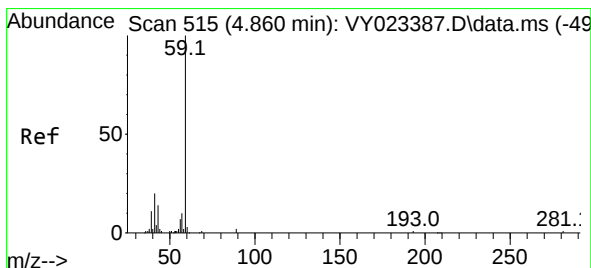
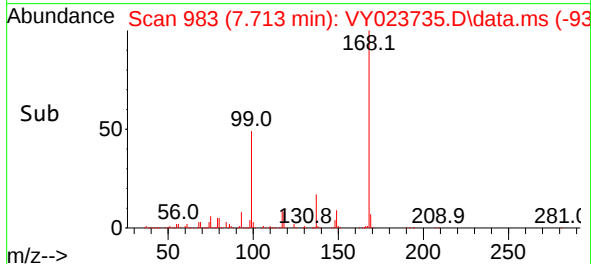
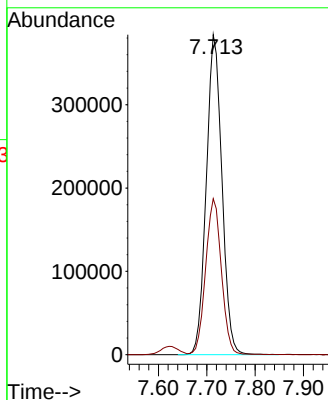
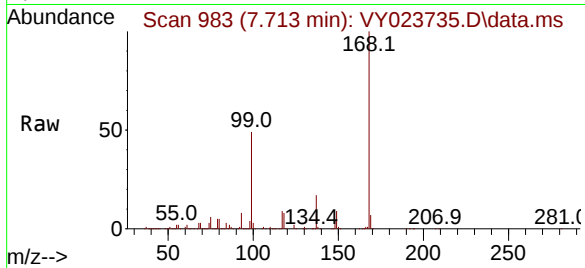
1,1,1-Trichloroethane, T
1,1,2-Trichloroethane, T
Bromomethane, S
1,2-Dichloroethane, d4, S
1,4-Difluorobenzene, I
Methylcyclohexane, T
1,1,2-Trichloroethane, T
Chlorobenzene-d5, I
m/p-Xylenes, T
N-amyl acetate, T
n-propylbenzene, T
1,3,5-Trimethylbenzene, T
1,2,4-Trimethylbenzene, T
sec-Butylbenzene, T
1,4-Dichlorobenzene-d4, I
Hexachloroethane, T
Naphthalene, T
1,2,3-Trichlorobenzene, T



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023735.D
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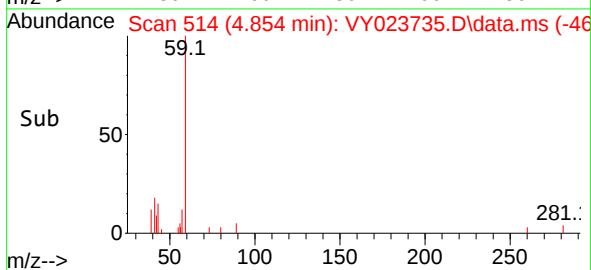
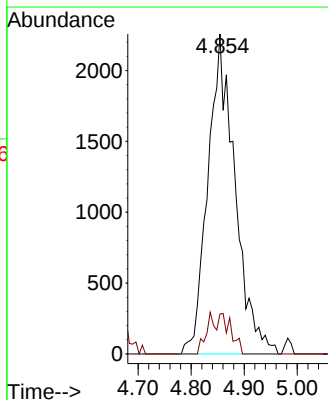
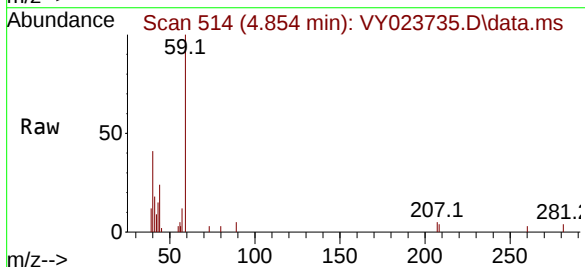
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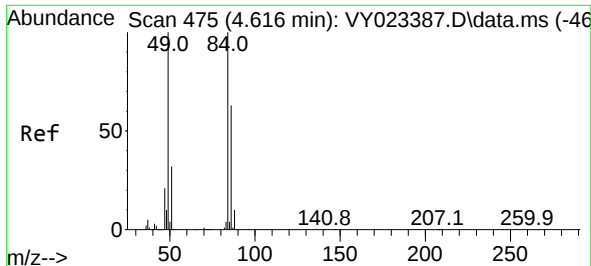
Tgt Ion:168 Resp: 862074
Ion Ratio Lower Upper
168 100
99 48.7 39.7 59.5



#11
Tert butyl alcohol
Concen: 14.966 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion: 59 Resp: 8026
Ion Ratio Lower Upper
59 100
57 5.8 8.3 12.5#

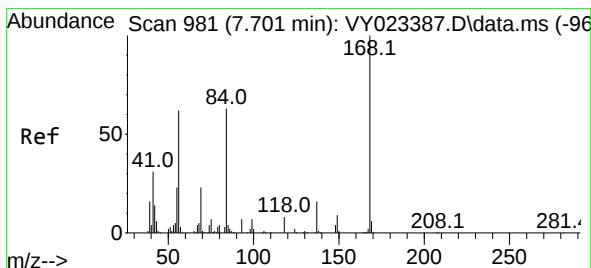
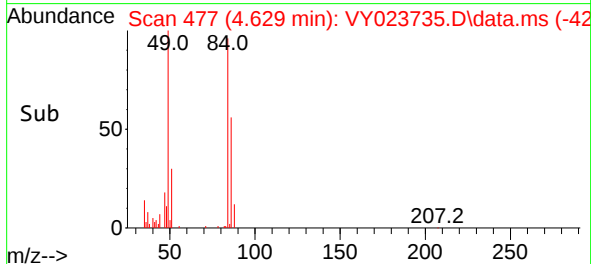
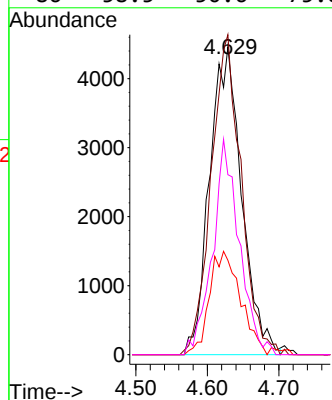
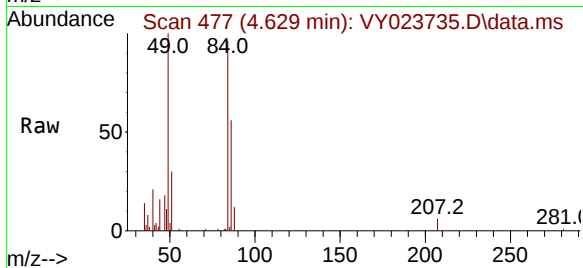




#20
Methylene Chloride
Concen: 1.501 ug/l
RT: 4.629 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

