

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042129.D
 Acq On : 10 Mar 2025 17:20
 Operator : SY/MD
 Sample : Q1506-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Mar 11 01:27:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

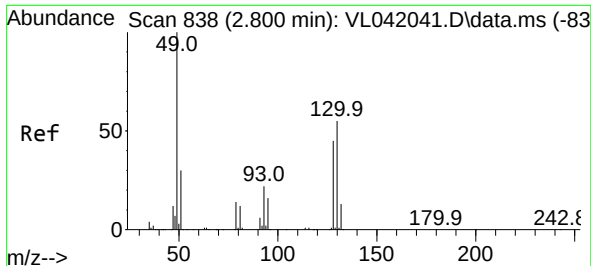
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards							
1) Bromochloromethane		2.797	49	155742	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.975	114	361993	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.898	117	308529	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.390	95	259167	10.918	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	109.200%
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		1.502	85	8995	0.555	ppbv	99
4) Chloromethane		1.534	50	3411	0.570	ppbv #	76
9) Propene		1.492	41	12884m	1.397	ppbv	
10) Heptane		5.007	43	3718m	0.129	ppbv	
11) Trichlorofluoromethane		1.884	101	4807	0.296	ppbv	91
13) Ethanol		1.725	45	76408	130.528	ppbv	91
15) Acetone		1.842	43	106603	7.751	ppbv #	89
19) Isopropyl Alcohol		1.894	45	20146	2.550	ppbv #	3
20) Methylene Chloride		2.068	84	4206	0.808	ppbv	95
34) 2-Butanone		2.570	43	7380	0.262	ppbv	97
35) Carbon Tetrachloride		3.777	117	2021m	0.081	ppbv	
36) Benzene		3.667	78	10673	0.282	ppbv #	85
44) 2,2,4-Trimethylpentane		4.654	57	10669m	0.160	ppbv	
53) Toluene		6.952	91	22652m	0.535	ppbv	
58) Ethyl Benzene		9.373	91	28623	0.504	ppbv	97
59) m/p-Xylene		9.548	91	200012	4.423	ppbv #	100
60) o-Xylene		9.979	91	57106	1.256	ppbv	99

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

Quant Time: Mar 11 01:27:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

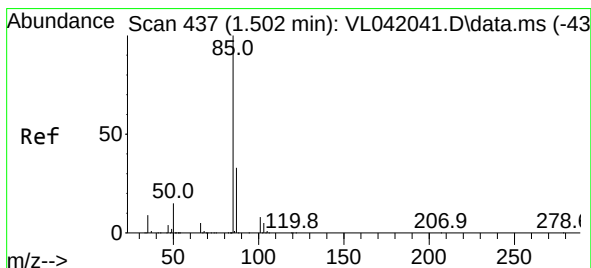
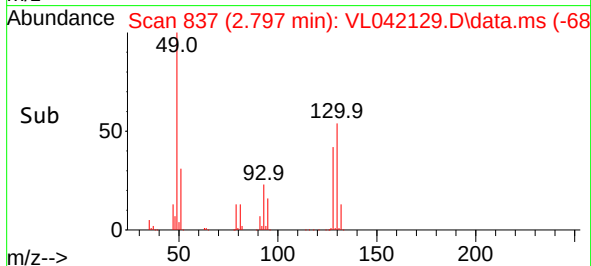
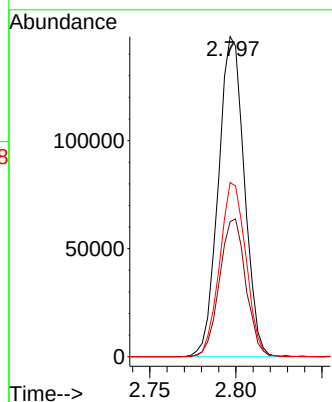
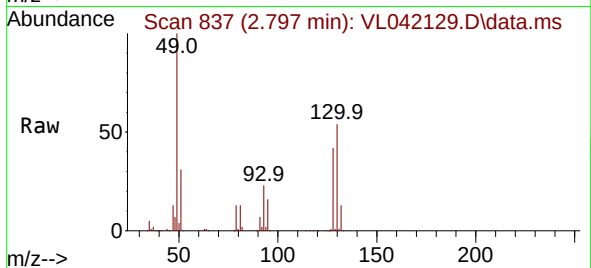




