

Data Path : Z:\voasrv\HPCHEM1\MSVOA_R\Data\VR082025\
 Data File : VR026747.D
 Acq On : 20 Aug 2025 17:42
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5mL/MSVOA_R/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

Quant Time: Aug 21 09:02:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_R\methods\82R082025W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 21 08:59:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.388	168	2360577	50.000	ug/l	0.00
33) 1,4-Difluorobenzene	8.389	114	3992398	50.000	ug/l	0.00
62) Chlorobenzene-d5	11.563	117	2654659	50.000	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	13.758	152	757564	50.000	ug/l	0.00

System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.770	65	1539506	51.932	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 103.860%	
34) Dibromofluoromethane	7.298	113	1256444	48.252	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.500%	
49) Toluene-d8	10.074	98	4186651	47.961	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 95.920%	
61) 4-Bromofluorobenzene	12.692	95	865856	34.958	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 69.920%#	

Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.821	85	7956	0.357	ug/l	74
6) Chloroethane	2.562	64	631	Below Cal	#	79
7) Trichlorofluoromethane	2.883	101	23849	0.335	ug/l #	76
9) 1,1,2-Trichlorotrifluo...	3.531	101	6549	0.230	ug/l #	68
13) Acrolein	3.390	56	773	Below Cal	#	1
15) Acrylonitrile	4.660	53	18820	0.966	ug/l #	33
16) Acetone	3.614	43	11151	0.711	ug/l #	73
17) Carbon Disulfide	3.804	76	48538	0.648	ug/l #	95
20) Methylene Chloride	4.259	84	13499	0.403	ug/l #	54
21) trans-1,2-Dichloroethene	4.709	96	10030	0.311	ug/l	84
23) Vinyl Acetate	5.559	43	15680	Below Cal	#	72
25) 2-Butanone	6.515	43	23302	0.956	ug/l #	72
30) Cyclohexane	7.385	56	72415	1.193	ug/l #	27
35) 1,1-Dichloropropene	7.520	75	19791	0.488	ug/l #	60
37) Carbon Tetrachloride	7.388	117	252624	6.923	ug/l #	17
38) Methylcyclohexane	8.941	83	24166	0.476	ug/l	96
41) 1,2-Dichloroethane	7.382	62	12612	0.365	ug/l #	1
43) Trichloroethene	8.665	130	14757	0.543	ug/l	79
45) Dibromomethane	9.082	93	4176	0.221	ug/l #	79
48) 1,4-Dioxane	9.085	88	3472	7.529	ug/l #	69
50) 4-Methyl-2-Pentanone	9.958	43	65983	0.574	ug/l #	71
51) Toluene	10.144	92	19075	0.268	ug/l #	74
57) 2-Chloroethyl Vinyl ether	9.631	63	650	19.747	ug/l	99
58) 2-Hexanone	10.828	43	90124	3.626	ug/l	87
63) Tetrachloroethene	10.677	164	7005	0.376	ug/l #	70
64) Chlorobenzene	11.592	112	30330	0.513	ug/l	96
66) Ethyl Benzene	11.688	91	44299	0.449	ug/l #	65
67) m/p-Xylenes	11.807	106	36681	0.888	ug/l #	68
68) o-Xylene	12.176	106	12246	0.292	ug/l	94
69) Styrene	12.198	104	20172	0.327	ug/l	95
72) Isopropylbenzene	12.519	105	39193	0.477	ug/l	93
73) N-amyl acetate	12.326	43	36999	1.246	ug/l	98
74) 1,1,2,2-Tetrachloroethane	12.801	83	6483	0.275	ug/l	69
75) 1,2,3-Trichloropropane	12.692	75	451971	24.203	ug/l #	100
76) Bromobenzene	12.830	156	6155	0.342	ug/l #	48
77) n-propylbenzene	12.910	91	63677	0.722	ug/l	95

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

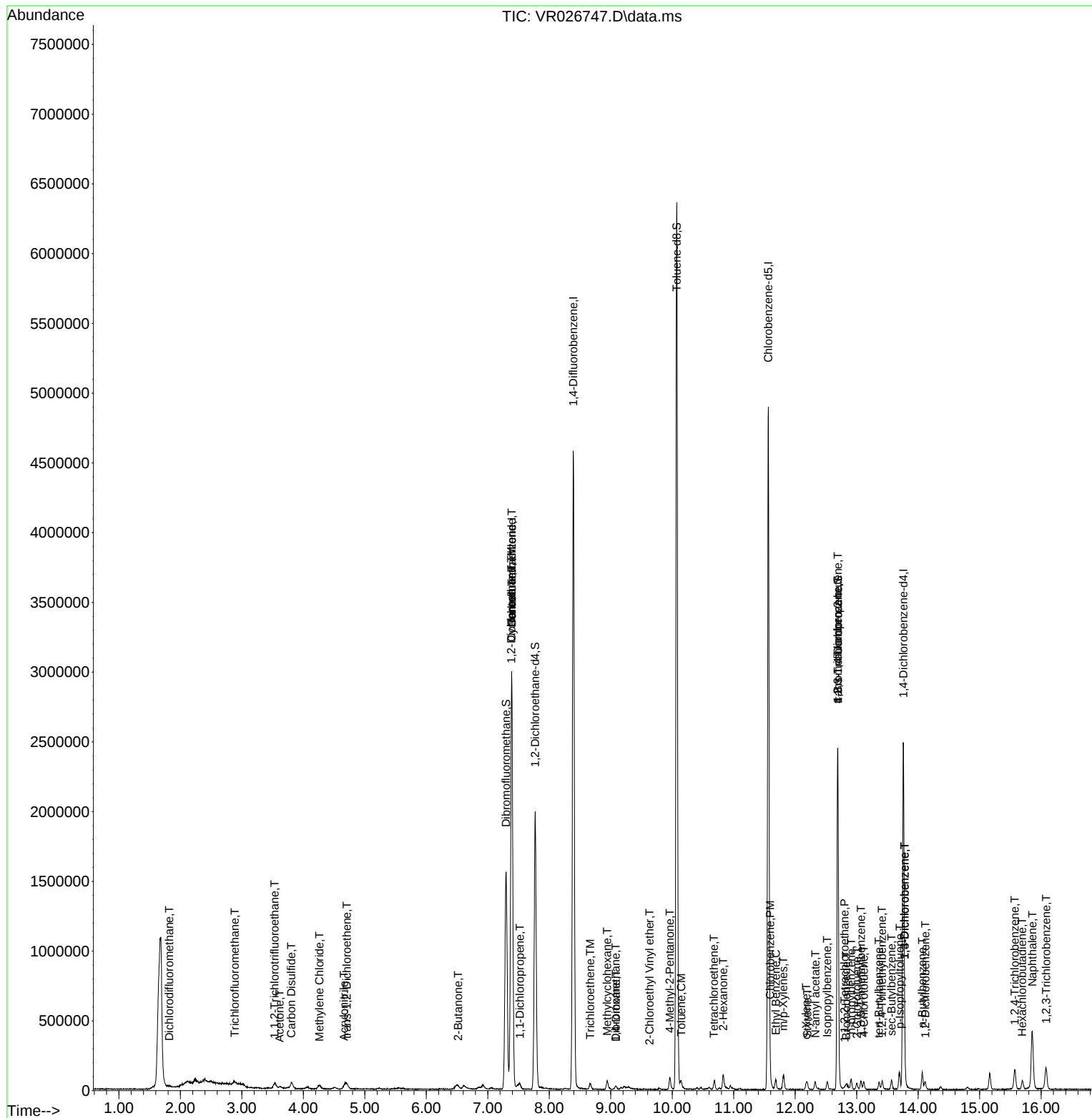
78) 2-Chlorotoluene	13.004	91	27665	0.531	ug/l	98
79) 1,3,5-Trimethylbenzene	13.068	105	33639	0.548	ug/l	95
80) trans-1,4-Dichloro-2-b...	12.692	75	451971	59.638	ug/l #	14
81) 4-Chlorotoluene	13.116	91	34304	0.719	ug/l	93
82) tert-Butylbenzene	13.360	119	28635	0.499	ug/l	94
83) 1,2,4-Trimethylbenzene	13.411	105	32940	0.588	ug/l	88
84) sec-Butylbenzene	13.565	105	52587	0.712	ug/l	94
85) p-Isopropyltoluene	13.700	119	41447	0.722	ug/l	99
86) 1,3-Dichlorobenzene	13.780	146	30623	1.146	ug/l	79
87) 1,4-Dichlorobenzene	13.780	146	30623	1.189	ug/l	81
88) n-Butylbenzene	14.066	91	76366	1.863	ug/l	97
90) 1,2-Dichlorobenzene	14.117	146	24346	1.084	ug/l	88
91) 1,2-Dibromo-3-Chloropr...	14.801	75	4562	Below Cal	#	54
92) 1,2,4-Trichlorobenzene	15.571	180	58355	3.956	ug/l	99
93) Hexachlorobutadiene	15.693	225	12125	2.494	ug/l	94
94) Naphthalene	15.856	128	527175	12.500	ug/l	98
95) 1,2,3-Trichlorobenzene	16.081	180	69845	4.880	ug/l	94

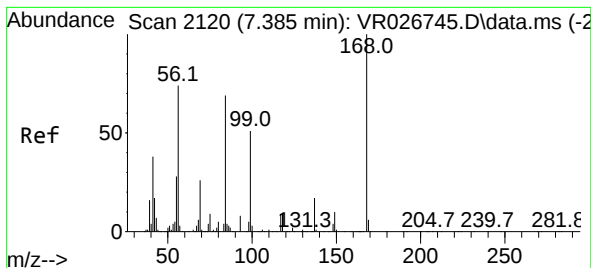
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.388 min Scan# 2120

Delta R.T. 0.003 min

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MSVOA_R

ClientSampleId :

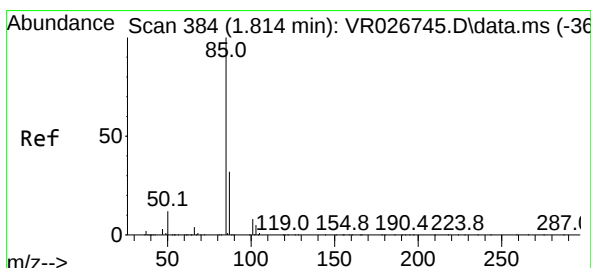
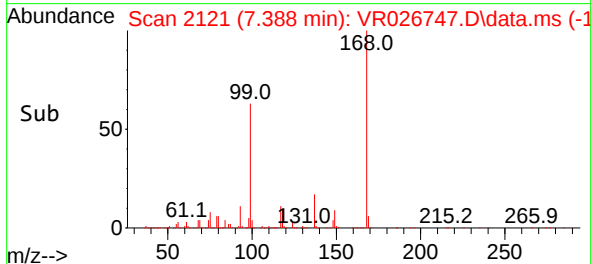
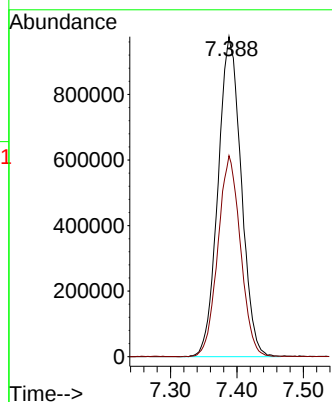
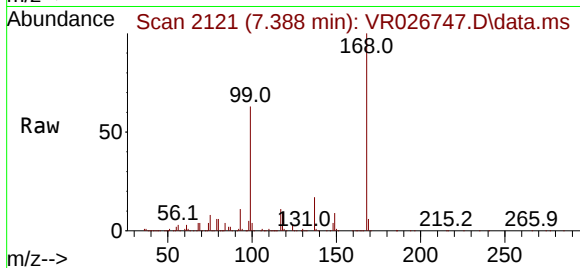
VIBLK

Tgt Ion:168 Resp: 2360577

Ion Ratio Lower Upper

168 100

99 62.8 47.1 70.7



#2

Dichlorodifluoromethane

Concen: 0.357 ug/l

RT: 1.821 min Scan# 386

Delta R.T. 0.007 min

Lab File: VR026747.D

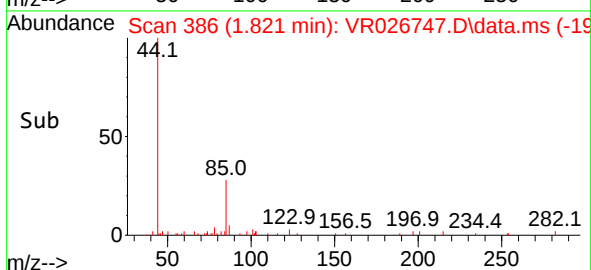
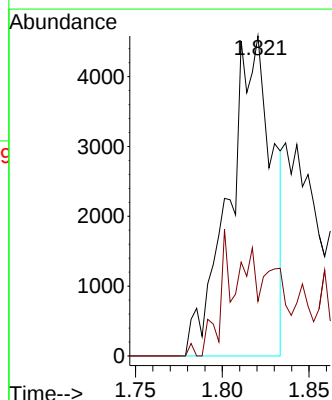
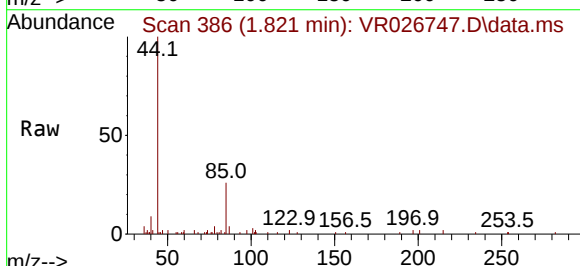
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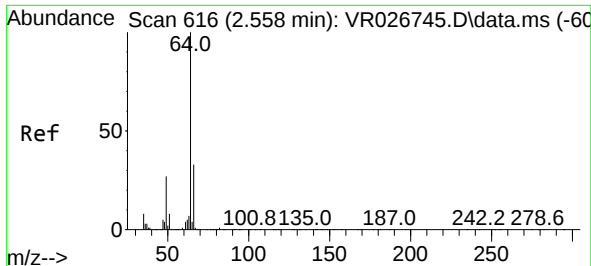
Tgt Ion: 85 Resp: 7956

Ion Ratio Lower Upper

85 100

87 17.9 16.1 48.2

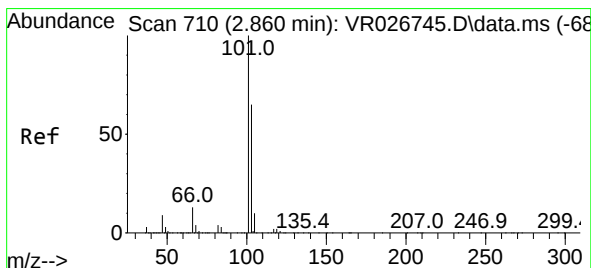
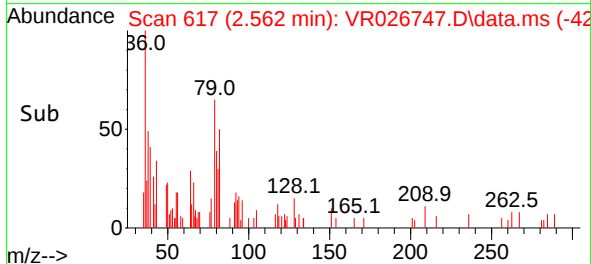
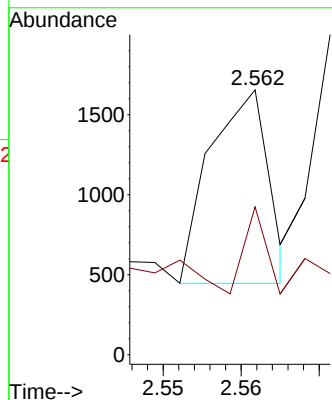
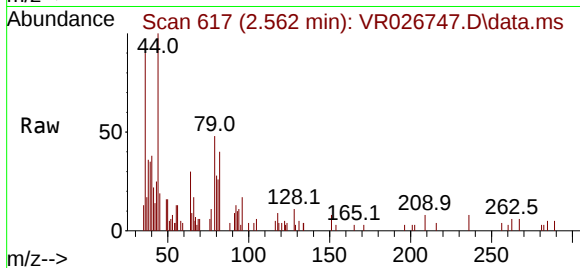




#6
Chloroethane
Concen: Below Cal
RT: 2.562 min Scan# 616
Delta R.T. 0.004 min
Lab File: VR026747.D
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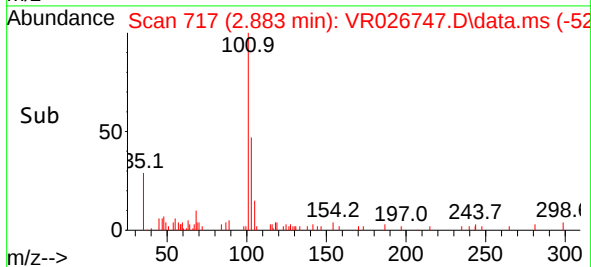
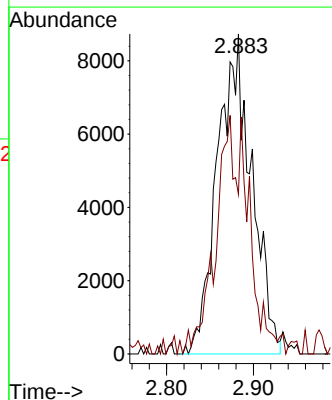
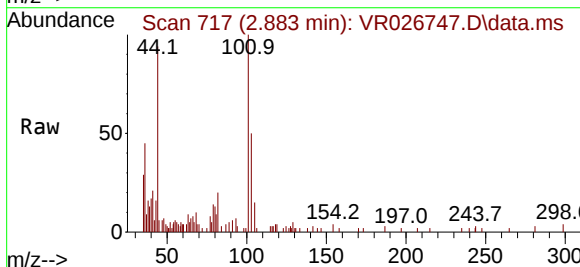
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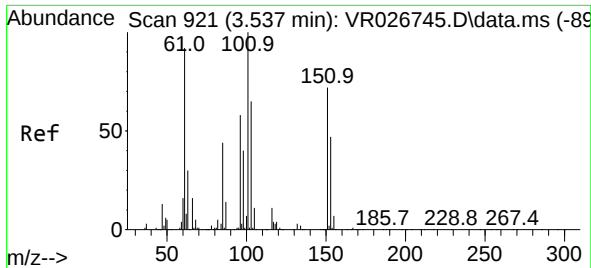
Tgt Ion: 64 Resp: 631
Ion Ratio Lower Upper
64 100
66 45.1 26.6 40.0#



#7
Trichlorofluoromethane
Concen: 0.335 ug/l
RT: 2.883 min Scan# 717
Delta R.T. 0.023 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 101 Resp: 23849
Ion Ratio Lower Upper
101 100
103 45.7 51.8 77.8#