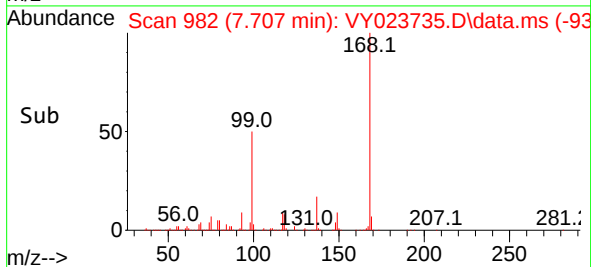
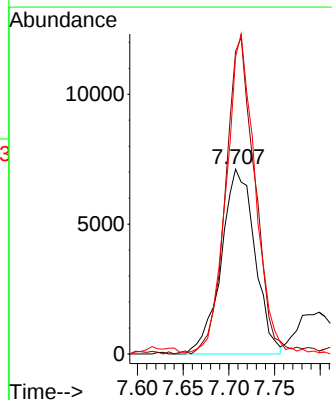
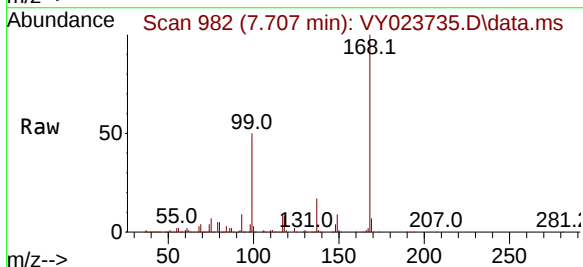
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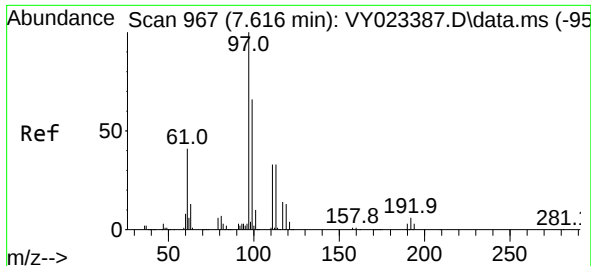
Tgt Ion:	84	Resp:	13930
Ion	Ratio	Lower	Upper
84	100		
49	103.9	80.2	120.4
51	30.7	25.9	38.9
86	58.5	50.6	75.8



#31
Cyclohexane
Concen: 1.520 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion:	56	Resp:	18230
Ion	Ratio	Lower	Upper
56	100		
69	162.8	30.0	45.0#
84	159.9	81.2	121.8#

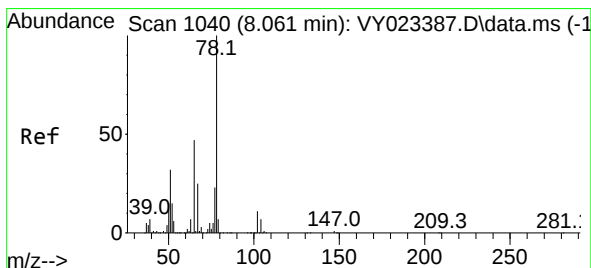
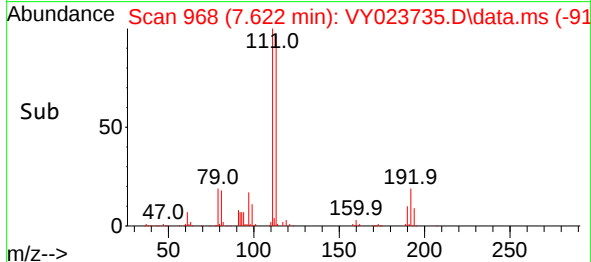
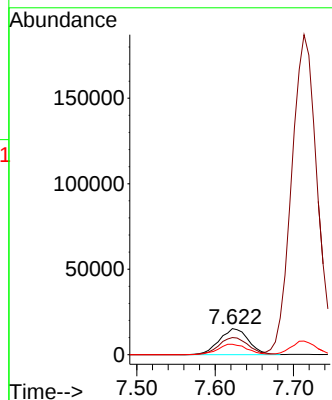
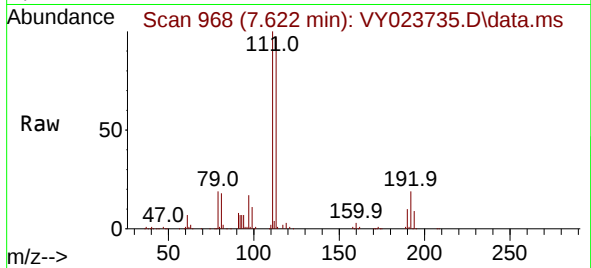




#32
1,1,1-Trichloroethane
Concen: 2.870 ug/l
RT: 7.622 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

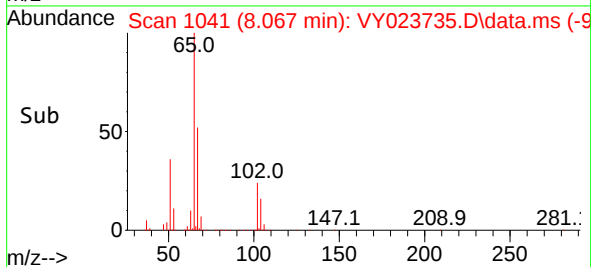
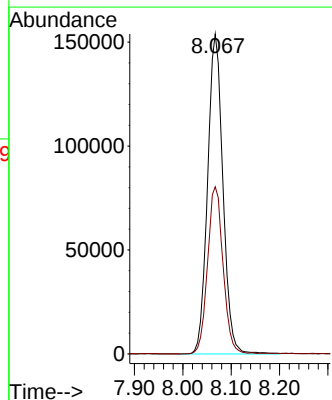
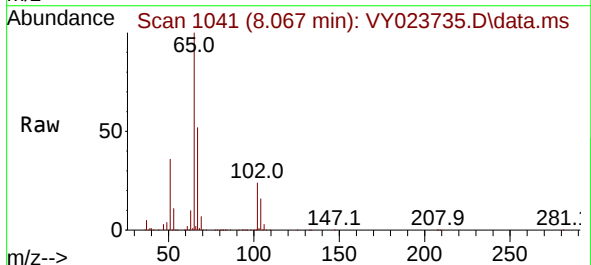
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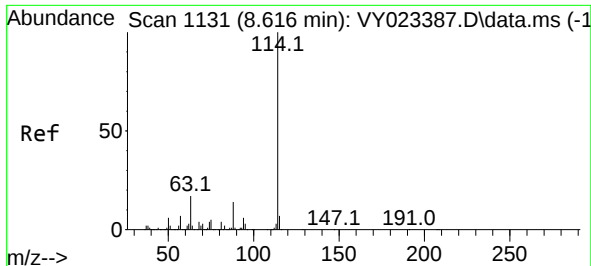
Tgt Ion: 97 Resp: 39349
Ion Ratio Lower Upper
97 100
99 65.1 51.4 77.2
61 40.5 31.9 47.9



#33
1,2-Dichloroethane-d4
Concen: 47.011 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion: 65 Resp: 338889
Ion Ratio Lower Upper
65 100
67 53.0 0.0 105.8

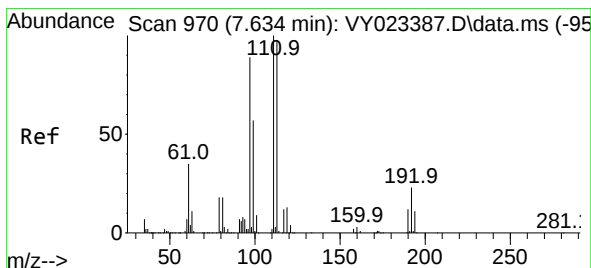
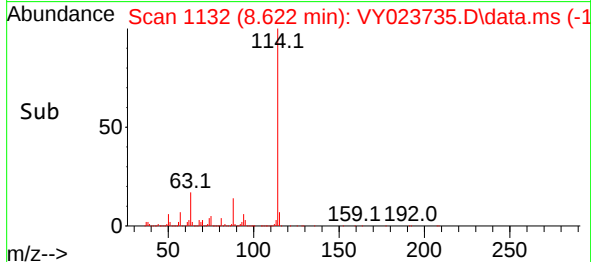
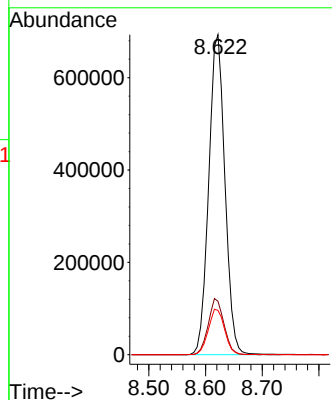
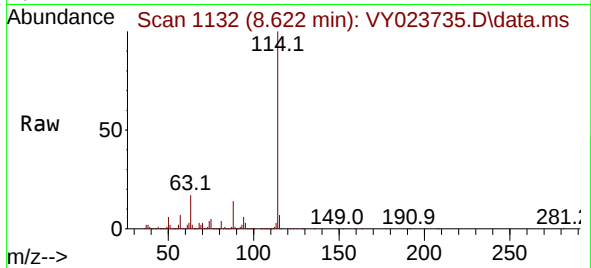




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

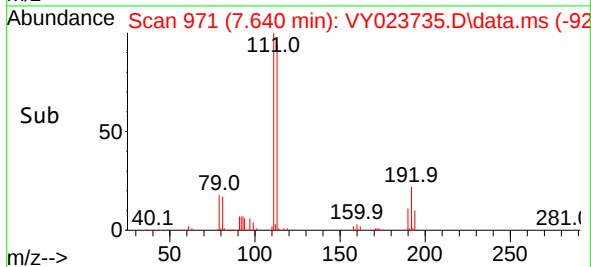
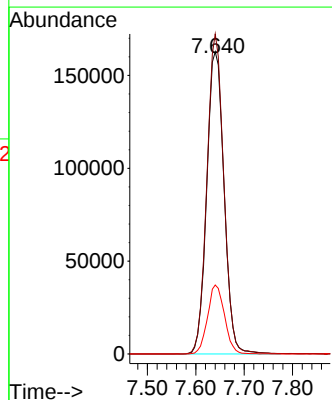
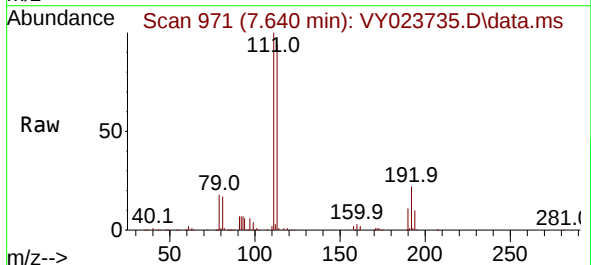
Instrument :
MSVOA_Y
ClientSampleId :
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Tgt Ion:114 Resp: 1375358
Ion Ratio Lower Upper
114 100
63 16.7 0.0 34.2
88 13.9 0.0 28.4



#35
Dibromofluoromethane
Concen: 47.948 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion:113 Resp: 405209
Ion Ratio Lower Upper
113 100
111 103.1 81.8 122.6
192 22.3 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.991 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.122 min

Lab File: VY023735.D

Acq: 11 Nov 2025 13:17

Instrument :

MSVOA_Y

ClientSampleId :

C-LAW-25-0156-0166-COMP

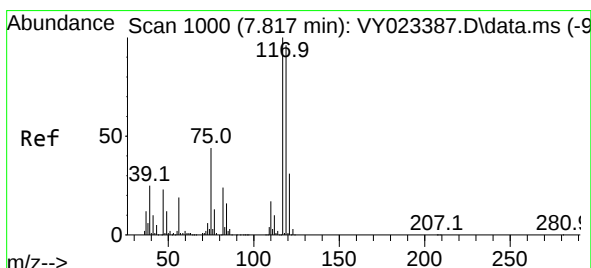
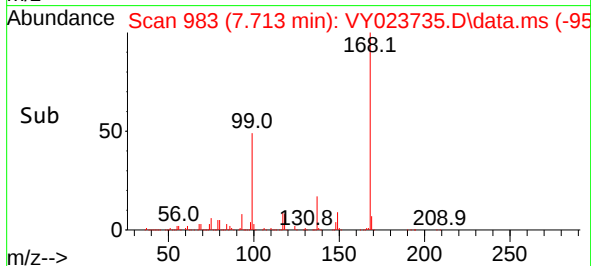
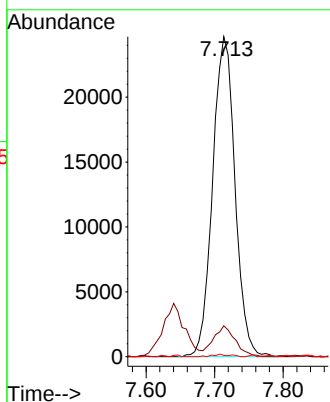
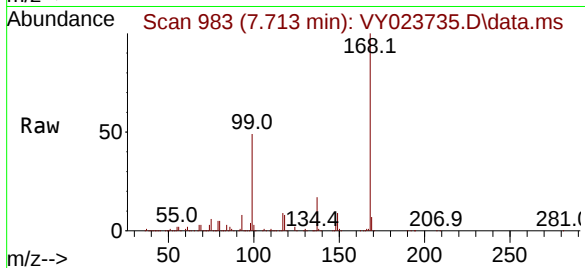
Tgt Ion: 75 Resp: 55842

Ion Ratio Lower Upper

75 100

110 9.3 19.9 59.7#

77 0.6 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.620 ug/l

RT: 7.713 min Scan# 983

Delta R.T. -0.104 min

Lab File: VY023735.D

Acq: 11 Nov 2025 13:17

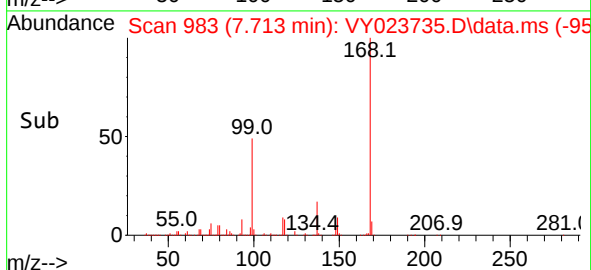
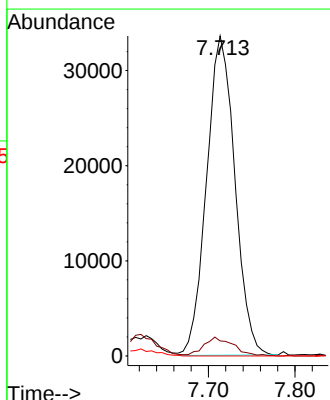
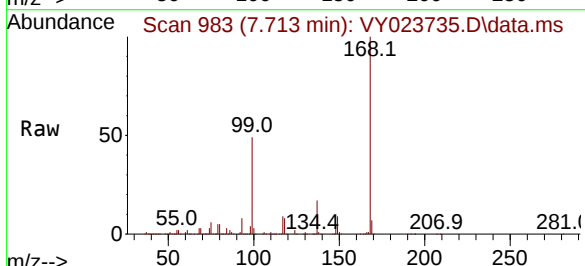
Tgt Ion: 117 Resp: 76238