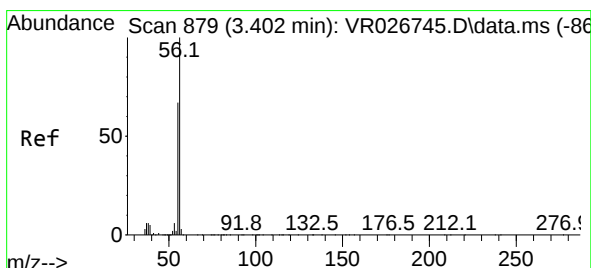
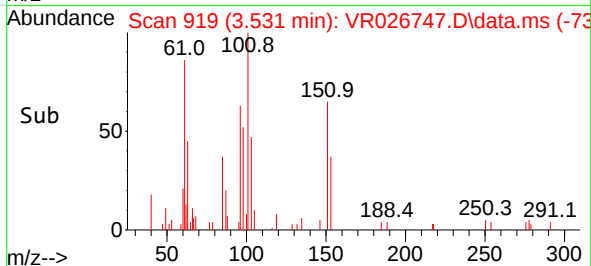
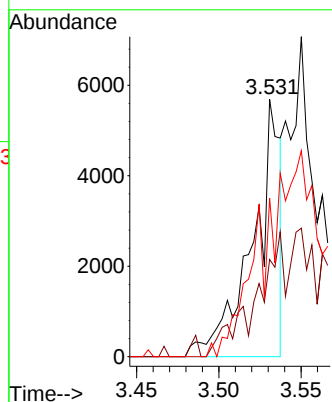
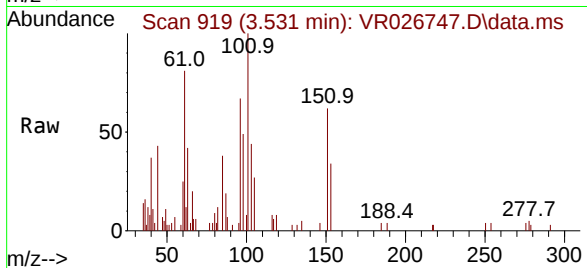




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.230 ug/l
RT: 3.531 min Scan# 919
Delta R.T. -0.006 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

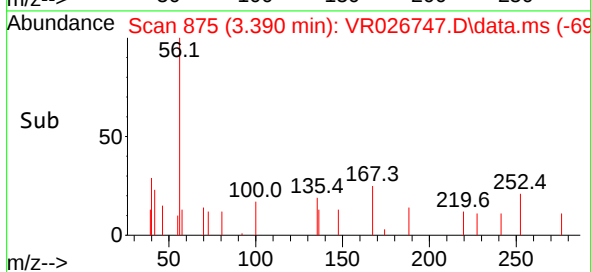
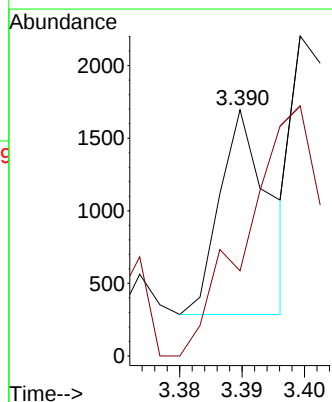
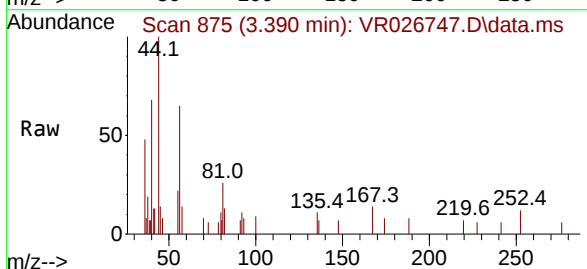
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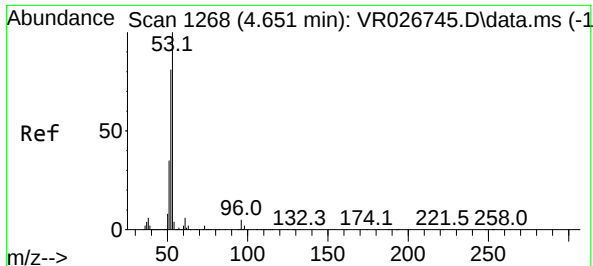
Tgt Ion:101 Resp: 6549
Ion Ratio Lower Upper
101 100
85 31.4 35.4 53.0#
151 38.5 57.2 85.8#



#13
Acrolein
Concen: Below Cal
RT: 3.390 min Scan# 875
Delta R.T. -0.012 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 56 Resp: 773
Ion Ratio Lower Upper
56 100
55 219.9 56.9 85.3#

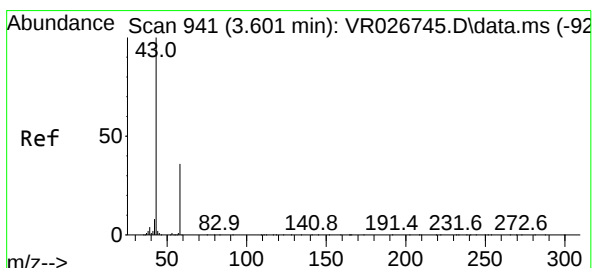
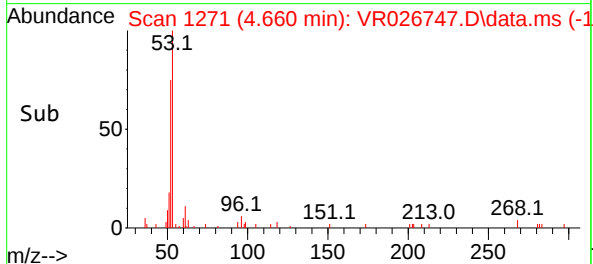
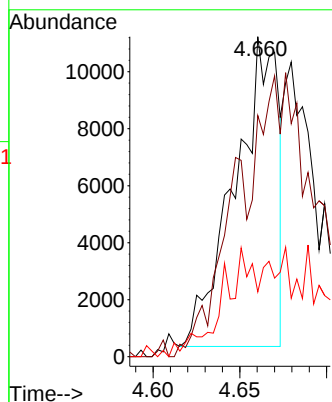
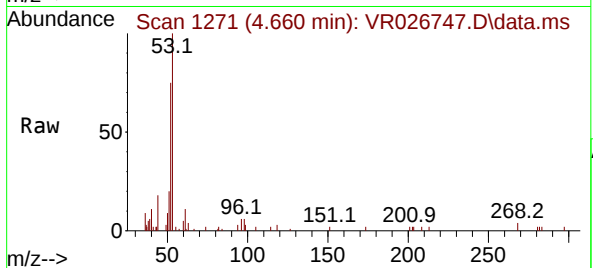




#15
Acrylonitrile
Concen: 0.966 ug/l
RT: 4.660 min Scan# 11
Delta R.T. 0.009 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

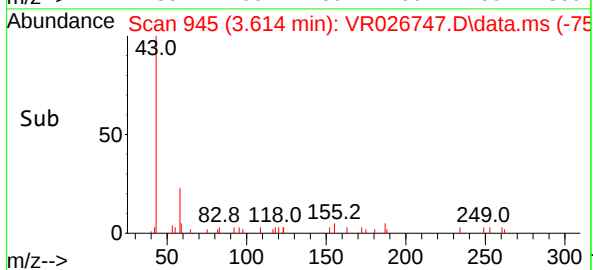
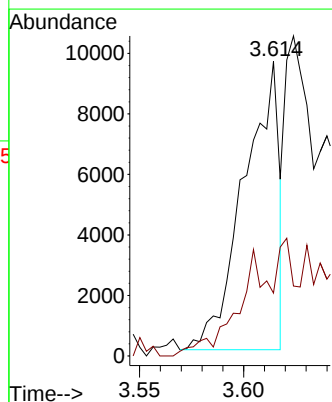
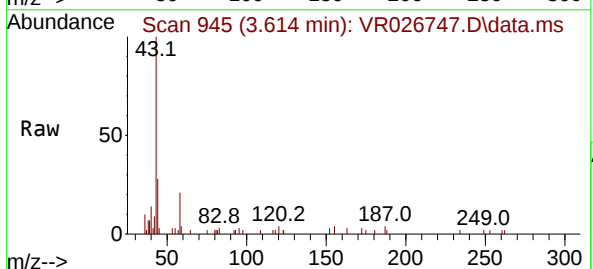
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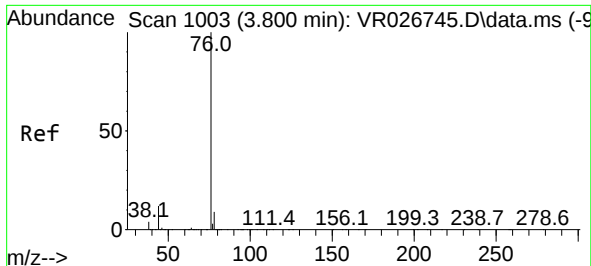
Tgt Ion: 53 Resp: 18820
Ion Ratio Lower Upper
53 100
52 19.9 65.7 98.5#
51 0.0 28.4 42.6#



#16
Acetone
Concen: 0.711 ug/l
RT: 3.614 min Scan# 945
Delta R.T. 0.013 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 43 Resp: 11151
Ion Ratio Lower Upper
43 100
58 20.2 28.6 43.0#

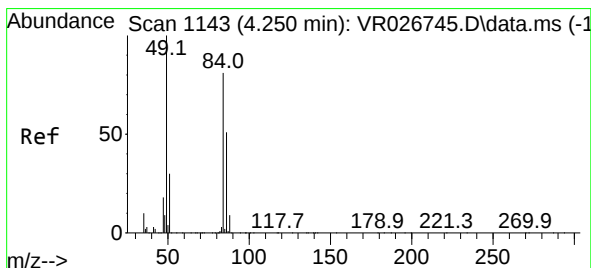
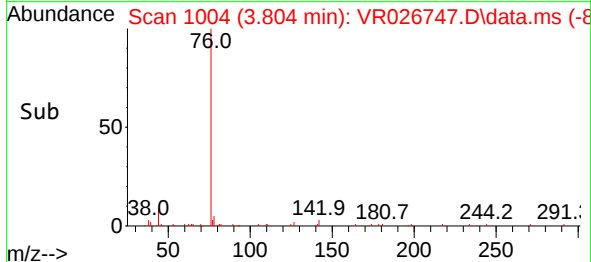
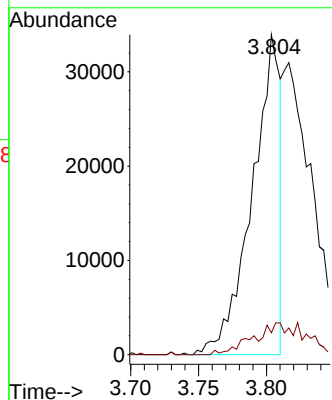
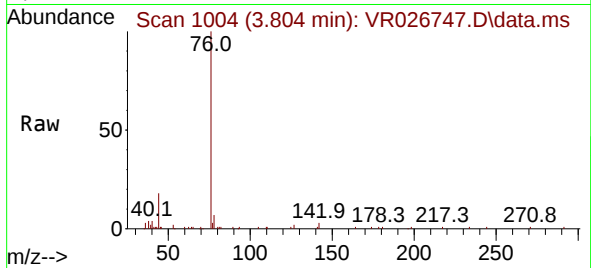




#17
Carbon Disulfide
Concen: 0.648 ug/l
RT: 3.804 min Scan# 1004
Delta R.T. 0.003 min
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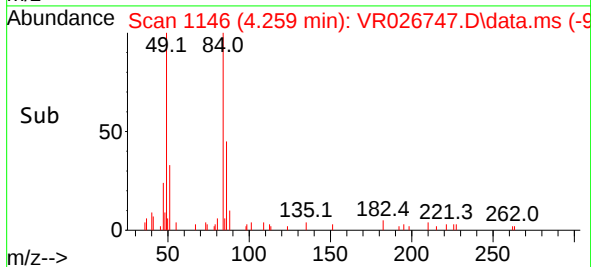
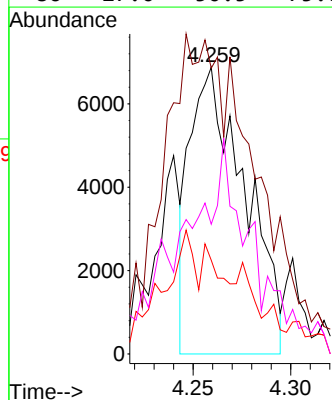
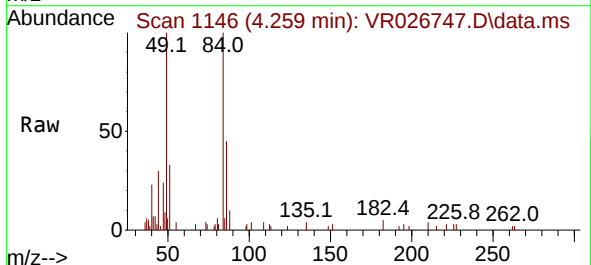
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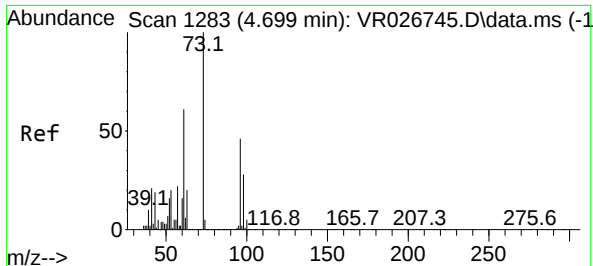
Tgt Ion: 76 Resp: 48538
Ion Ratio Lower Upper
76 100
78 6.8 7.0 10.6#



#20
Methylene Chloride
Concen: 0.403 ug/l
RT: 4.259 min Scan# 1146
Delta R.T. 0.010 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 84 Resp: 13499
Ion Ratio Lower Upper
84 100
49 60.3 98.8 148.2#
51 28.3 29.4 44.2#
86 27.0 50.5 75.7#

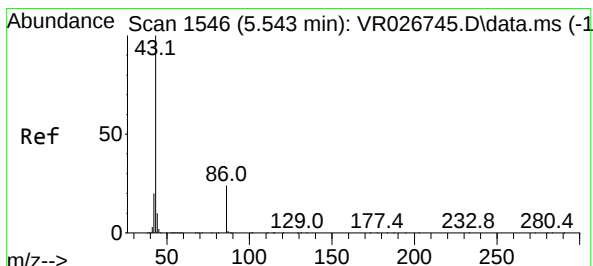
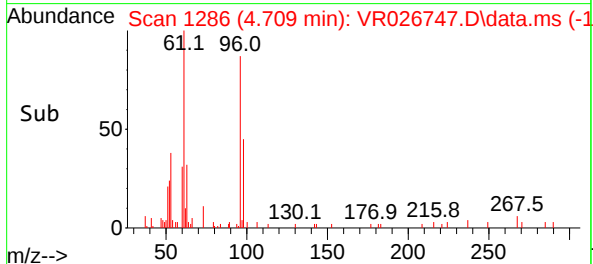
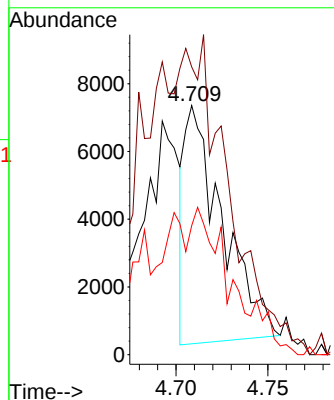
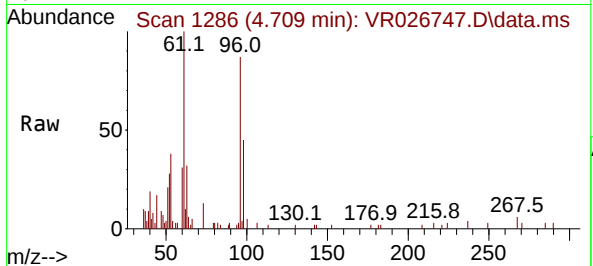




#21
trans-1,2-Dichloroethene
Concen: 0.311 ug/l
RT: 4.709 min Scan# 11
Delta R.T. 0.010 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

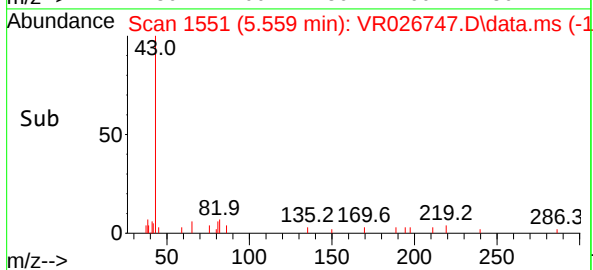
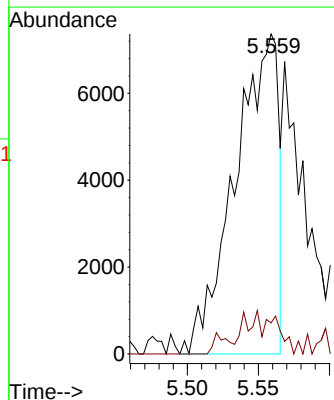
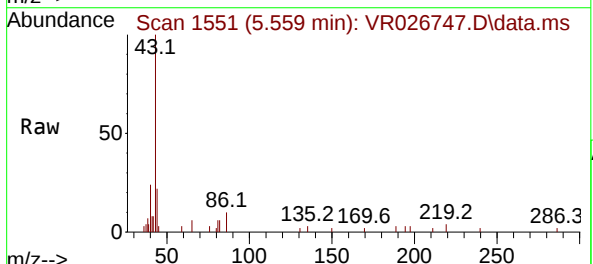
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ClientSampleId :
VIBLK

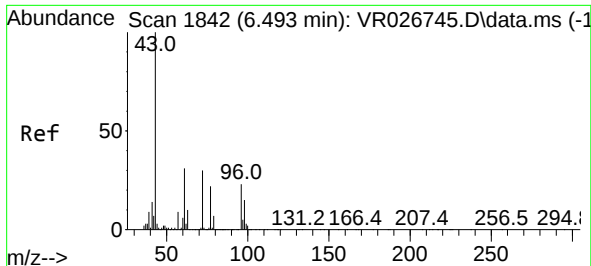
Tgt Ion: 96 Resp: 10030
Ion Ratio Lower Upper
96 100
61 112.9 107.1 160.7
98 52.3 49.7 74.5



#23
Vinyl Acetate
Concen: Below Cal
RT: 5.559 min Scan# 1551
Delta R.T. 0.016 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 43 Resp: 15680
Ion Ratio Lower Upper
43 100
86 9.7 18.9 28.3#





#25

2-Butanone

Concen: 0.956 ug/l

RT: 6.515 min Scan# 11

Delta R.T. 0.022 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

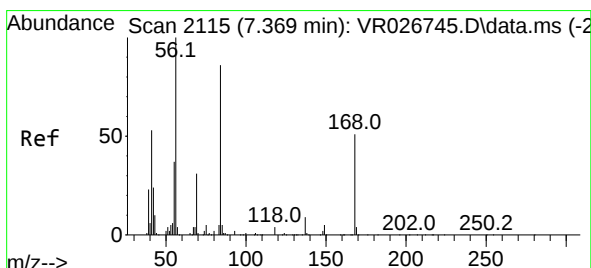
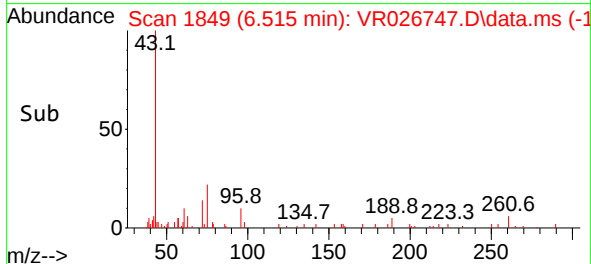
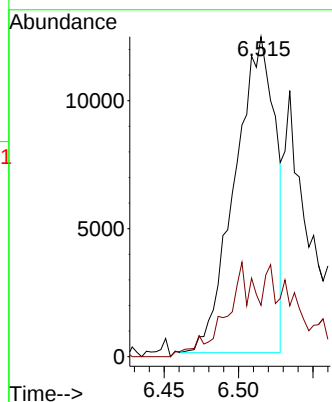
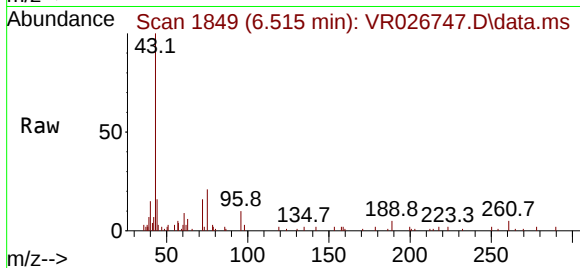
VIBLK

Tgt Ion: 43 Resp: 23302

Ion Ratio Lower Upper

43 100

72 14.6 23.8 35.8#



#30

Cyclohexane

Concen: 1.193 ug/l

RT: 7.385 min Scan# 2120

Delta R.T. 0.016 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

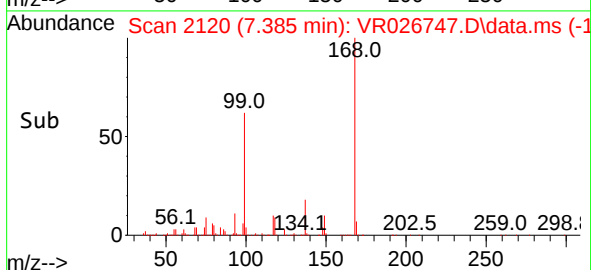
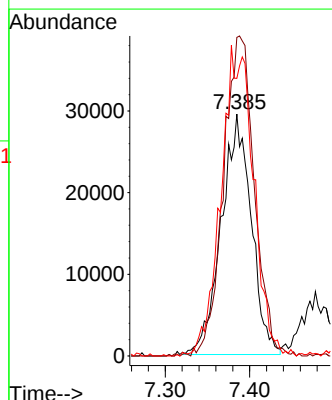
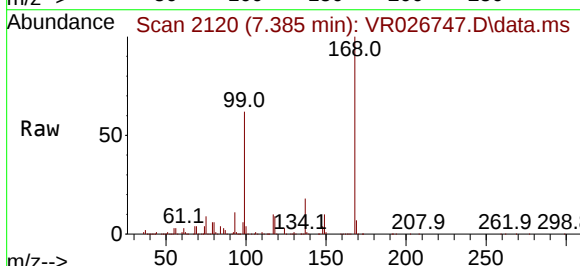
Tgt Ion: 56 Resp: 72415

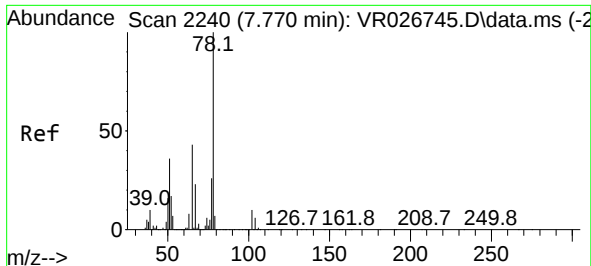
Ion Ratio Lower Upper

56 100

69 132.5 24.6 37.0#

84 115.4 68.7 103.1#

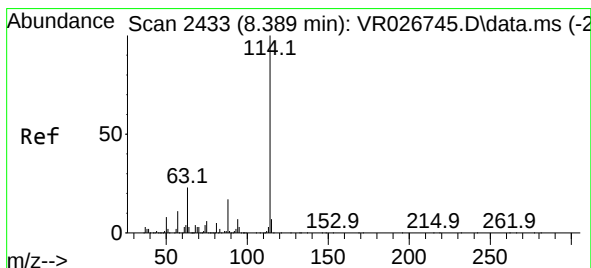
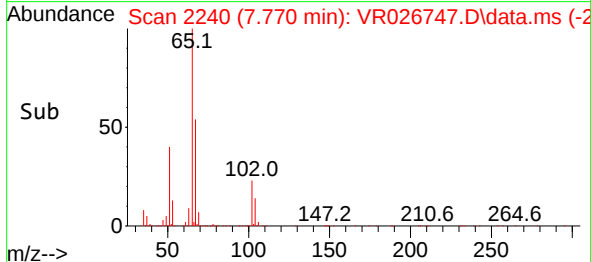
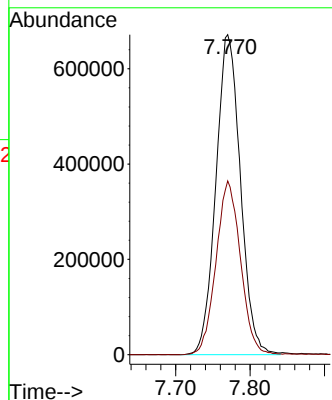
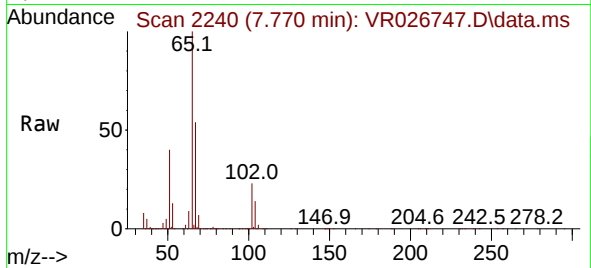




#32
 1,2-Dichloroethane-d4
 Concen: 51.932 ug/l
 RT: 7.770 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VR026747.D
 Acq: 20 Aug 2025 17:42

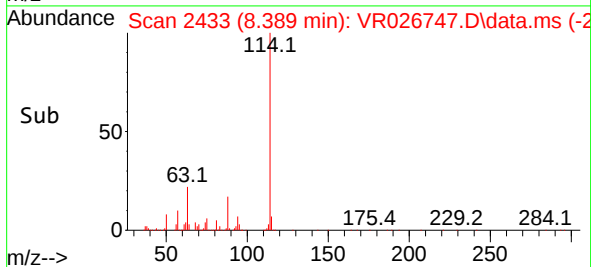
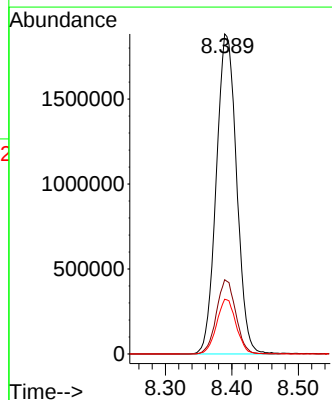
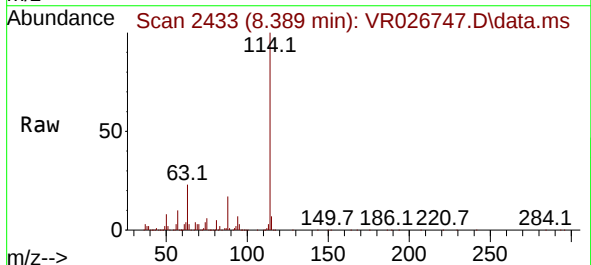
Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

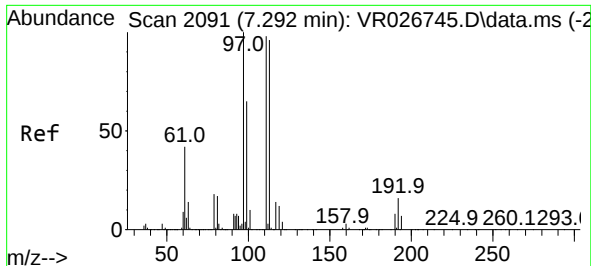
Tgt Ion: 65 Resp: 1539506
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 111.4



#33
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.389 min Scan# 2433
 Delta R.T. 0.000 min
 Lab File: VR026747.D
 Acq: 20 Aug 2025 17:42

Tgt Ion: 114 Resp: 3992398
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 45.8
 88 17.1 0.0 34.8

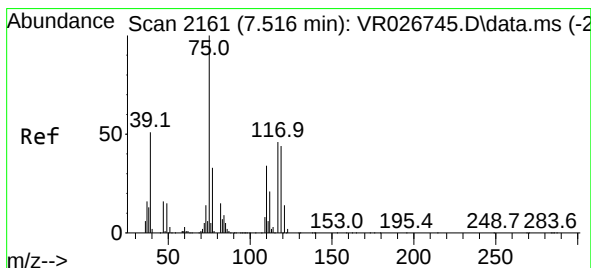
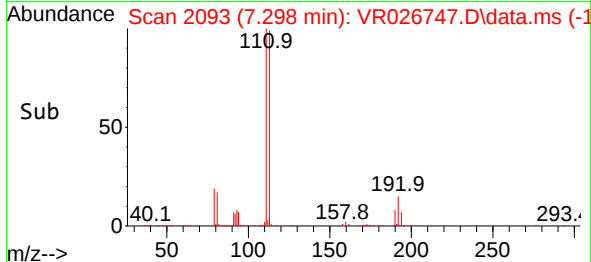
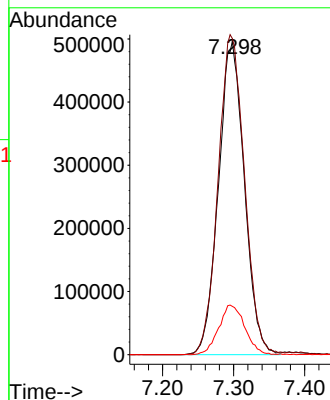
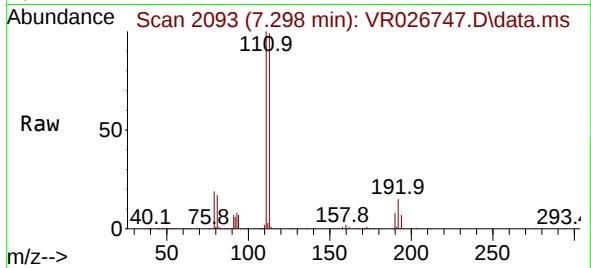




#34
 Dibromofluoromethane
 Concen: 48.252 ug/l
 RT: 7.298 min Scan# 2093
 Delta R.T. 0.007 min
 Lab File: VR026747.D
 Acq: 20 Aug 2025 17:42

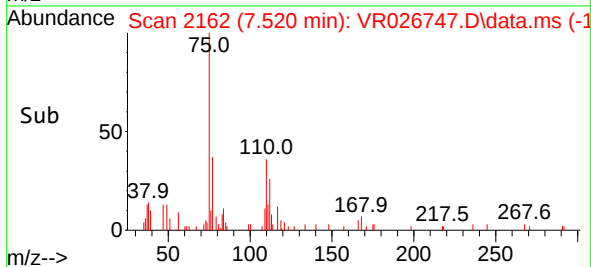
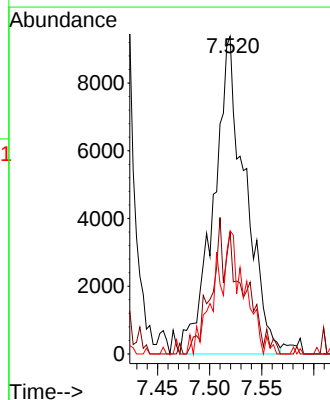
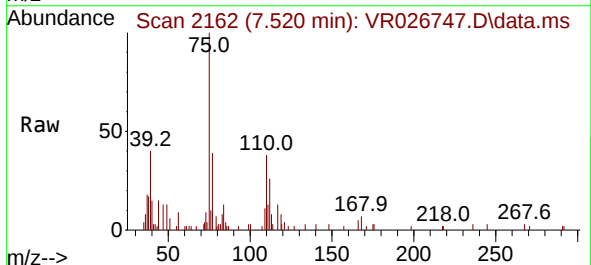
Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

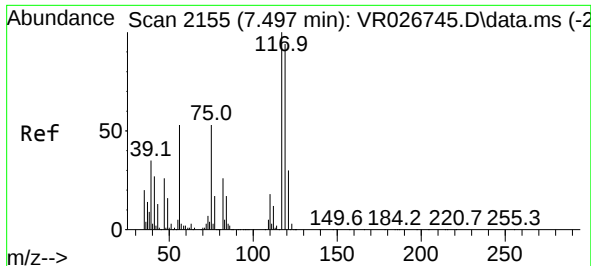
Tgt Ion:113 Resp: 1256444
 Ion Ratio Lower Upper
 113 100
 111 104.1 82.8 124.2
 192 16.0 12.9 19.3



#35
 1,1-Dichloropropene
 Concen: 0.488 ug/l
 RT: 7.520 min Scan# 2162
 Delta R.T. 0.003 min
 Lab File: VR026747.D
 Acq: 20 Aug 2025 17:42

Tgt Ion: 75 Resp: 19791
 Ion Ratio Lower Upper
 75 100
 110 0.0 17.3 52.0#
 77 22.0 25.1 37.7#

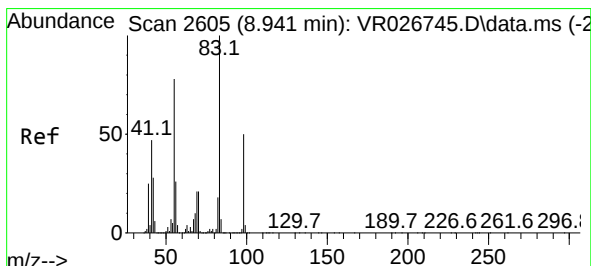
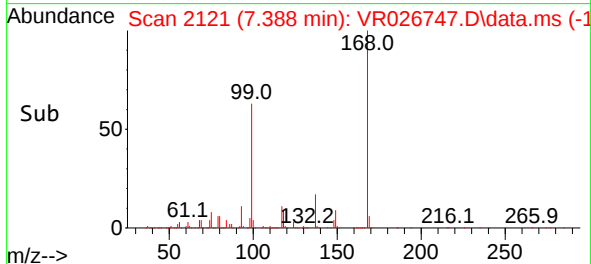
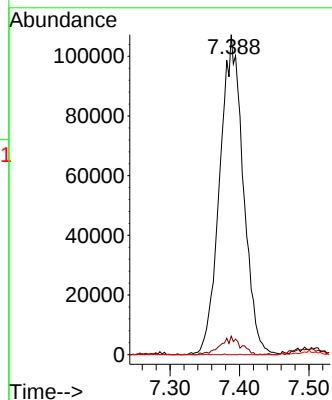
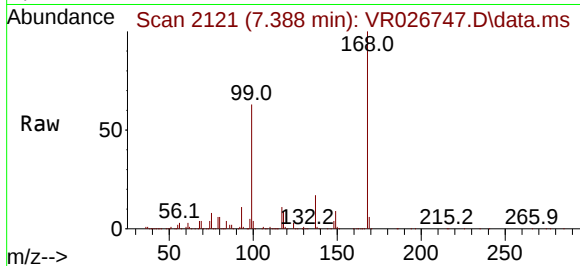




#37
Carbon Tetrachloride
Concen: 6.923 ug/l
RT: 7.388 min Scan# 2155
Delta R.T. -0.109 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

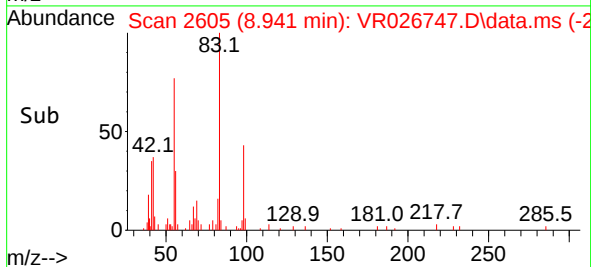
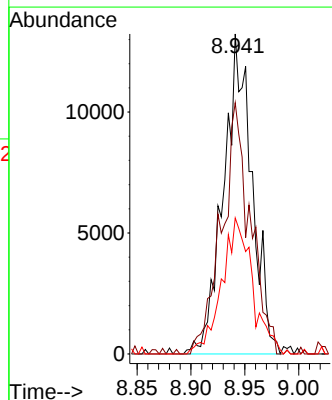
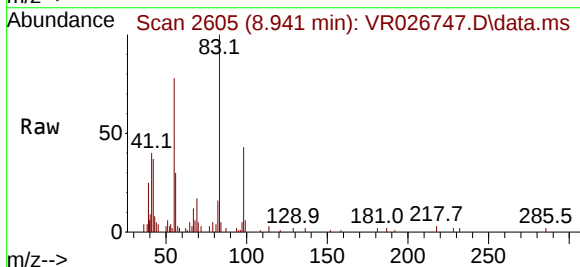
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

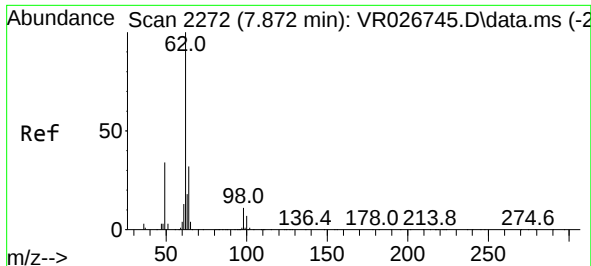
Tgt Ion:117 Resp: 252624
Ion Ratio Lower Upper
117 100
119 5.8 75.1 112.7#
121 0.0 24.2 36.2#



#38
Methylcyclohexane
Concen: 0.476 ug/l
RT: 8.941 min Scan# 2605
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 83 Resp: 24166
Ion Ratio Lower Upper
83 100
55 78.5 62.6 94.0
98 42.5 39.9 59.9