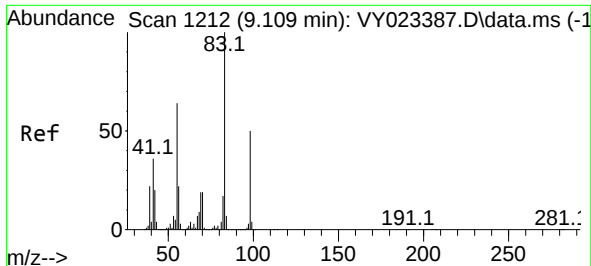
Ion Ratio Lower Upper

117 100

119 4.7 76.8 115.2#

121 0.0 24.5 36.7#

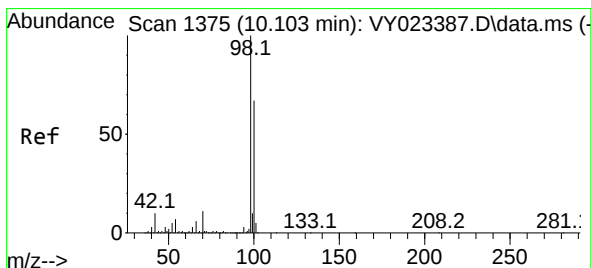
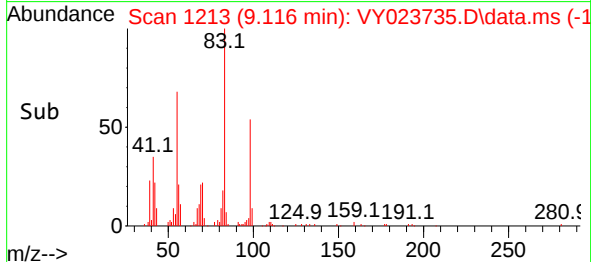
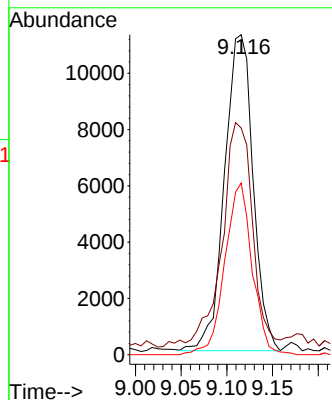
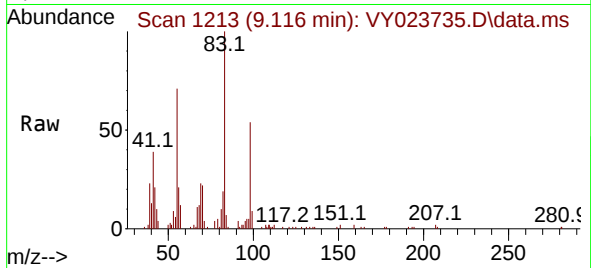




#39
Methylcyclohexane
Concen: 1.680 ug/l
RT: 9.116 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

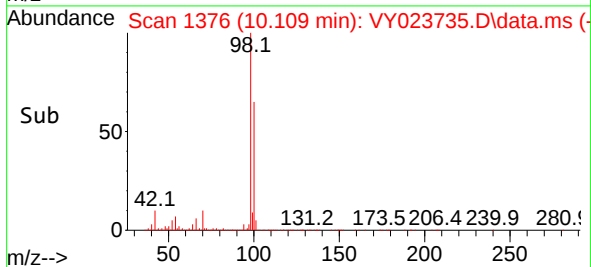
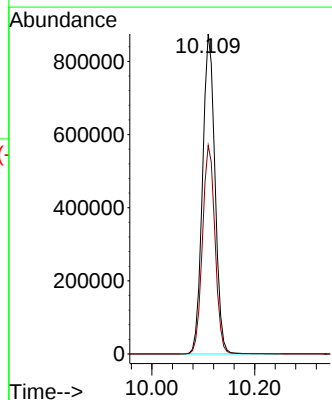
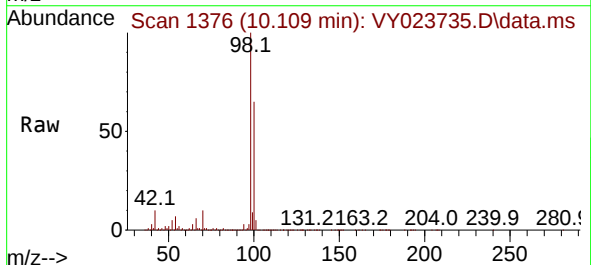
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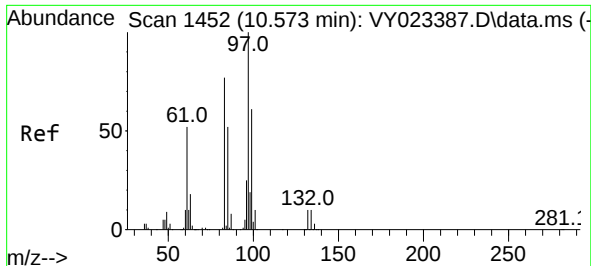
Tgt Ion: 83 Resp: 24469
Ion Ratio Lower Upper
83 100
55 67.1 51.4 77.2
98 54.3 40.4 60.6



#50
Toluene-d8
Concen: 46.736 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion: 98 Resp: 1470881
Ion Ratio Lower Upper
98 100
100 65.6 53.0 79.4

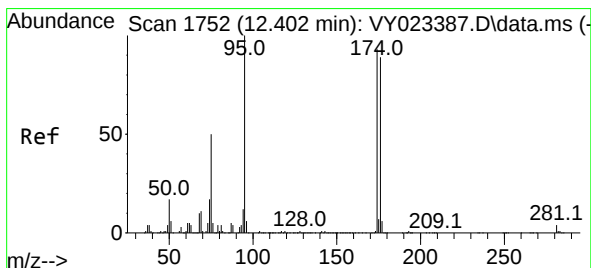
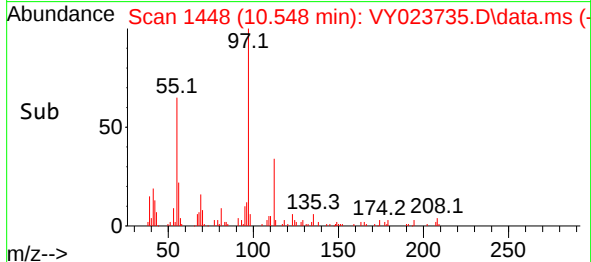
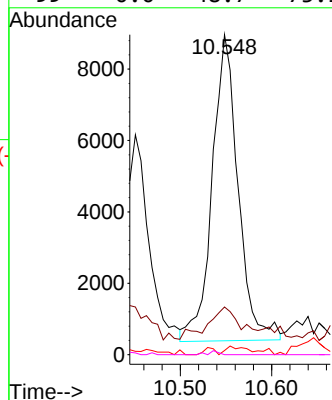
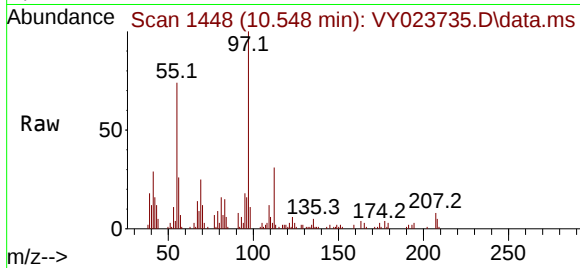




#55
1,1,2-Trichloroethane
Concen: 2.544 ug/l
RT: 10.548 min Scan# 1452
Delta R.T. -0.024 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