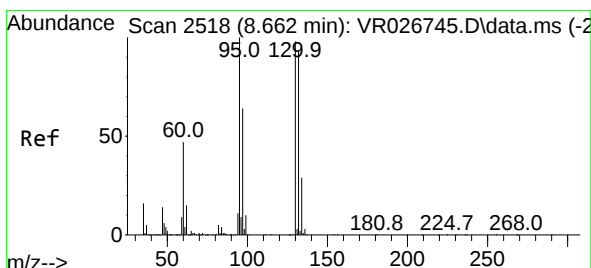
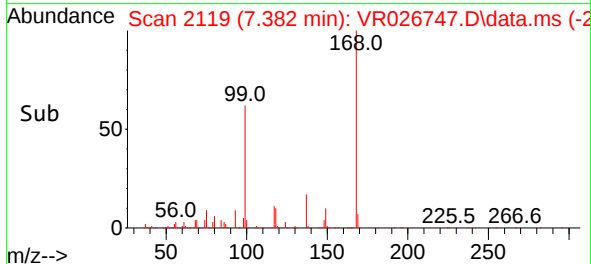
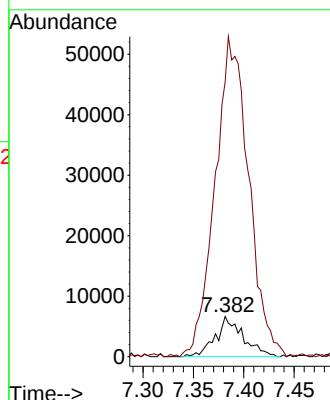
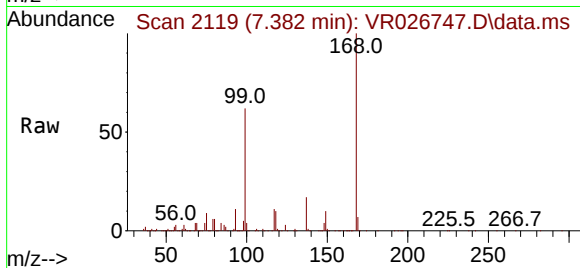




#41
1,2-Dichloroethane
Concen: 0.365 ug/l
RT: 7.382 min Scan# 2119
Delta R.T. -0.491 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

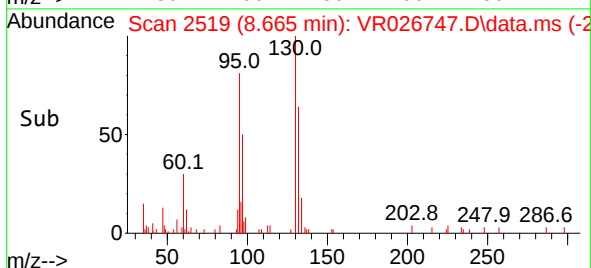
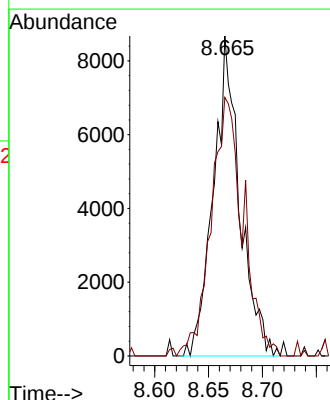
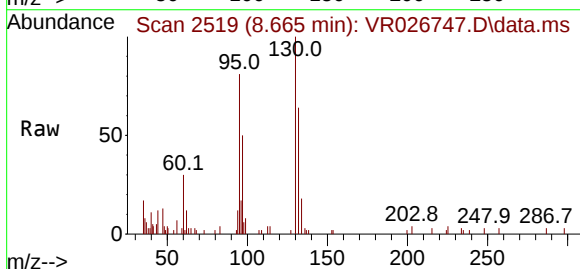
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

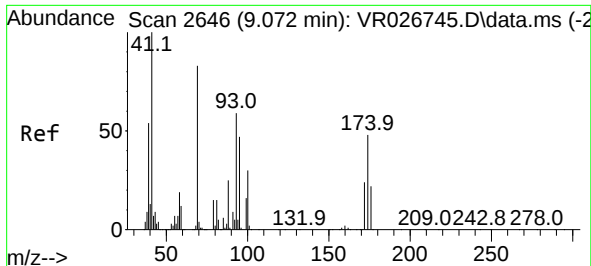
Tgt Ion: 62 Resp: 12612
Ion Ratio Lower Upper
62 100
98 972.4 0.0 21.2#



#43
Trichloroethene
Concen: 0.543 ug/l
RT: 8.665 min Scan# 2519
Delta R.T. 0.003 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion:130 Resp: 14757
Ion Ratio Lower Upper
130 100
95 80.8 0.0 203.4

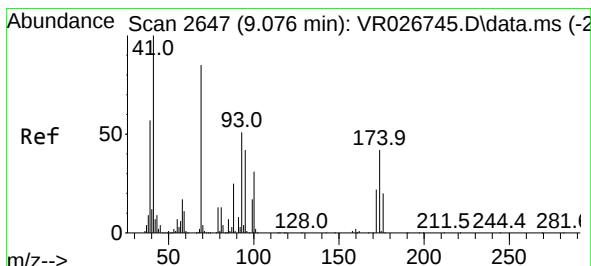
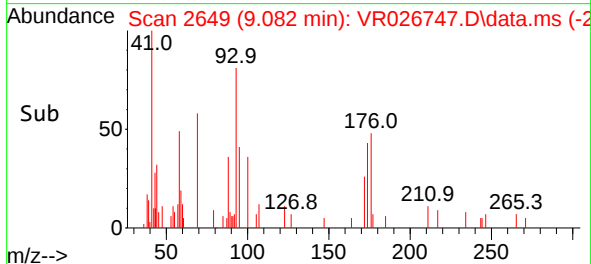
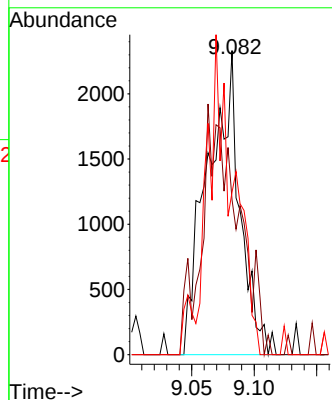
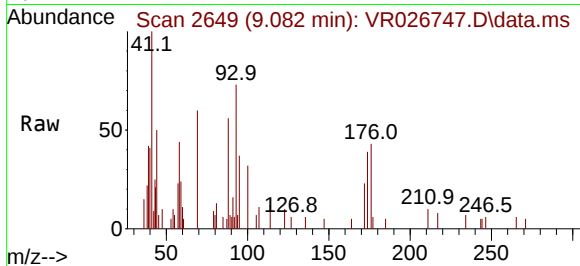




#45
Dibromomethane
Concen: 0.221 ug/l
RT: 9.082 min Scan# 2649
Delta R.T. 0.010 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

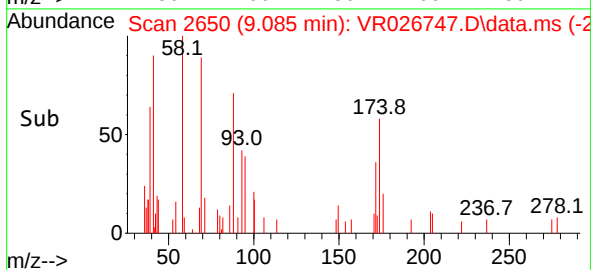
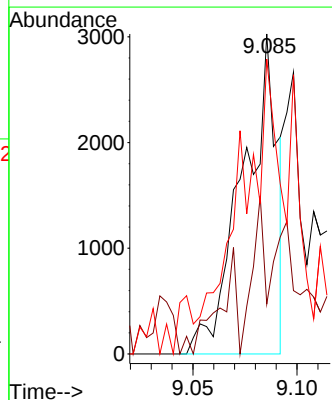
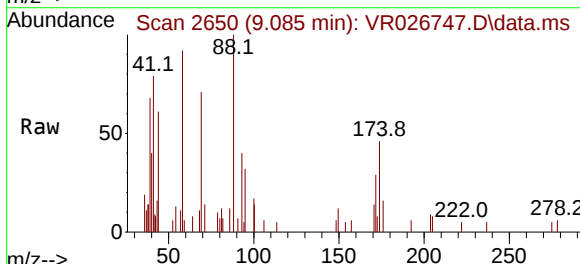
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

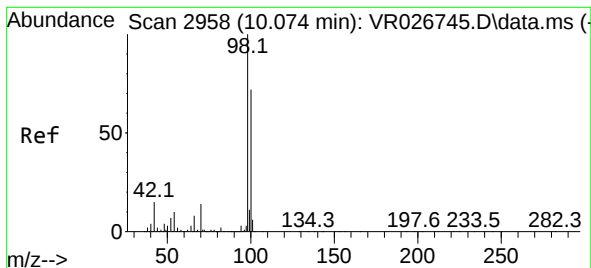
Tgt Ion: 93 Resp: 4176
Ion Ratio Lower Upper
93 100
95 85.4 65.4 98.0
174 50.1 66.5 99.7#



#48
1,4-Dioxane
Concen: 7.529 ug/l
RT: 9.085 min Scan# 2650
Delta R.T. 0.009 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 88 Resp: 3472
Ion Ratio Lower Upper
88 100
43 18.0 27.1 40.7#
58 43.1 55.9 83.9#





#49

Toluene-d8

Concen: 47.961 ug/l

RT: 10.074 min Scan# 2958

Delta R.T. 0.000 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

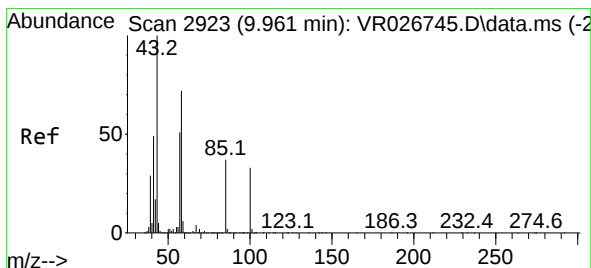
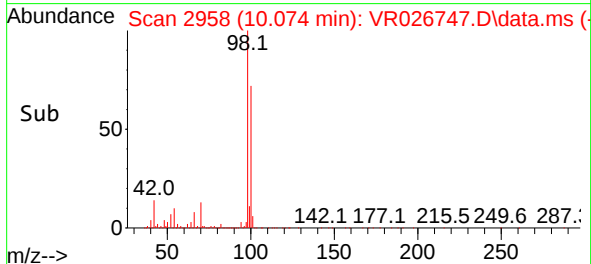
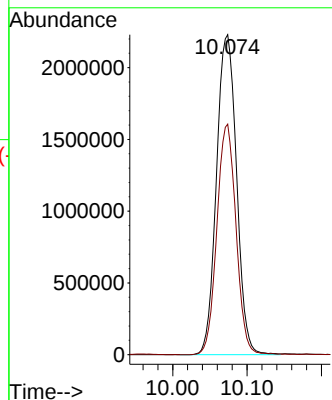
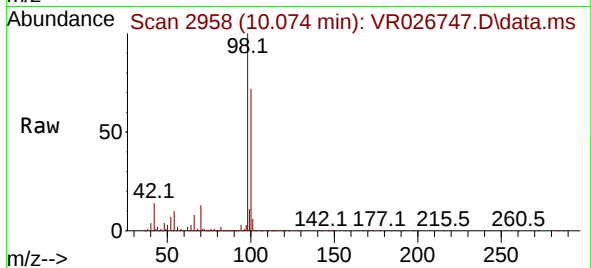
VIBLK

Tgt Ion: 98 Resp: 4186651

Ion Ratio Lower Upper

98 100

100 68.9 55.7 83.5



#50

4-Methyl-2-Pentanone

Concen: 0.574 ug/l

RT: 9.958 min Scan# 2922

Delta R.T. -0.003 min

Lab File: VR026747.D

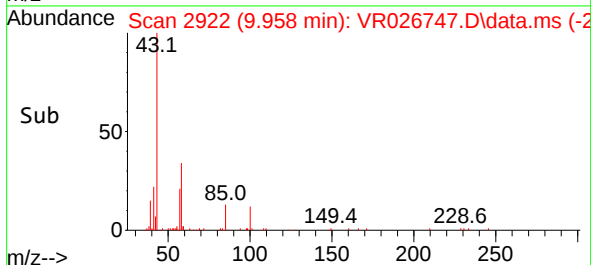
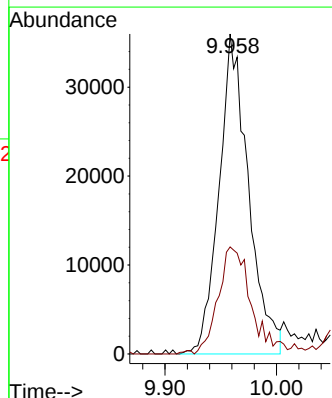
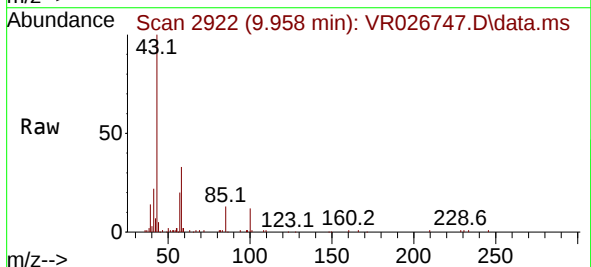
Acq: 20 Aug 2025 17:42

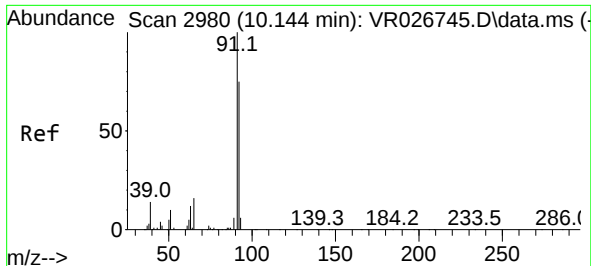
Tgt Ion: 43 Resp: 65983

Ion Ratio Lower Upper

43 100

58 37.0 46.8 70.2#

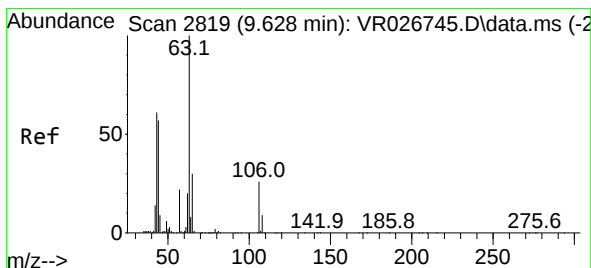
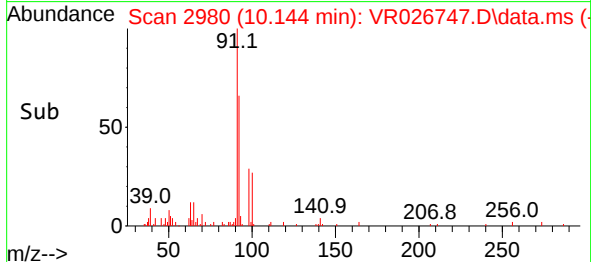
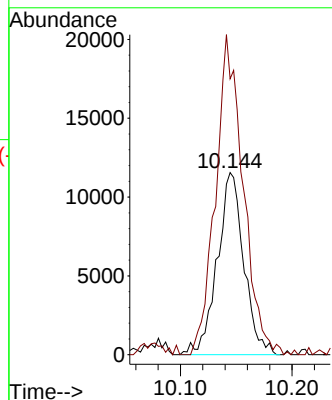
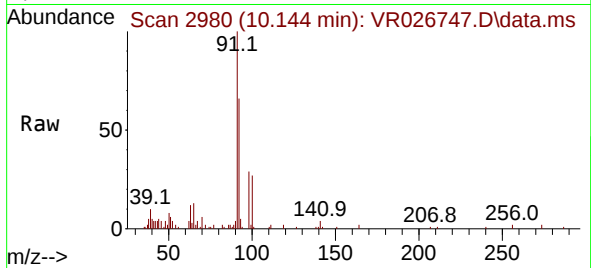




#51
Toluene
Concen: 0.268 ug/l
RT: 10.144 min Scan# 2980
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

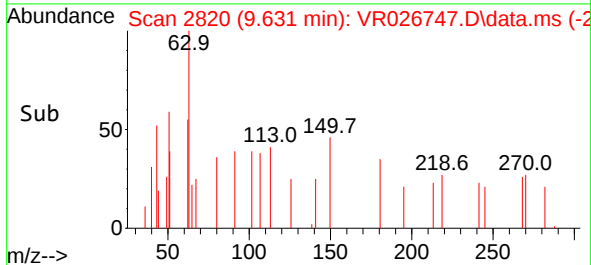
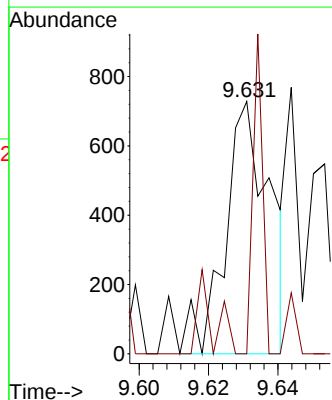
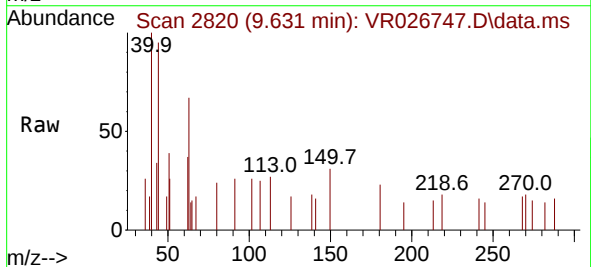
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

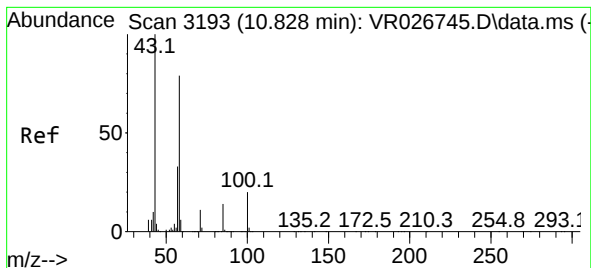
Tgt Ion: 92 Resp: 19075
Ion Ratio Lower Upper
92 100
91 182.6 120.1 180.1#



#57
2-Chloroethyl Vinyl ether
Concen: 19.747 ug/l
RT: 9.631 min Scan# 2820
Delta R.T. 0.003 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 63 Resp: 650
Ion Ratio Lower Upper
63 100
106 27.4 21.5 32.3

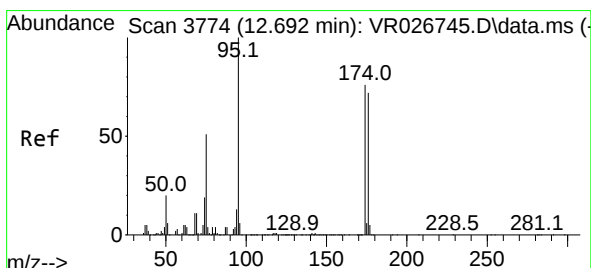
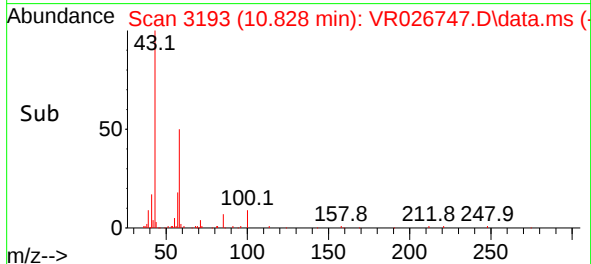
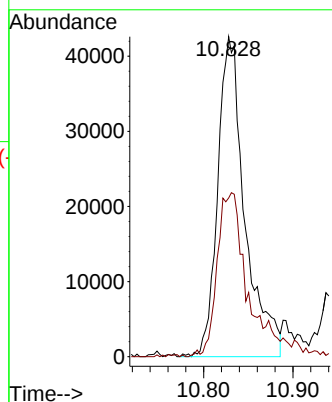
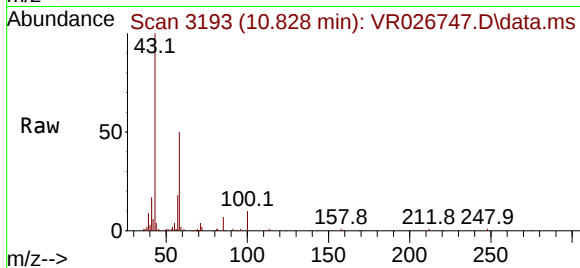




#58
2-Hexanone
Concen: 3.626 ug/l
RT: 10.828 min Scan# 3193
Delta R.T. -0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

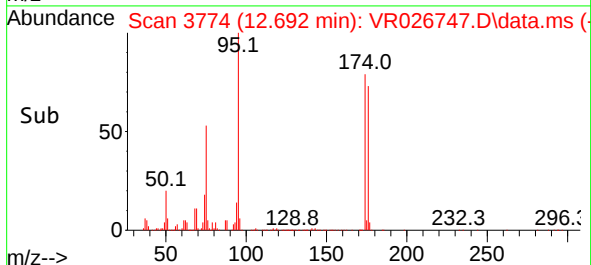
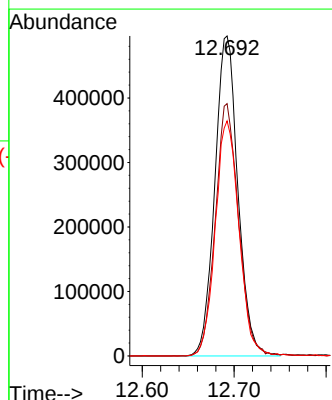
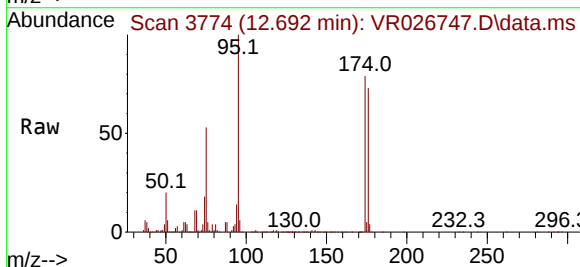
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

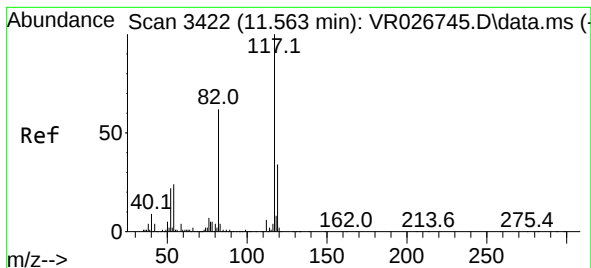
Tgt Ion: 43 Resp: 90124
Ion Ratio Lower Upper
43 100
58 57.6 34.0 102.0



#61
4-Bromofluorobenzene
Concen: 34.958 ug/l
RT: 12.692 min Scan# 3774
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 95 Resp: 865856
Ion Ratio Lower Upper
95 100
174 79.6 0.0 156.6
176 75.2 0.0 150.2





#62

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.563 min Scan# 3422

Delta R.T. -0.000 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

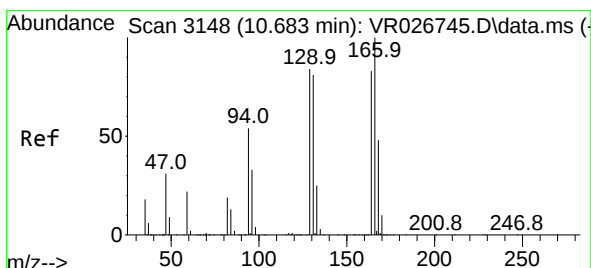
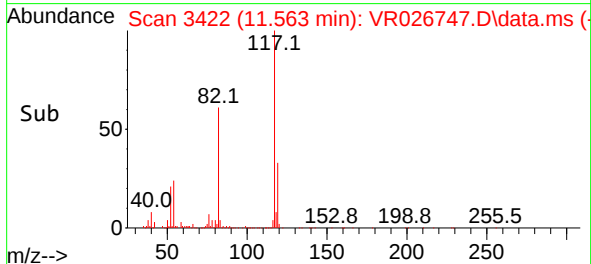
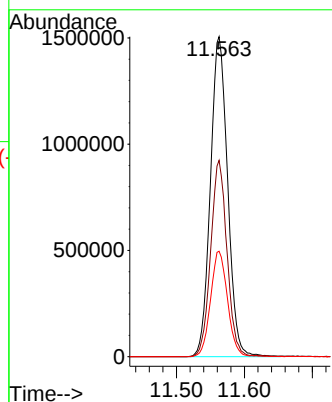
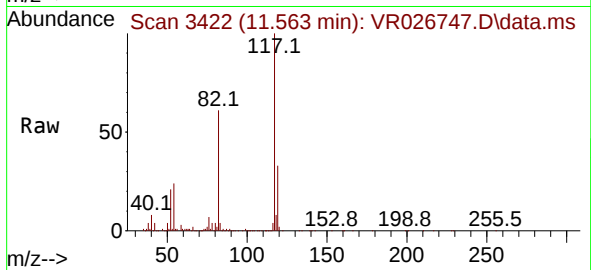
Tgt Ion:117 Resp: 2654659

Ion Ratio Lower Upper

117 100

82 61.4 49.9 74.9

119 33.0 27.4 41.2



#63

Tetrachloroethene

Concen: 0.376 ug/l

RT: 10.677 min Scan# 3146

Delta R.T. -0.006 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Tgt Ion:164 Resp: 7005

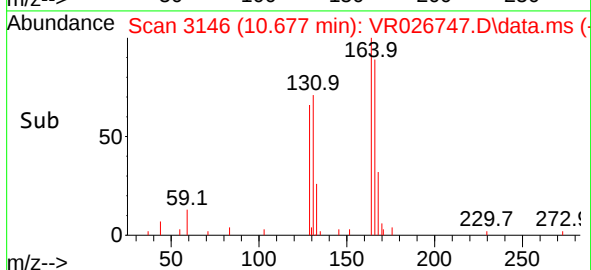
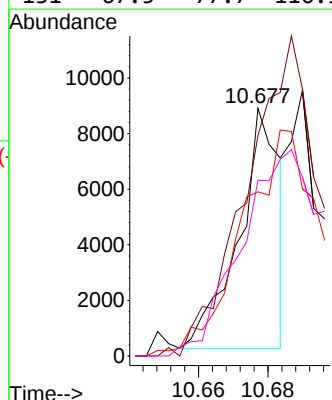
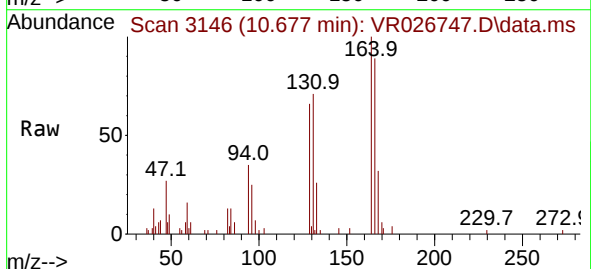
Ion Ratio Lower Upper

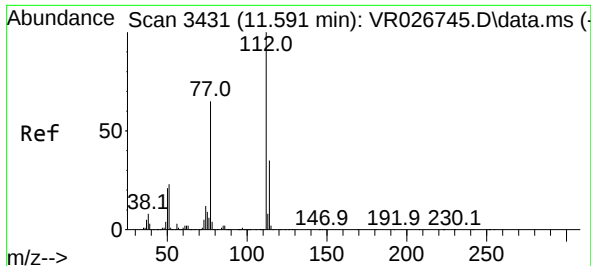
164 100

166 92.0 95.9 143.9#

129 65.1 80.2 120.2#

131 67.5 77.7 116.5#

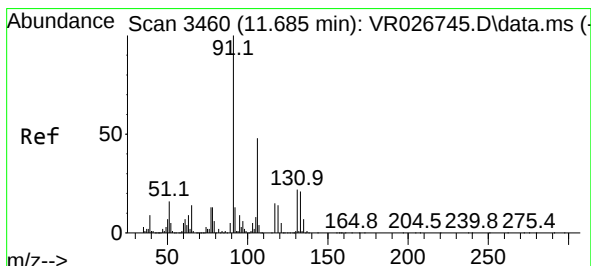
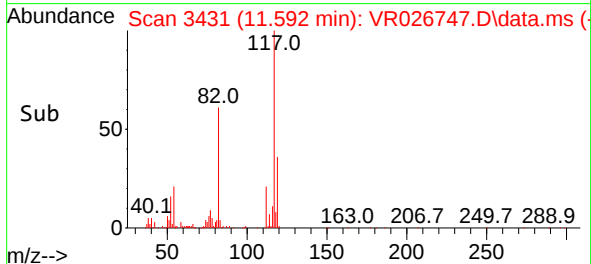
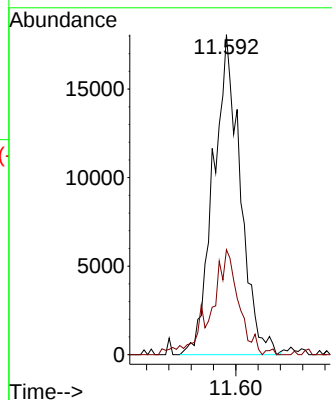
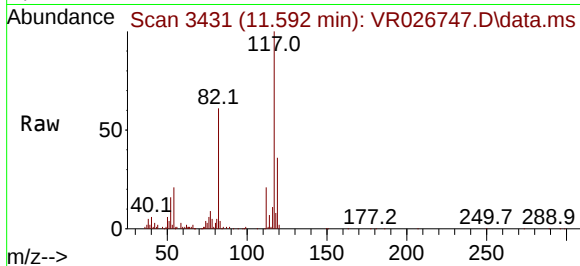




#64
Chlorobenzene
Concen: 0.513 ug/l
RT: 11.592 min Scan# 3431
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

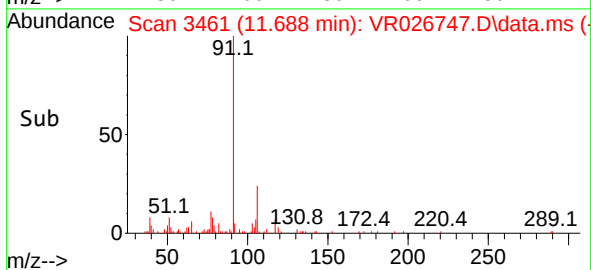
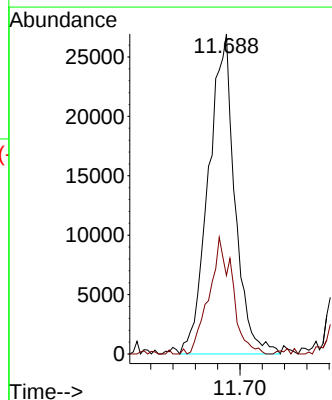
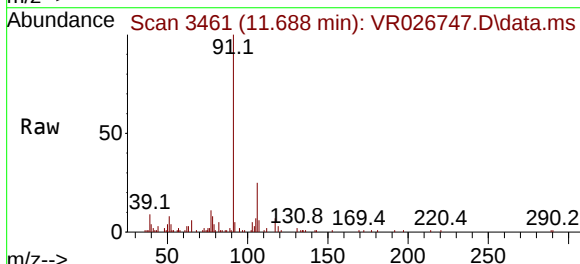
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

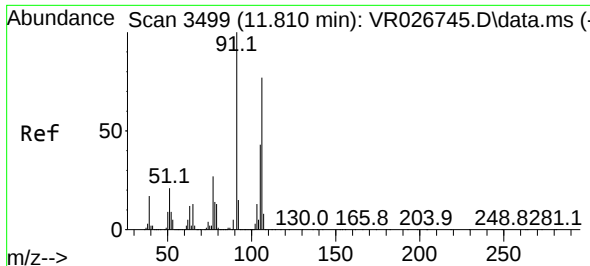
Tgt Ion:112 Resp: 30330
Ion Ratio Lower Upper
112 100
114 32.8 28.0 42.0



#66
Ethyl Benzene
Concen: 0.449 ug/l
RT: 11.688 min Scan# 3461
Delta R.T. 0.003 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 91 Resp: 44299
Ion Ratio Lower Upper
91 100
106 24.5 38.7 58.1#

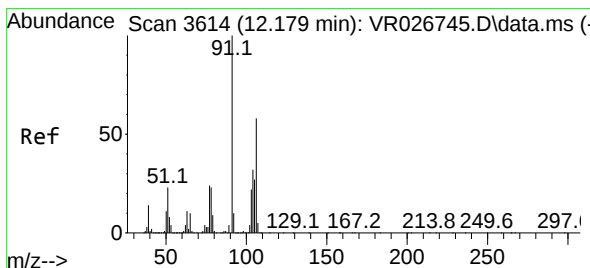
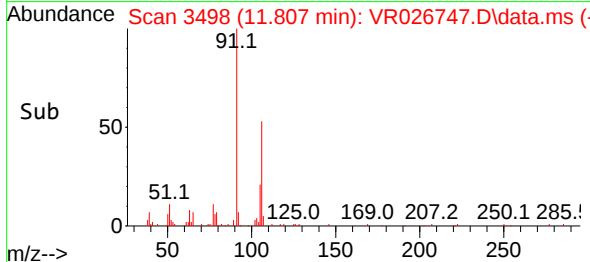
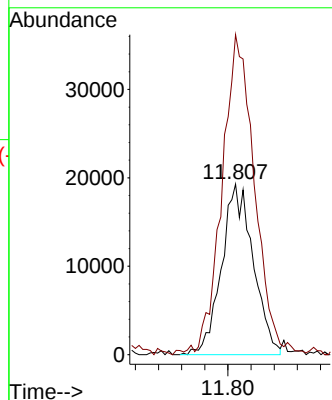
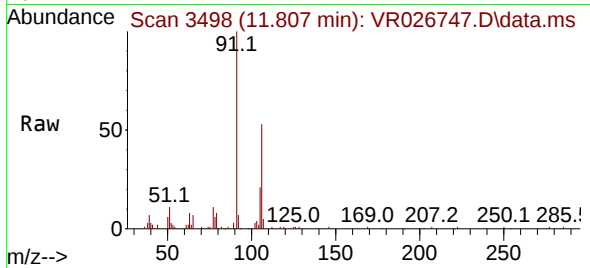




#67
m/p-Xylenes
Concen: 0.888 ug/l
RT: 11.807 min Scan# 3499
Delta R.T. -0.003 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

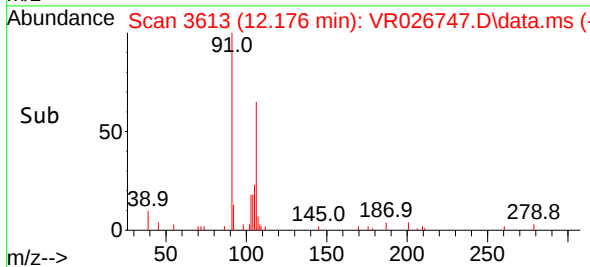
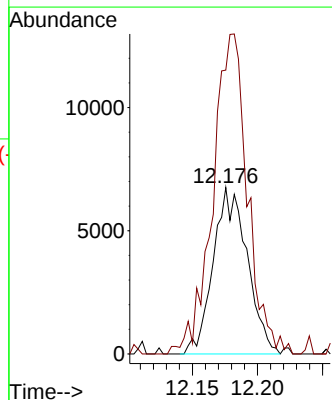
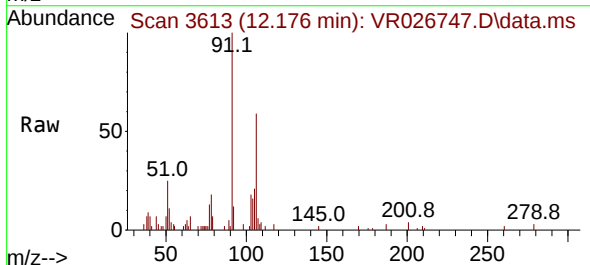
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

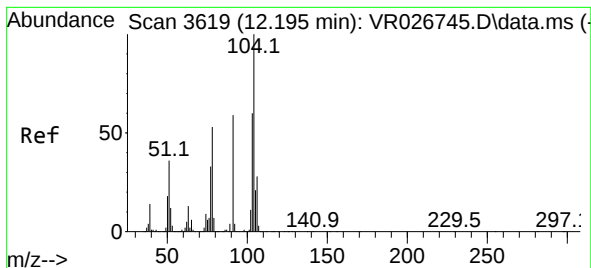
Tgt Ion:106 Resp: 36681
Ion Ratio Lower Upper
106 100
91 193.4 121.6 182.4#



#68
o-Xylene
Concen: 0.292 ug/l
RT: 12.176 min Scan# 3613
Delta R.T. -0.003 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion:106 Resp: 12246
Ion Ratio Lower Upper
106 100
91 196.5 93.7 281.1