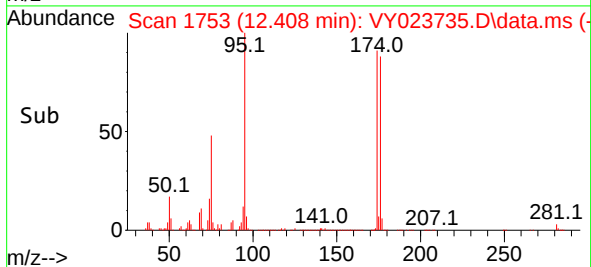
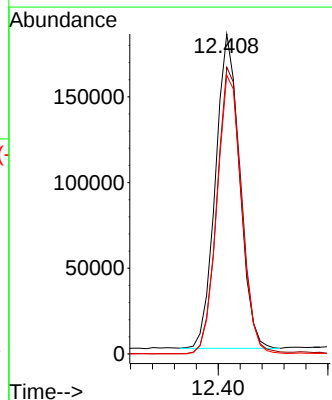
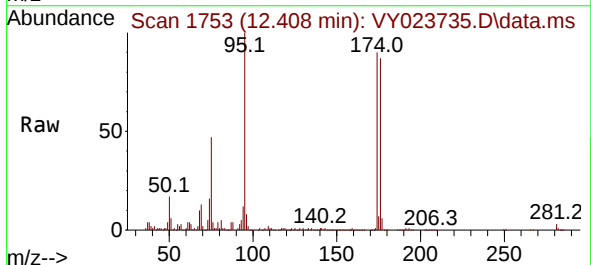
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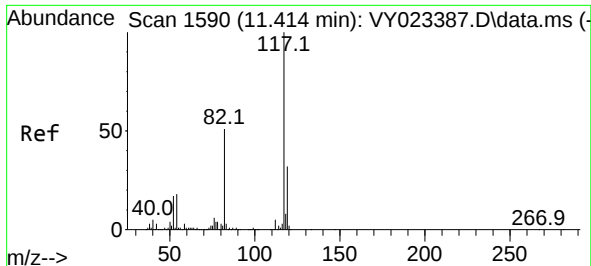
Tgt Ion: 97	Resp: 16927
Ion Ratio	Lower Upper
97 100	
83 10.8	61.8 92.6#
85 0.6	41.3 61.9#
99 0.0	48.7 73.1#



#62
4-Bromofluorobenzene
Concen: 26.898 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion: 95	Resp: 279484
Ion Ratio	Lower Upper
95 100	
174 94.1	0.0 192.8
176 90.5	0.0 187.6

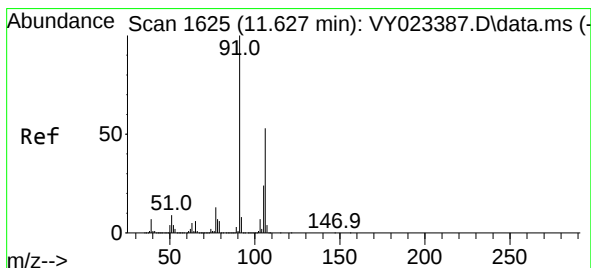
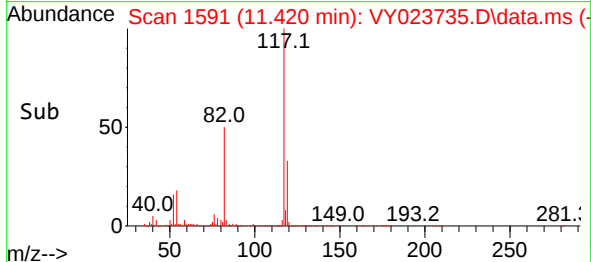
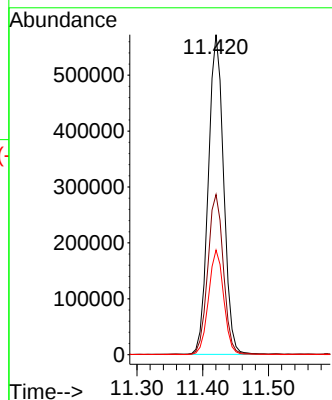
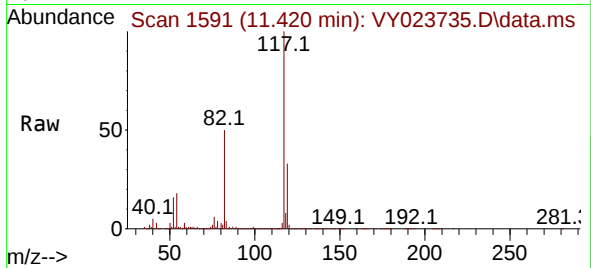




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

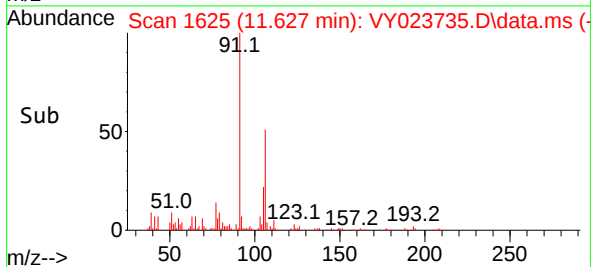
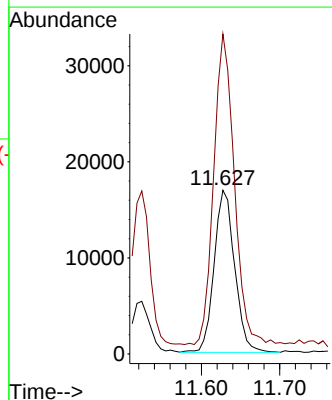
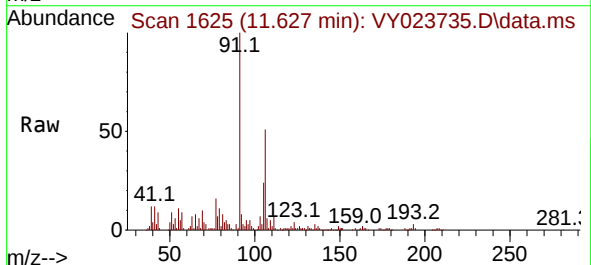
Instrument :
MSVOA_Y
ClientSampleId :
C-LAW-25-0156-0166-COMP

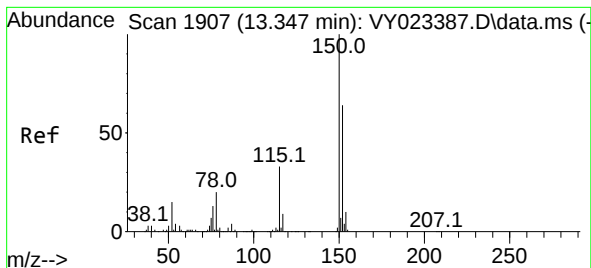
Tgt Ion:117 Resp: 927157
Ion Ratio Lower Upper
117 100
82 49.9 41.0 61.4
119 32.7 25.6 38.4



#68
m/p-Xylenes
Concen: 2.347 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion:106 Resp: 30723
Ion Ratio Lower Upper
106 100
91 192.3 152.6 229.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1908

Delta R.T. 0.006 min

Lab File: VY023735.D

Acq: 11 Nov 2025 13:17

Instrument :

MSVOA_Y

ClientSampleId :

C-LAW-25-0156-0166-COMP

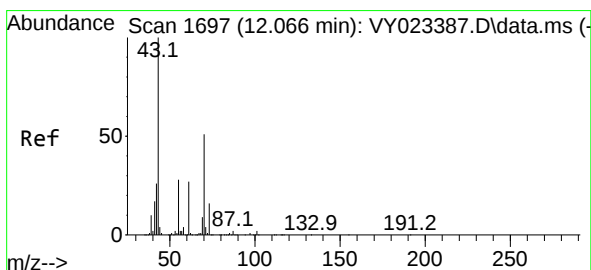
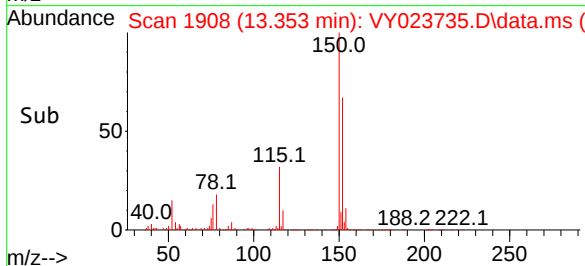
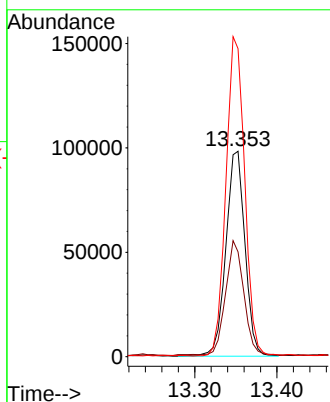
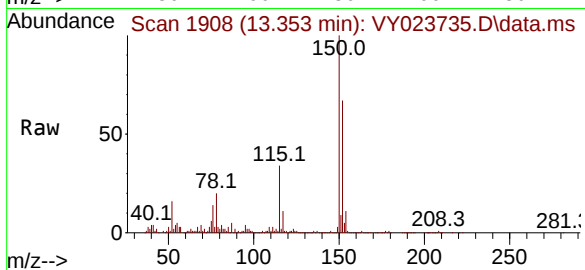
Tgt Ion:152 Resp: 158147