#69

Styrene

Concen: 0.327 ug/l

RT: 12.198 min Scan# 3620

Delta R.T. 0.003 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

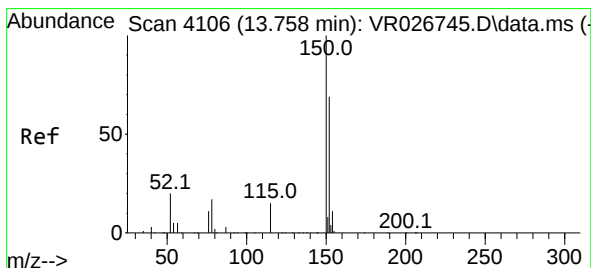
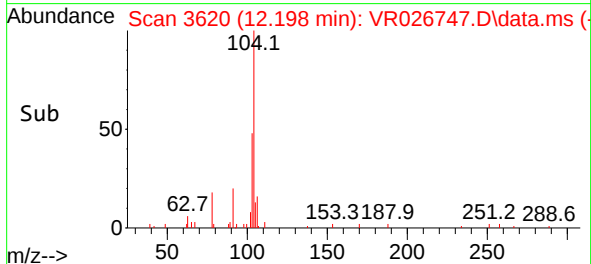
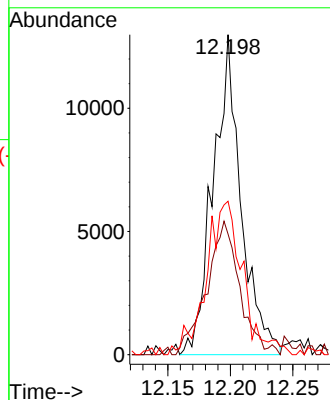
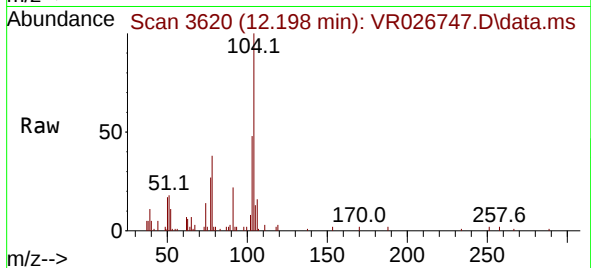
Tgt Ion:104 Resp: 20172

Ion Ratio Lower Upper

104 100

78 48.9 42.5 63.7

103 62.2 47.5 71.3



#71

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.758 min Scan# 4106

Delta R.T. 0.000 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

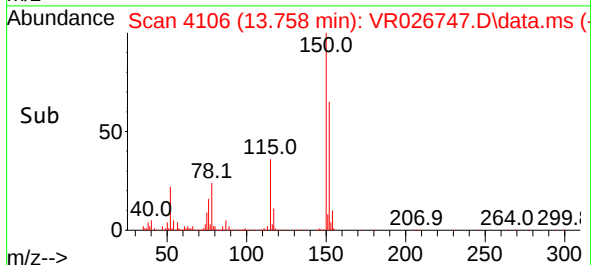
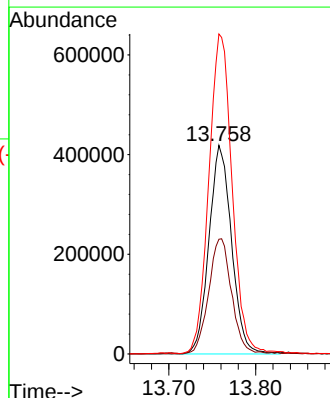
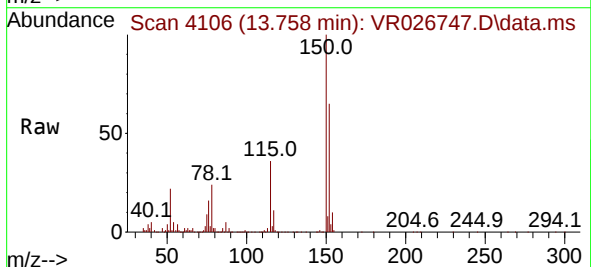
Tgt Ion:152 Resp: 757564

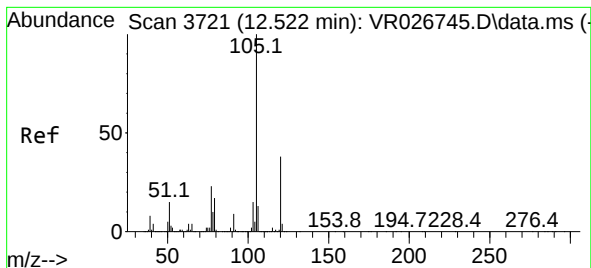
Ion Ratio Lower Upper

152 100

115 55.7 28.5 85.5

150 157.8 0.0 352.0





#72

Isopropylbenzene

Concen: 0.477 ug/l

RT: 12.519 min Scan# 31

Delta R.T. -0.003 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

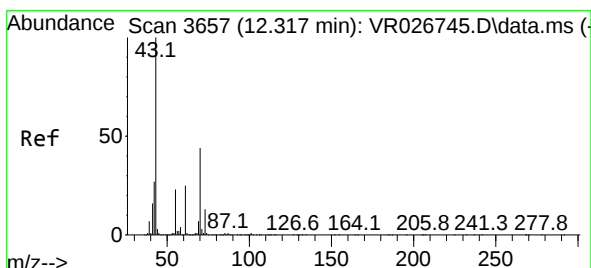
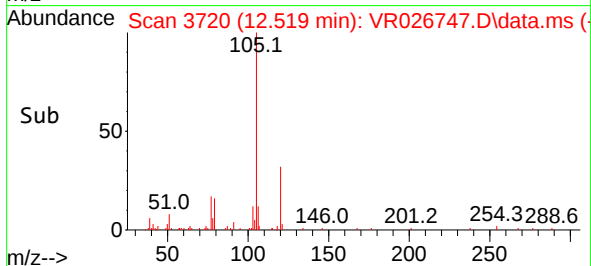
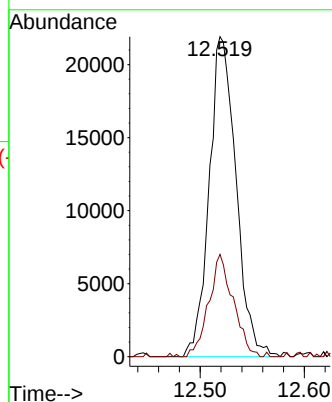
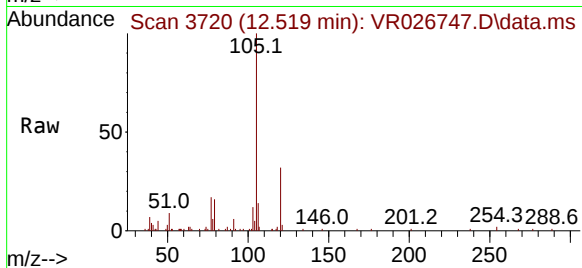
VIBLK

Tgt Ion:105 Resp: 39193

Ion Ratio Lower Upper

105 100

120 29.1 16.4 49.2



#73

N-ethyl acetate

Concen: 1.246 ug/l

RT: 12.326 min Scan# 3660

Delta R.T. 0.010 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Tgt Ion: 43 Resp: 36999

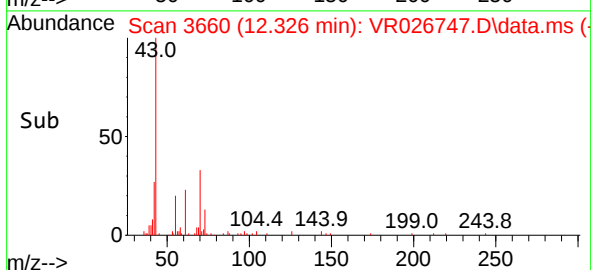
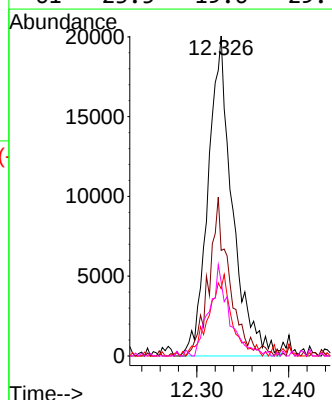
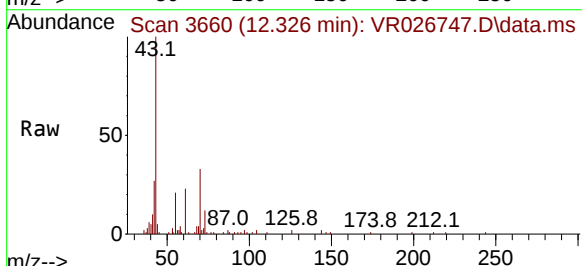
Ion Ratio Lower Upper

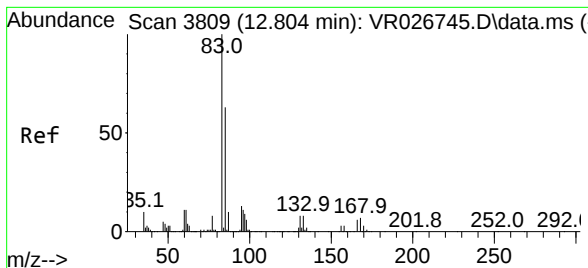
43 100

70 41.0 34.1 51.1

55 23.7 18.1 27.1

61 23.5 19.6 29.4





#74

1,1,2,2-Tetrachloroethane

Concen: 0.275 ug/l

RT: 12.801 min Scan# 3

Delta R.T. -0.003 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

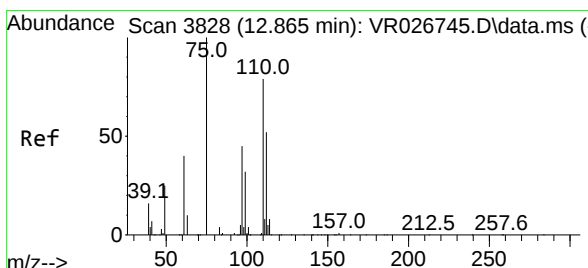
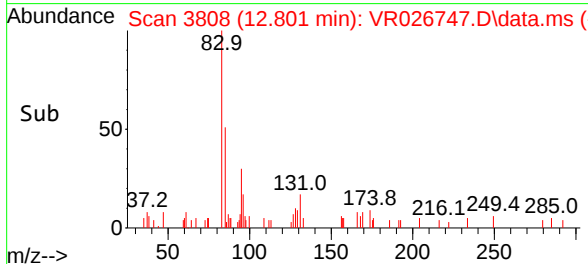
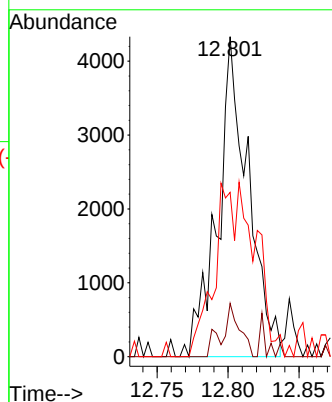
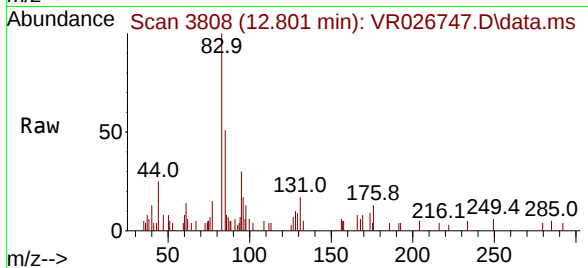
Tgt Ion: 83 Resp: 6483

Ion Ratio Lower Upper

83 100

131 7.1 4.6 13.8

85 36.2 31.7 95.1



#75

1,2,3-Trichloropropane

Concen: 24.203 ug/l

RT: 12.692 min Scan# 3774

Delta R.T. -0.173 min

Lab File: VR026747.D

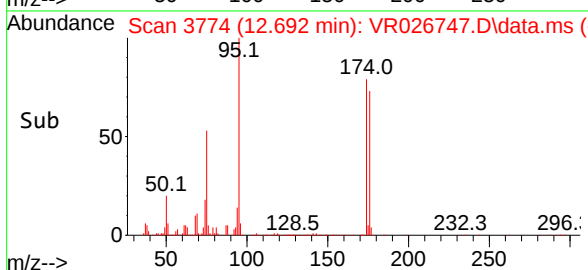
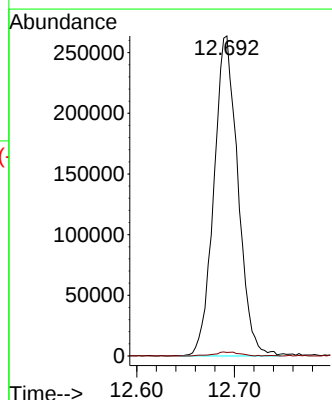
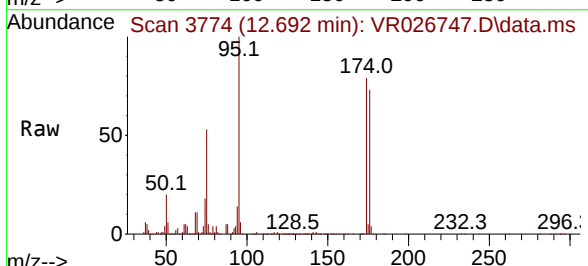
Acq: 20 Aug 2025 17:42

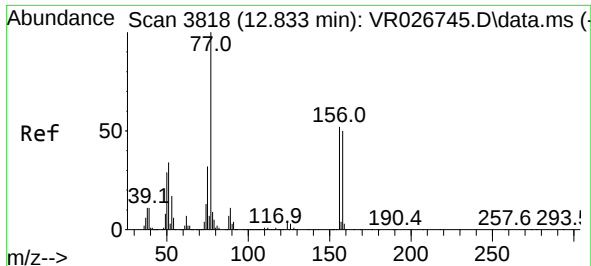
Tgt Ion: 75 Resp: 451971

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

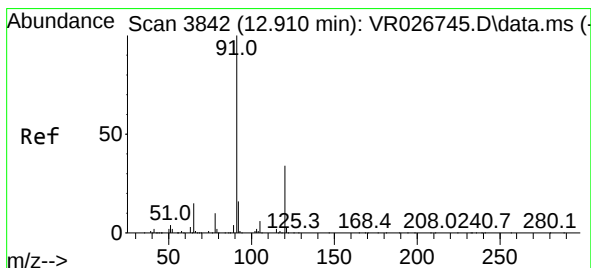
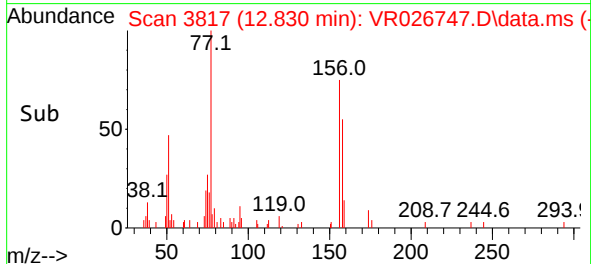
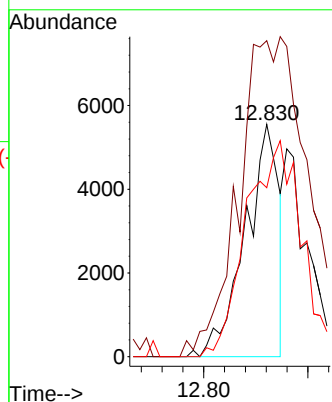
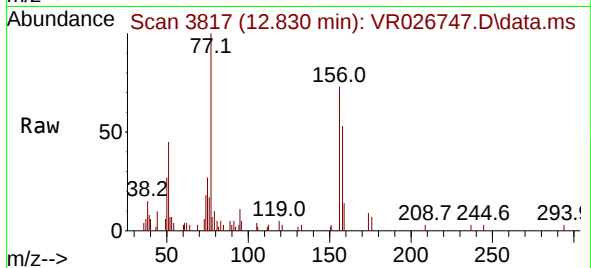




#76
Bromobenzene
Concen: 0.342 ug/l
RT: 12.830 min Scan# 3818
Delta R.T. -0.003 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

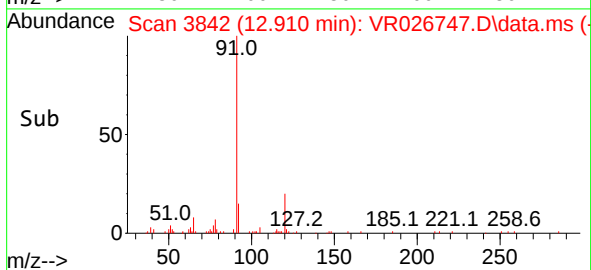
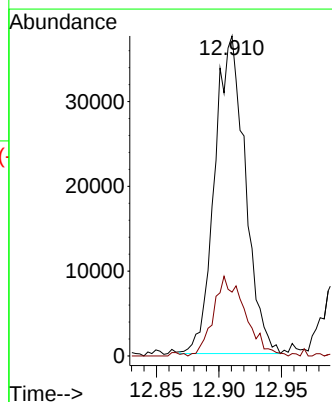
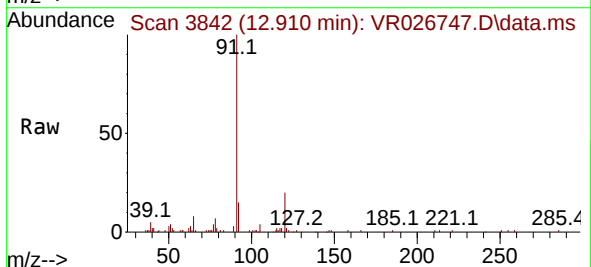
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

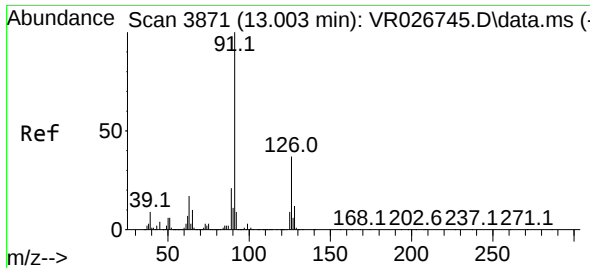
Tgt Ion:156 Resp: 6155
Ion Ratio Lower Upper
156 100
77 299.1 109.8 329.4
158 152.3 47.5 142.6#



#77
n-propylbenzene
Concen: 0.722 ug/l
RT: 12.910 min Scan# 3842
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 91 Resp: 63677
Ion Ratio Lower Upper
91 100
120 26.0 14.2 42.8

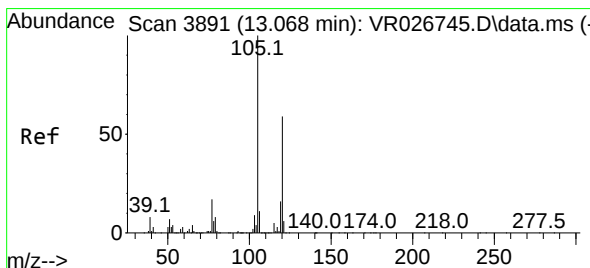
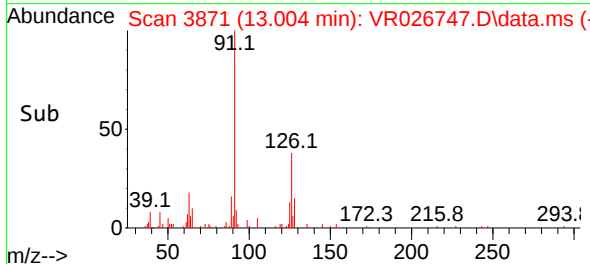
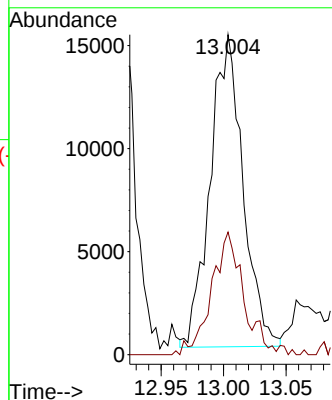
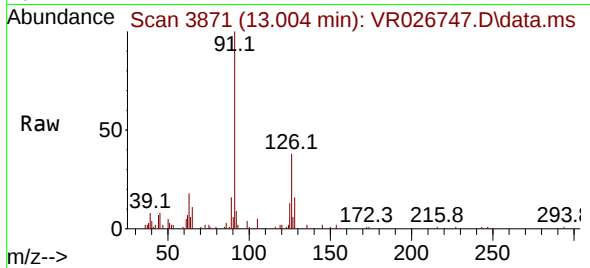




#78
2-Chlorotoluene
Concen: 0.531 ug/l
RT: 13.004 min Scan# 3871
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

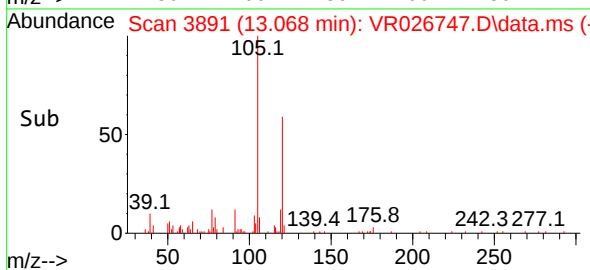
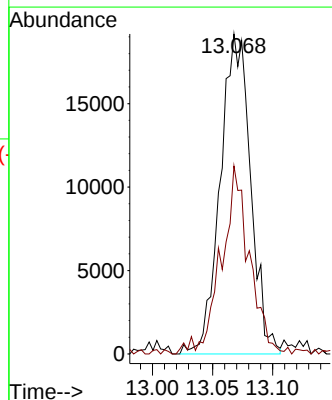
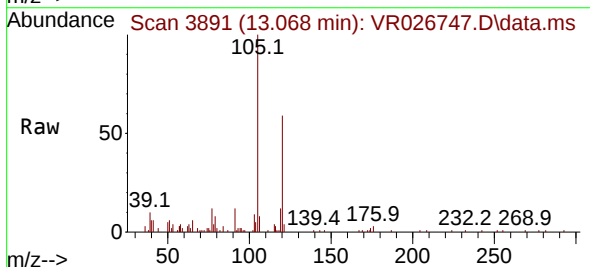
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

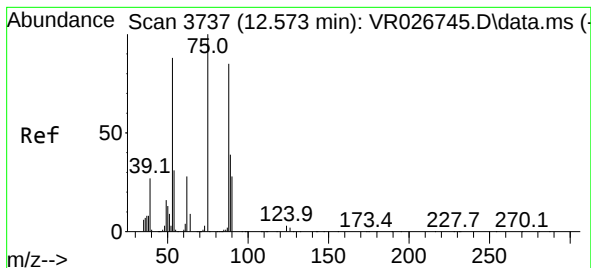
Tgt Ion: 91 Resp: 27665
Ion Ratio Lower Upper
91 100
126 34.7 18.0 54.0



#79
1,3,5-Trimethylbenzene
Concen: 0.548 ug/l
RT: 13.068 min Scan# 3891
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 105 Resp: 33639
Ion Ratio Lower Upper
105 100
120 51.9 27.8 83.4

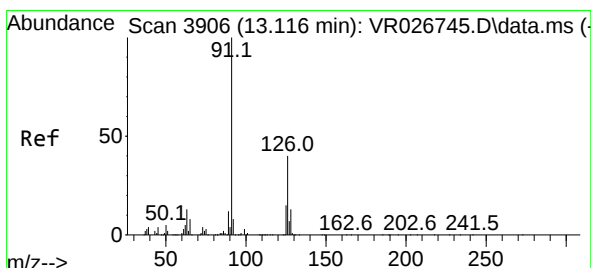
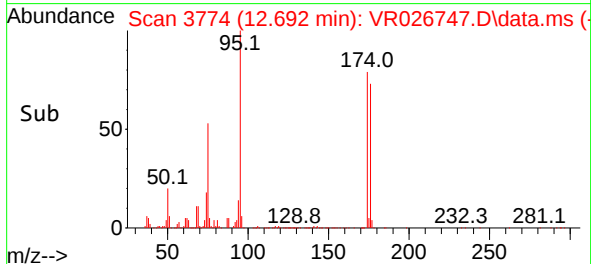
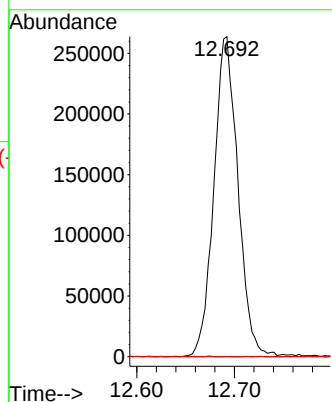
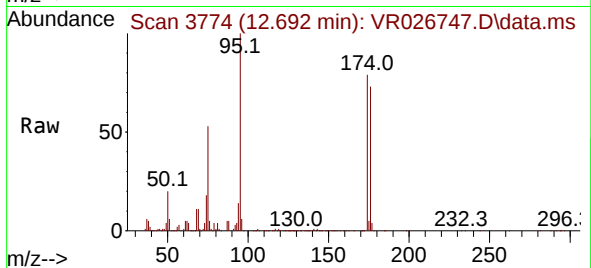




#80
trans-1,4-Dichloro-2-butene
Concen: 59.638 ug/l
RT: 12.692 min Scan# 31
Delta R.T. 0.119 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

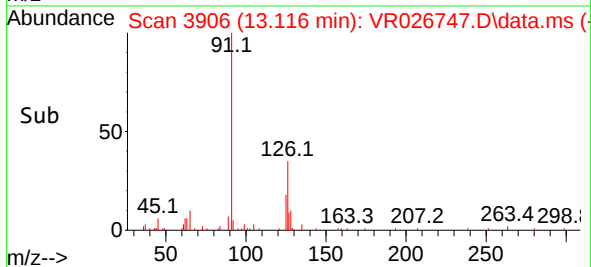
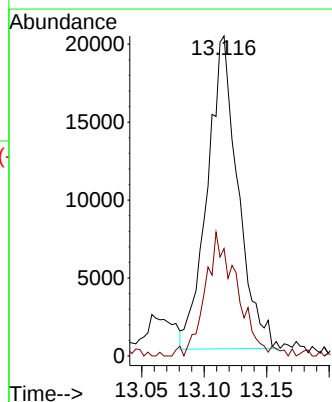
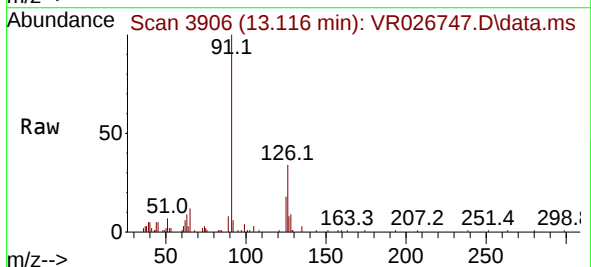
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

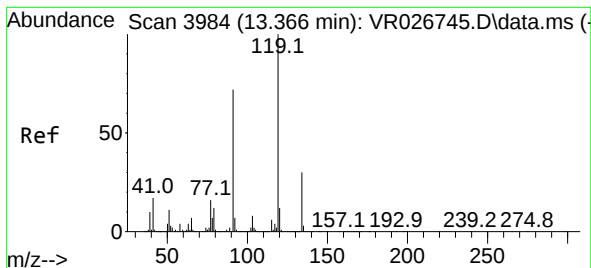
Tgt Ion: 75 Resp: 451971
Ion Ratio Lower Upper
75 100
53 0.0 70.9 106.3#
89 0.0 33.4 50.0#



#81
4-Chlorotoluene
Concen: 0.719 ug/l
RT: 13.116 min Scan# 3906
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion: 91 Resp: 34304
Ion Ratio Lower Upper
91 100
126 40.7 18.2 54.6





#82

tert-Butylbenzene

Concen: 0.499 ug/l

RT: 13.360 min Scan# 3984

Delta R.T. -0.006 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

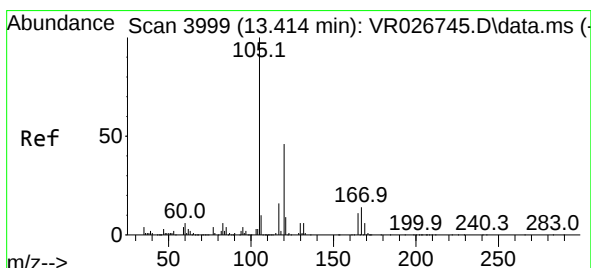
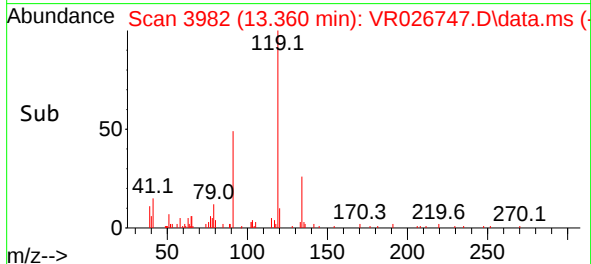
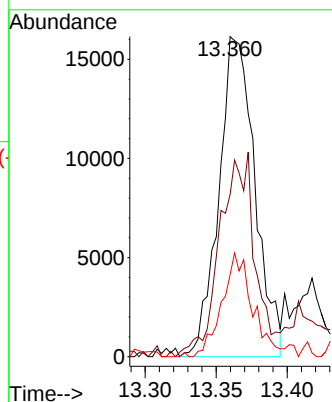
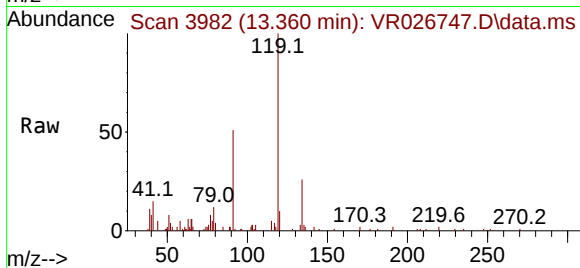
Tgt Ion:119 Resp: 28635

Ion Ratio Lower Upper

119 100

91 62.1 33.5 100.5

134 27.0 14.9 44.9



#83

1,2,4-Trimethylbenzene

Concen: 0.588 ug/l

RT: 13.411 min Scan# 3998

Delta R.T. -0.003 min

Lab File: VR026747.D

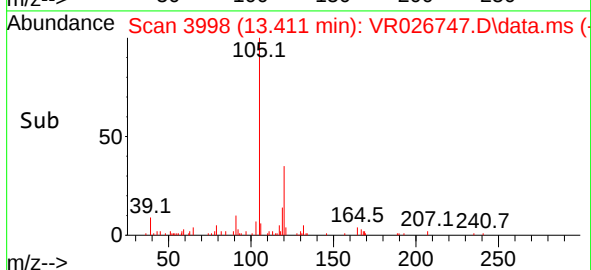
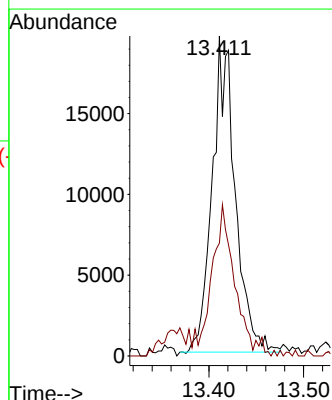
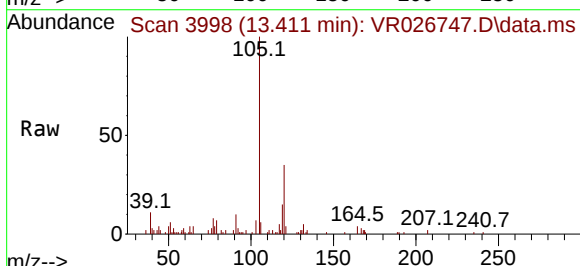
Acq: 20 Aug 2025 17:42

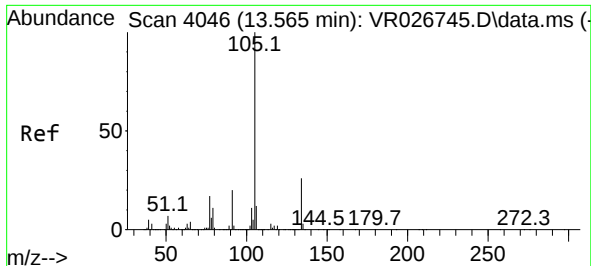
Tgt Ion:105 Resp: 32940

Ion Ratio Lower Upper

105 100

120 42.1 25.3 75.9

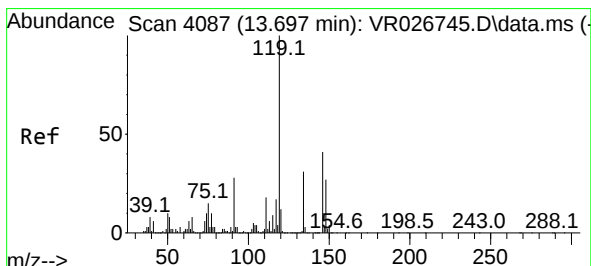
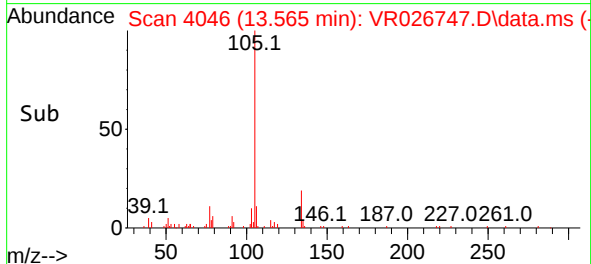
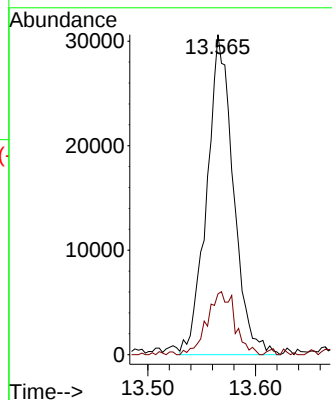
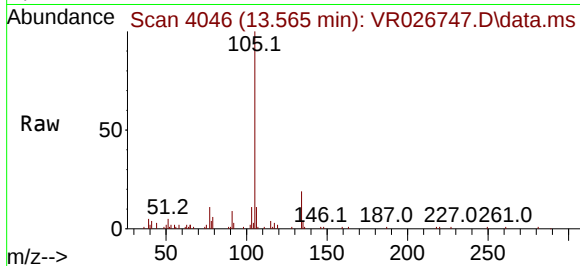




#84
 sec-Butylbenzene
 Concen: 0.712 ug/l
 RT: 13.565 min Scan# 4046
 Delta R.T. 0.000 min
 Lab File: VR026747.D
 Acq: 20 Aug 2025 17:42

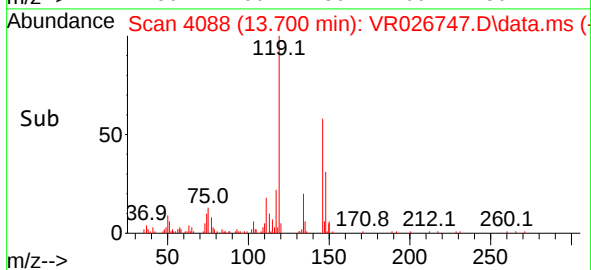
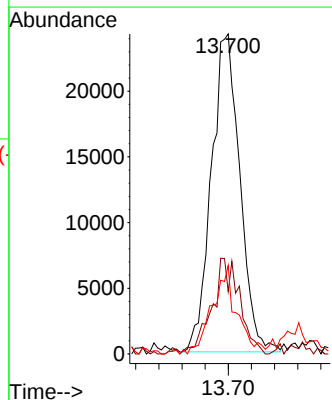
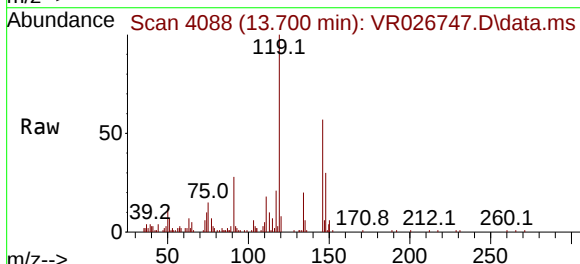
Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

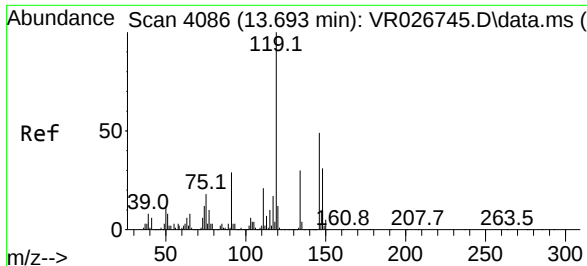
Tgt Ion:105 Resp: 52587
 Ion Ratio Lower Upper
 105 100
 134 20.4 11.6 34.7



#85
 p-Isopropyltoluene
 Concen: 0.722 ug/l
 RT: 13.700 min Scan# 4088
 Delta R.T. 0.003 min
 Lab File: VR026747.D
 Acq: 20 Aug 2025 17:42

Tgt Ion:119 Resp: 41447
 Ion Ratio Lower Upper
 119 100
 134 29.0 14.4 43.2
 91 24.0 12.7 38.0

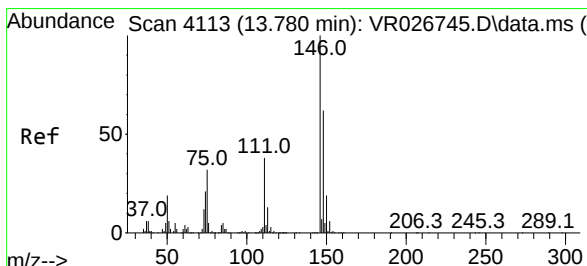
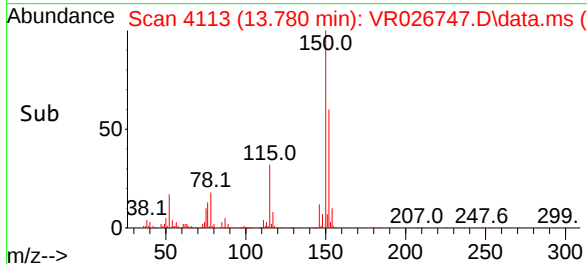
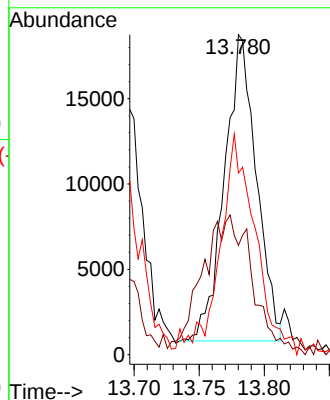
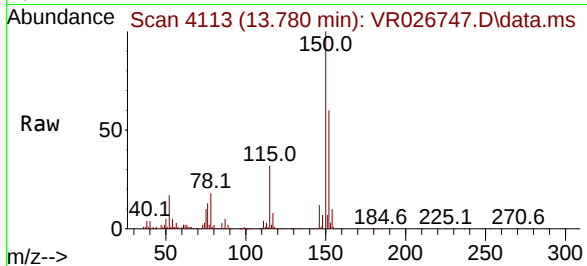