Ion Ratio Lower Upper

152 100

115 53.5 27.1 81.2

150 152.8 0.0 347.4



#74

N-ethyl acetate

Concen: 1.761 ug/l

RT: 12.054 min Scan# 1695

Delta R.T. -0.012 min

Lab File: VY023735.D

Acq: 11 Nov 2025 13:17

Tgt Ion: 43 Resp: 3297

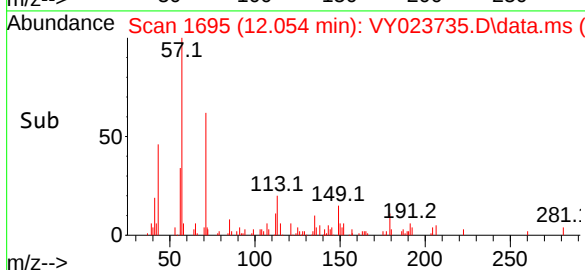
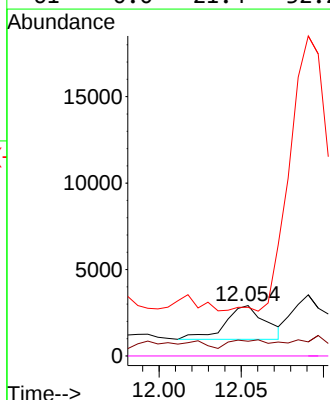
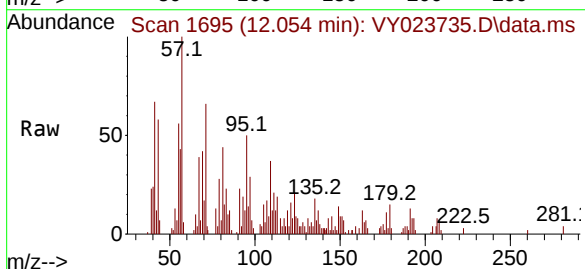
Ion Ratio Lower Upper

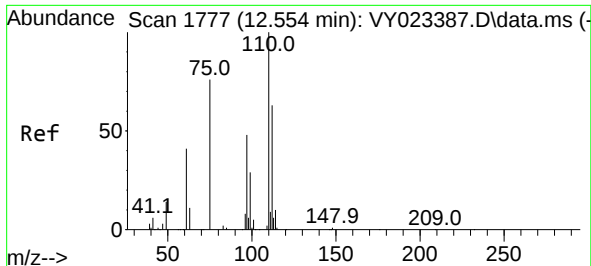
43 100

70 30.1 41.1 61.7#

55 0.0 23.0 34.6#

61 0.0 21.4 32.2#

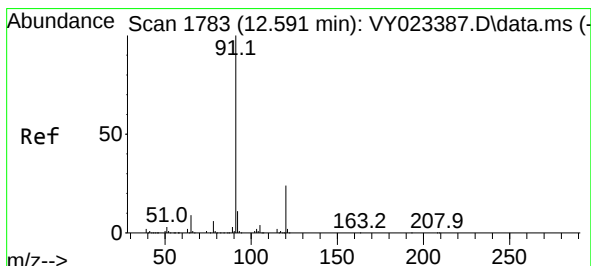
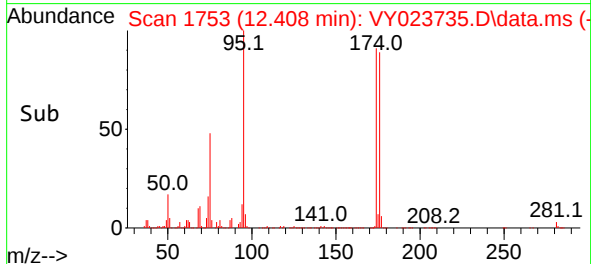
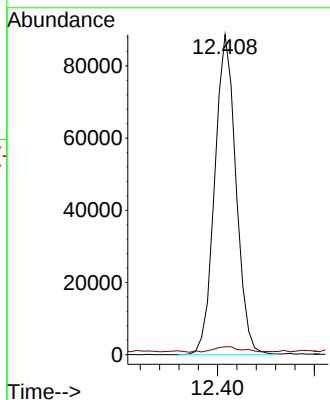
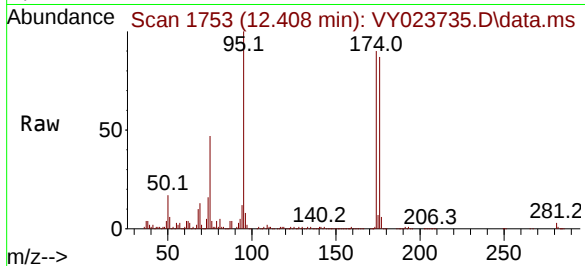




#76
1,2,3-Trichloropropane
Concen: 96.977 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

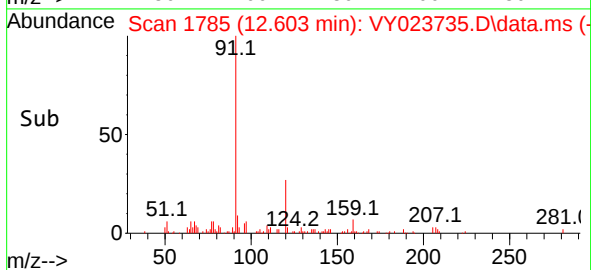
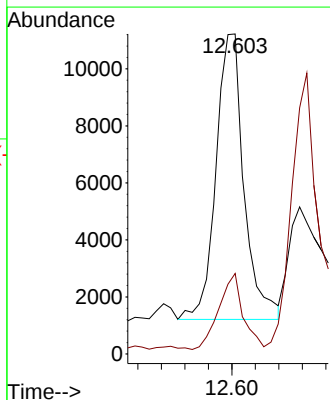
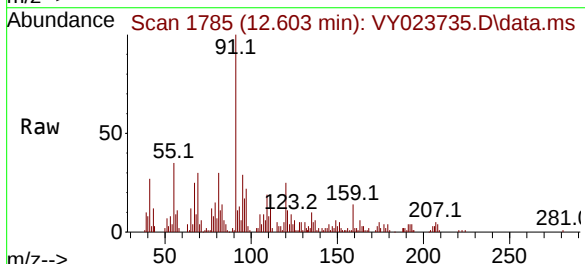
Instrument :
MSVOA_Y
ClientSampleId :
C-LAW-25-0156-0166-COMP

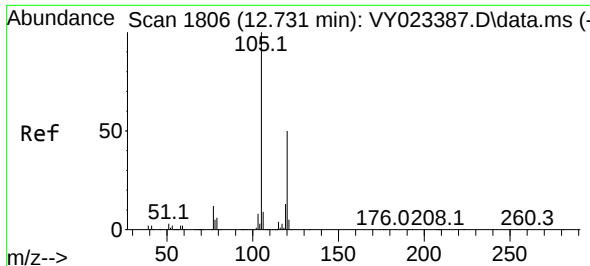
Tgt Ion: 75 Resp: 135310
Ion Ratio Lower Upper
75 100
77 2.4 0.0 0.0#



#78
n-propylbenzene
Concen: 1.375 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.012 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion: 91 Resp: 16589
Ion Ratio Lower Upper
91 100
120 23.1 12.3 36.8

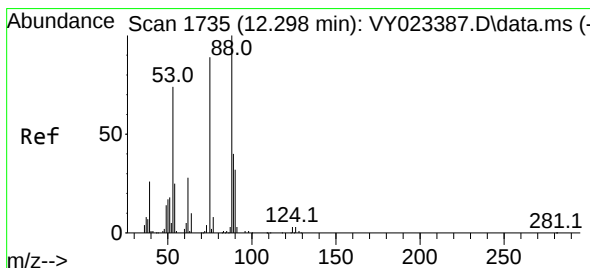
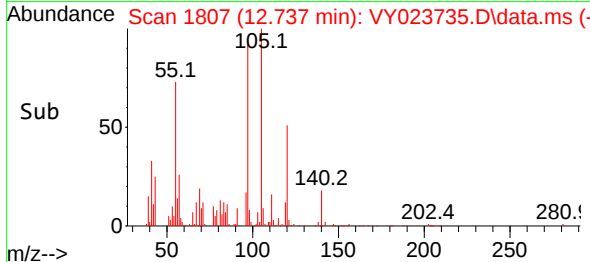
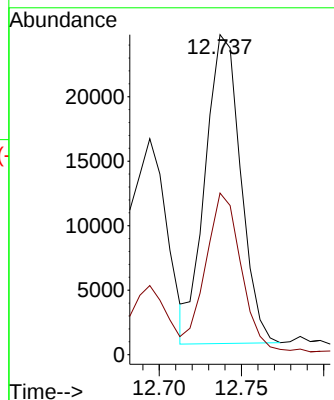
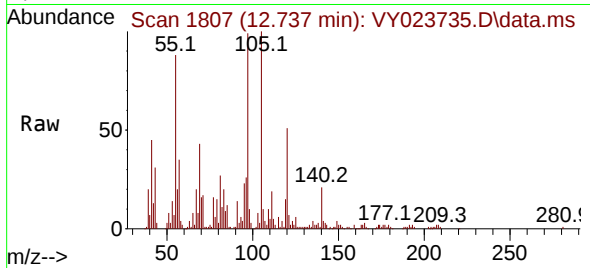




#80
 1,3,5-Trimethylbenzene
 Concen: 4.260 ug/l
 RT: 12.737 min Scan# 1806
 Delta R.T. 0.006 min
 Lab File: VY023735.D
 Acq: 11 Nov 2025 13:17

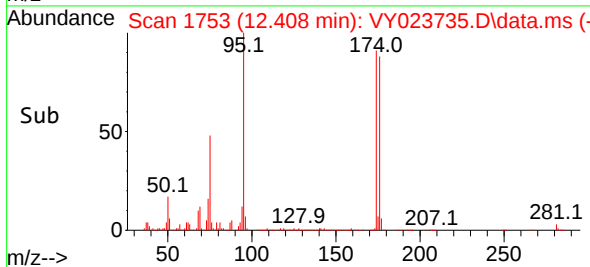
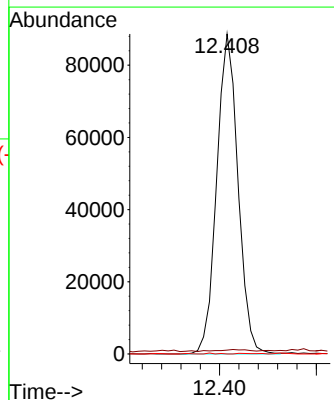
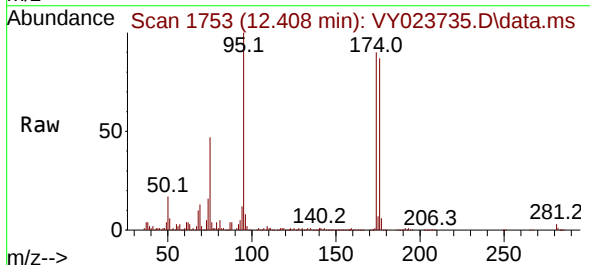
Instrument : MSVOA_Y
 ClientSampleId : C-LAW-25-0156-0166-COMP

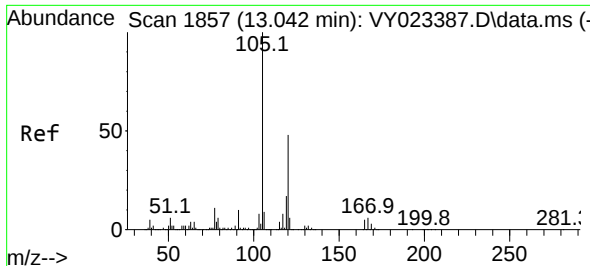
Tgt Ion:105 Resp: 35879
 Ion Ratio Lower Upper
 105 100
 120 51.5 25.4 76.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 237.806 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.110 min
 Lab File: VY023735.D
 Acq: 11 Nov 2025 13:17

Tgt Ion: 75 Resp: 135310
 Ion Ratio Lower Upper
 75 100
 53 0.8 68.6 102.8#
 89 0.2 39.0 58.4#

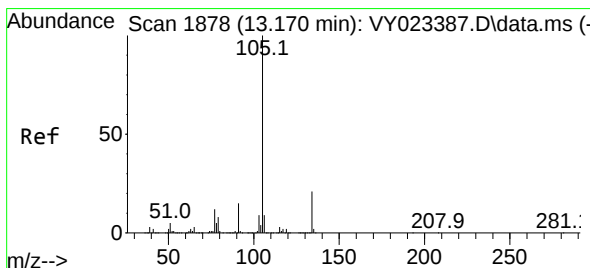
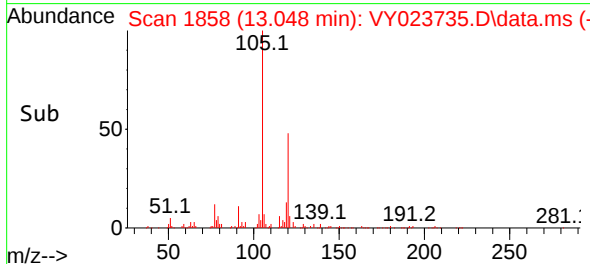
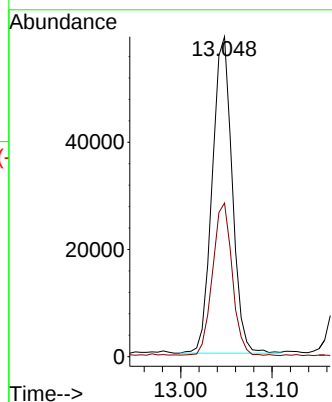
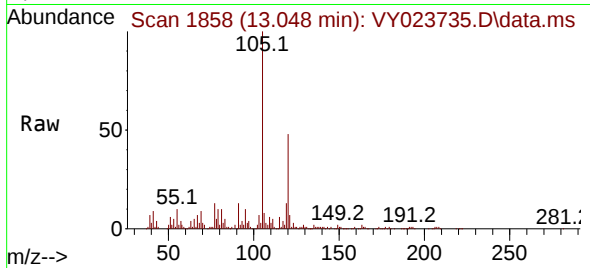




#84
1,2,4-Trimethylbenzene
Concen: 10.623 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