#86
1,3-Dichlorobenzene
Concen: 1.146 ug/l
RT: 13.780 min Scan# 4113
Delta R.T. 0.087 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

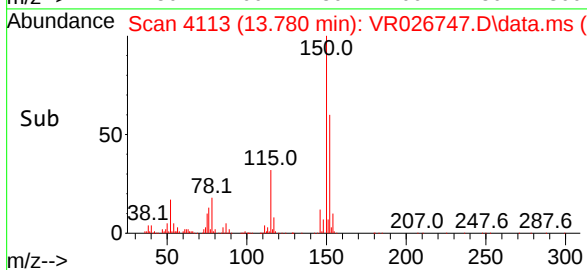
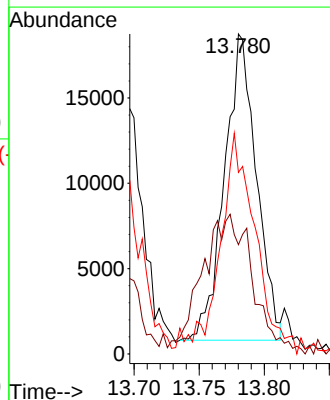
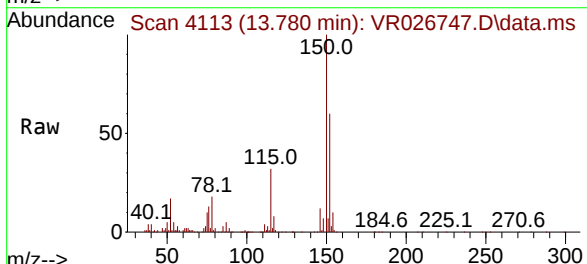
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

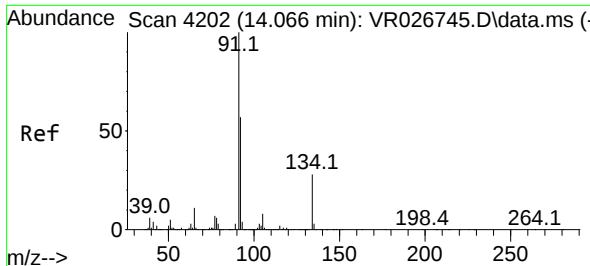
Tgt Ion:146 Resp: 30623
Ion Ratio Lower Upper
146 100
111 25.5 20.9 62.7
148 77.3 31.8 95.3



#87
1,4-Dichlorobenzene
Concen: 1.189 ug/l
RT: 13.780 min Scan# 4113
Delta R.T. 0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion:146 Resp: 30623
Ion Ratio Lower Upper
146 100
111 25.5 18.6 55.6
148 77.3 31.5 94.5

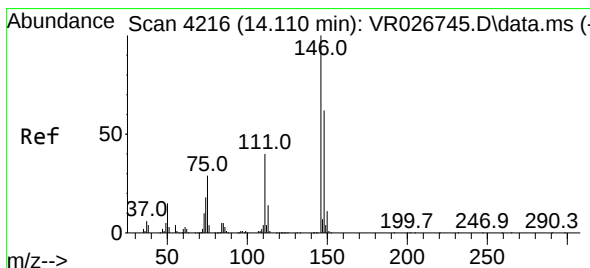
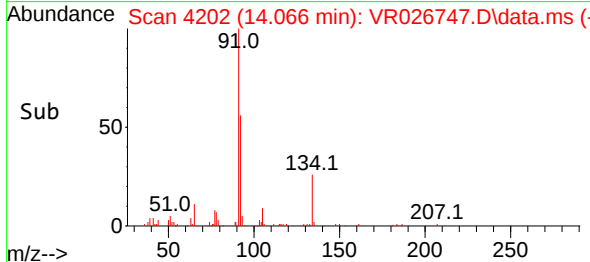
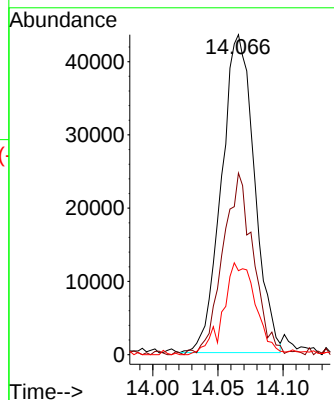
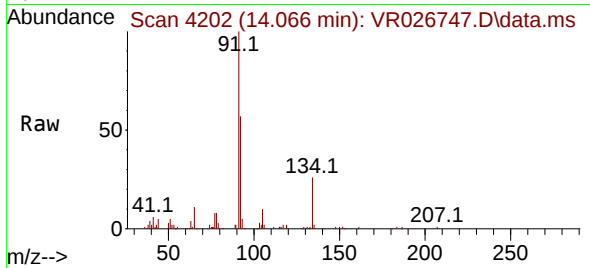




#88
n-Butylbenzene
Concen: 1.863 ug/l
RT: 14.066 min Scan# 41
Delta R.T. -0.000 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

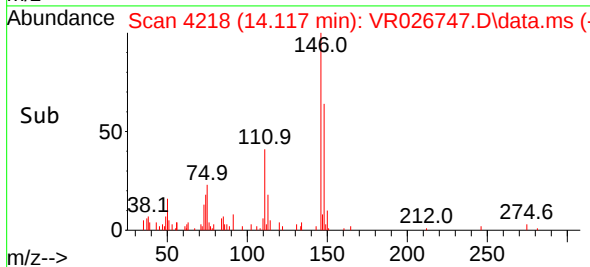
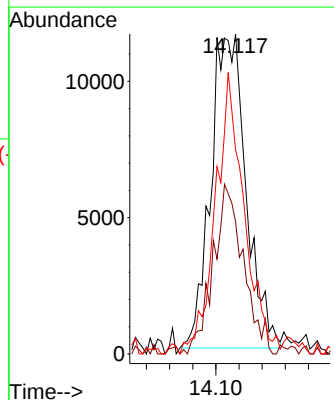
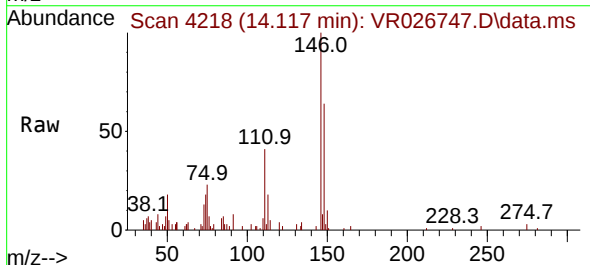
Instrument :
MSVOA_R
ClientSampleId :
VIBLK

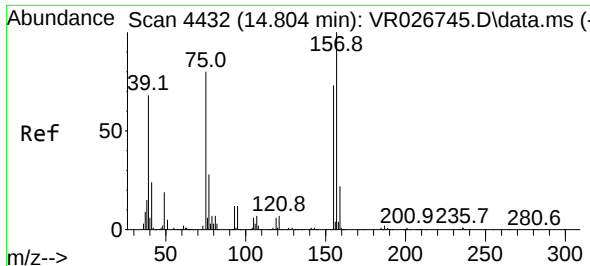
Tgt Ion: 91 Resp: 76366
Ion Ratio Lower Upper
91 100
92 53.4 27.7 83.0
134 28.3 13.5 40.5



#90
1,2-Dichlorobenzene
Concen: 1.084 ug/l
RT: 14.117 min Scan# 4218
Delta R.T. 0.007 min
Lab File: VR026747.D
Acq: 20 Aug 2025 17:42

Tgt Ion:146 Resp: 24346
Ion Ratio Lower Upper
146 100
111 46.6 19.9 59.7
148 73.1 31.5 94.5

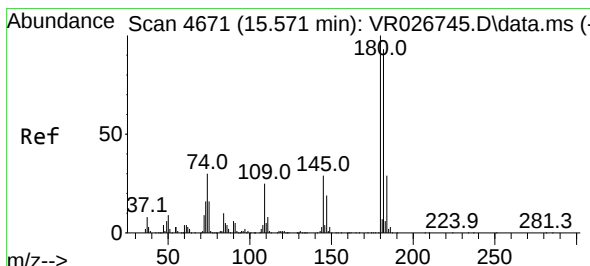
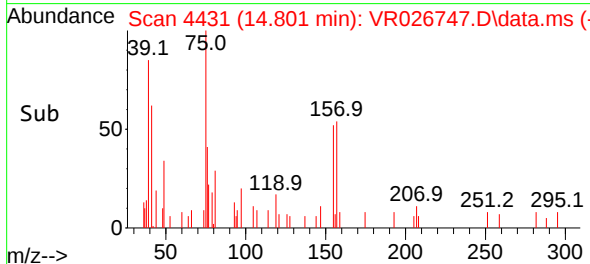
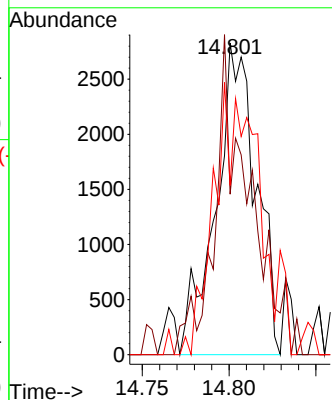
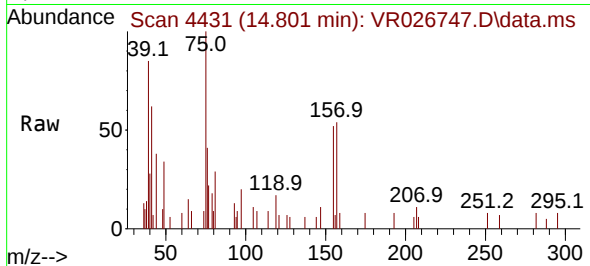




#91
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.801 min Scan# 4432
 Delta R.T. -0.003 min
 Lab File: VR026747.D
 Acq: 20 Aug 2025 17:42

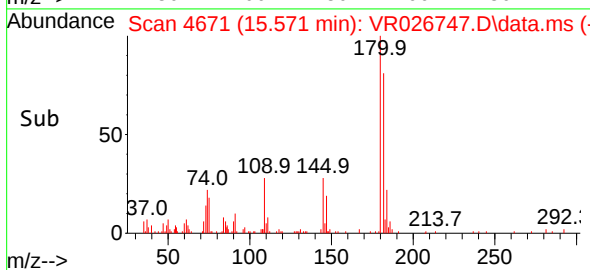
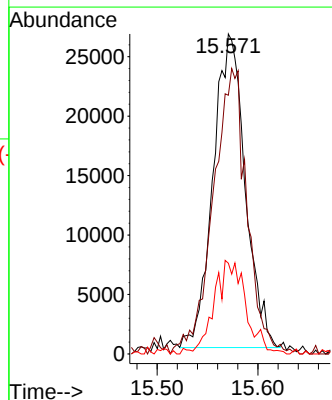
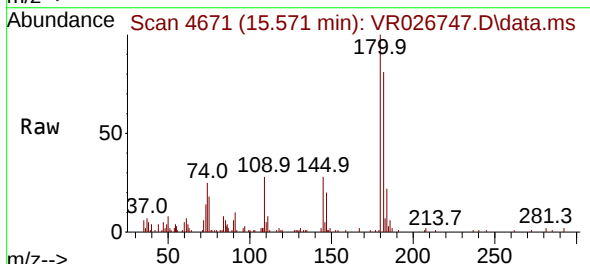
Instrument :
 MSVOA_R
 ClientSampleId :
 VIBLK

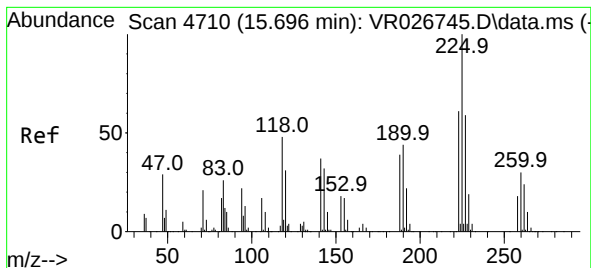
Tgt Ion: 75 Resp: 4562
 Ion Ratio Lower Upper
 75 100
 155 88.2 48.4 145.3
 157 38.9 62.3 186.8#



#92
 1,2,4-Trichlorobenzene
 Concen: 3.956 ug/l
 RT: 15.571 min Scan# 4671
 Delta R.T. 0.000 min
 Lab File: VR026747.D
 Acq: 20 Aug 2025 17:42

Tgt Ion:180 Resp: 58355
 Ion Ratio Lower Upper
 180 100
 182 96.1 47.1 141.4
 145 29.1 14.4 43.4





#93

Hexachlorobutadiene

Concen: 2.494 ug/l

RT: 15.693 min Scan# 41

Delta R.T. -0.003 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

VIBLK

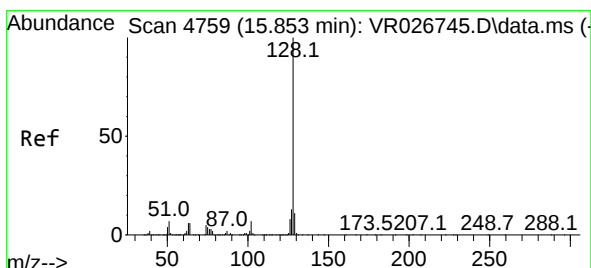
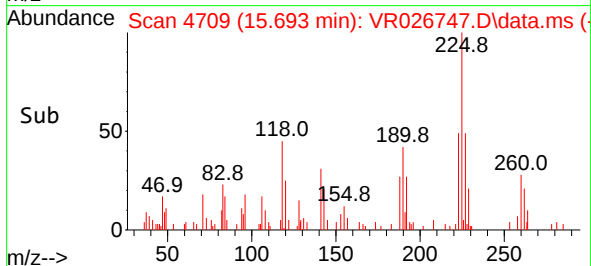
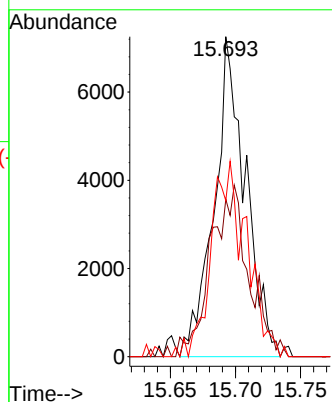
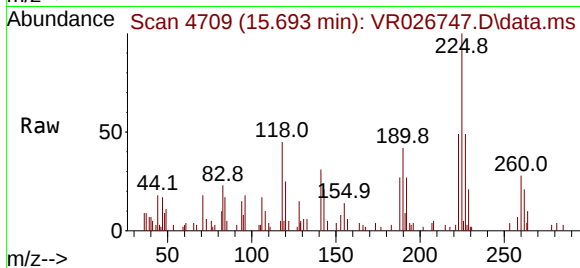
Tgt Ion:225 Resp: 12125

Ion Ratio Lower Upper

225 100

223 65.4 31.5 94.5

227 69.6 31.3 93.8



#94

Naphthalene

Concen: 12.500 ug/l

RT: 15.856 min Scan# 4760

Delta R.T. 0.003 min

Lab File: VR026747.D

Acq: 20 Aug 2025 17:42

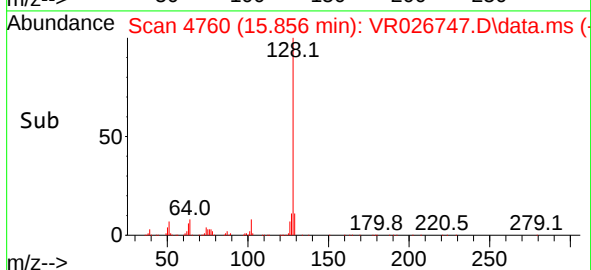
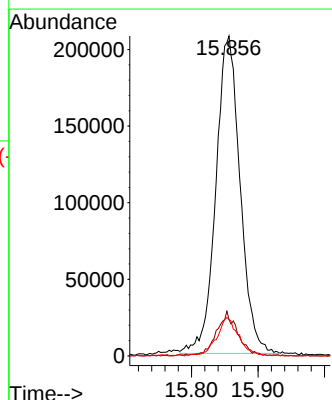
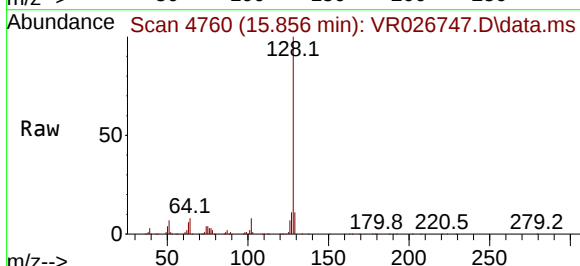
Tgt Ion:128 Resp: 527175

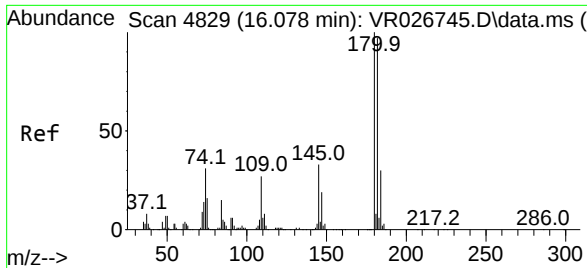
Ion Ratio Lower Upper

128 100

127 11.5 10.0 15.0

129 11.1 8.7 13.1





#95

1,2,3-Trichlorobenzene

Concen: 4.880 ug/l

RT: 16.081 min Scan# 4830

Delta R.T. 0.003 min

Lab File: VR026747.D

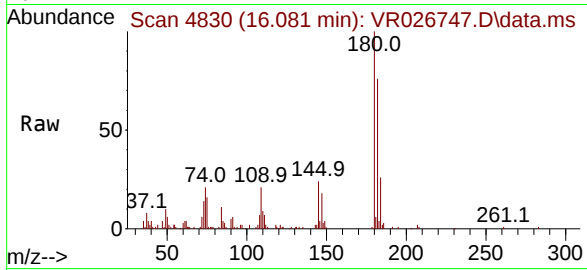
Acq: 20 Aug 2025 17:42

Instrument :

MSVOA_R

ClientSampleId :

VIBLK



Tgt Ion:180 Resp: 69845

Ion Ratio Lower Upper

180 100

182 95.1 47.5 142.6

145 18.6 15.6 46.8