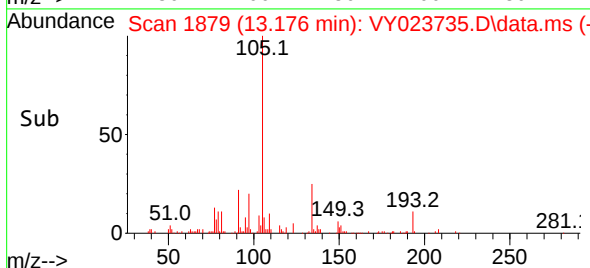
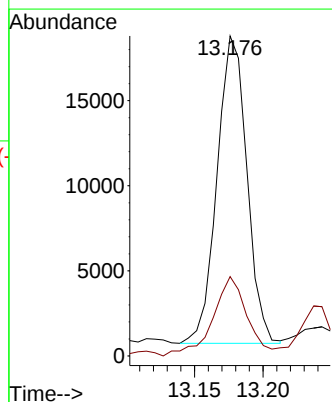
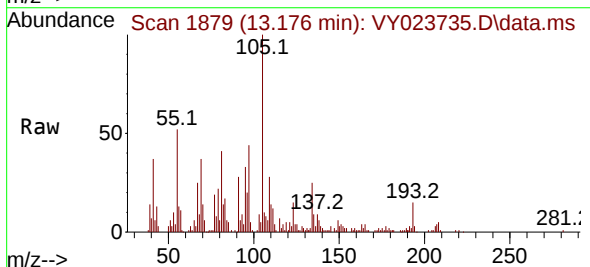
Instrument :
MSVOA_Y
ClientSampleId :
C-LAW-25-0156-0166-COMP

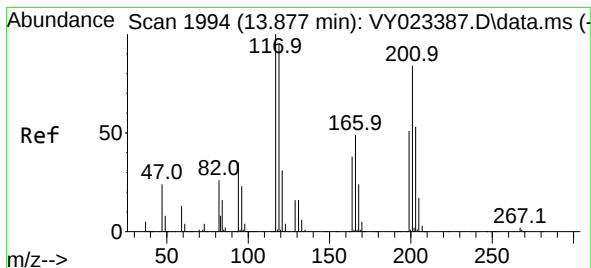
Tgt Ion:105 Resp: 89285
Ion Ratio Lower Upper
105 100
120 47.6 23.8 71.2



#85
sec-Butylbenzene
Concen: 2.452 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023735.D
Acq: 11 Nov 2025 13:17

Tgt Ion:105 Resp: 27354
Ion Ratio Lower Upper
105 100
134 29.4 10.7 32.1





#90

Hexachloroethane

Concen: 1.385 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.018 min

Lab File: VY023735.D

Acq: 11 Nov 2025 13:17

Instrument :

MSVOA_Y

ClientSampleId :

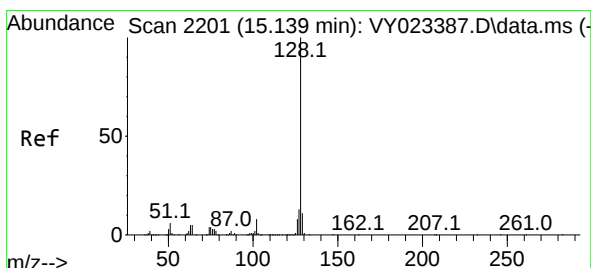
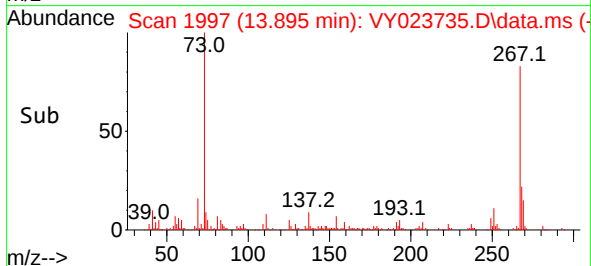
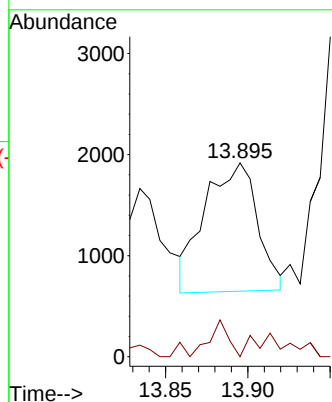
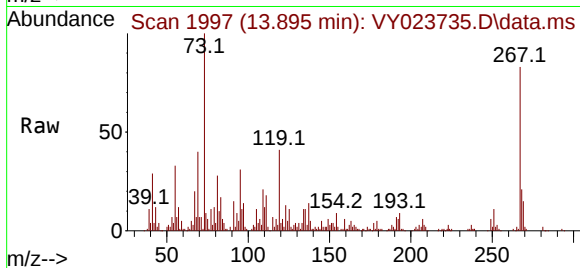
C-LAW-25-0156-0166-COMP

Tgt Ion:117 Resp: 2829

Ion Ratio Lower Upper

117 100

201 10.1 43.8 131.4#



#95

Naphthalene

Concen: 1.077 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. 0.012 min

Lab File: VY023735.D

Acq: 11 Nov 2025 13:17

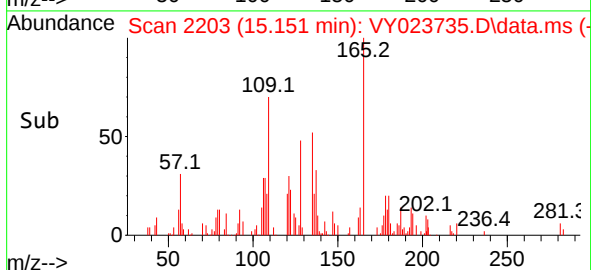
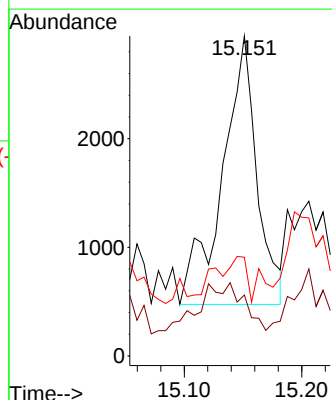
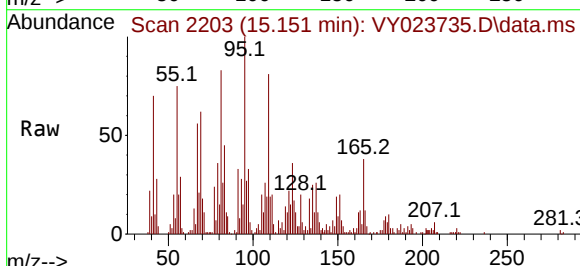
Tgt Ion:128 Resp: 5058

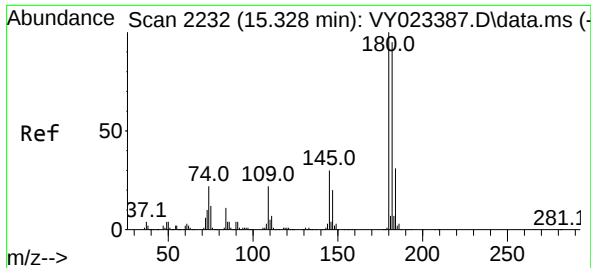
Ion Ratio Lower Upper

128 100

127 22.1 10.4 15.6#

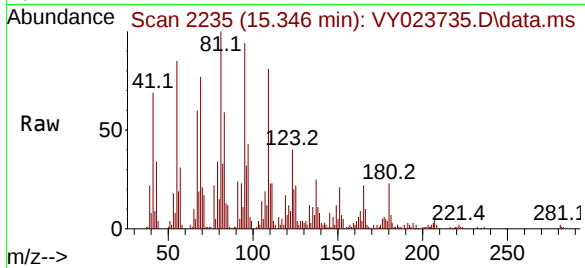
129 15.1 8.9 13.3#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.327 ug/l
 RT: 15.346 min Scan# 21
 Delta R.T. 0.018 min
 Lab File: VY023735.D
 Acq: 11 Nov 2025 13:17

Instrument :
 MSVOA_Y
 ClientSampleId :
 C-LAW-25-0156-0166-COMP



Tgt Ion:180 Resp: 3390
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.9 143.8#
 145 0.0 15.3 45.9#