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

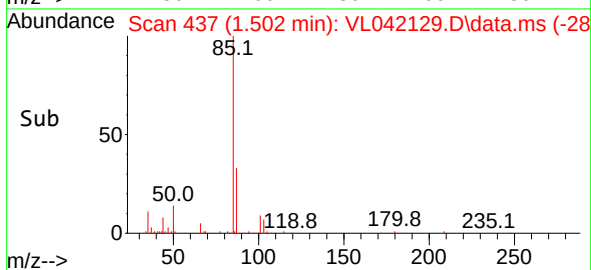
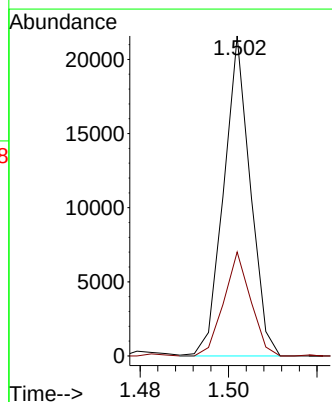
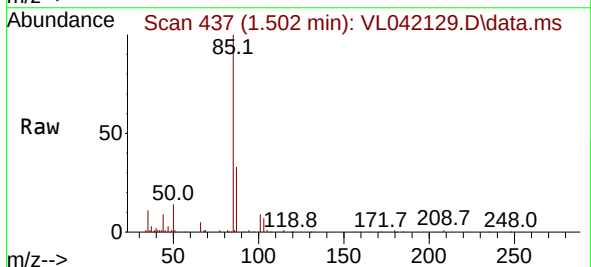
Instrument :
MSVOA_L
ClientSampleId :
IA1

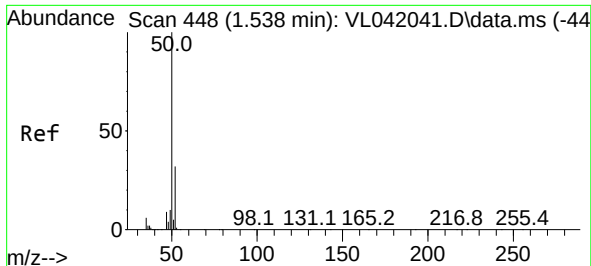
Tgt Ion: 49 Resp: 155742
Ion Ratio Lower Upper
49 100
128 43.5 21.6 64.8
130 55.0 27.8 83.4



#2
Dichlorodifluoromethane
Concen: 0.555 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 85 Resp: 8995
Ion Ratio Lower Upper
85 100
87 32.5 26.4 39.6

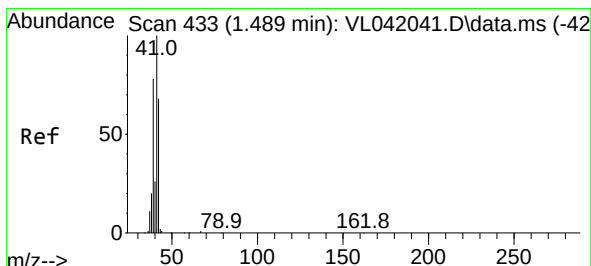
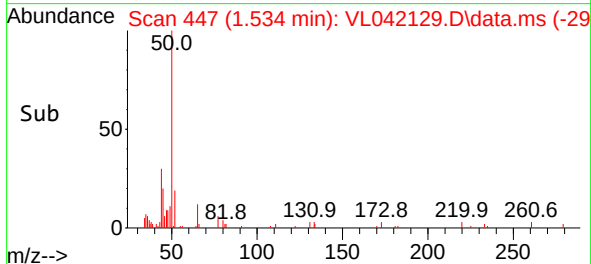
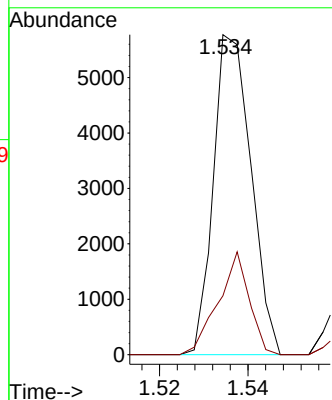
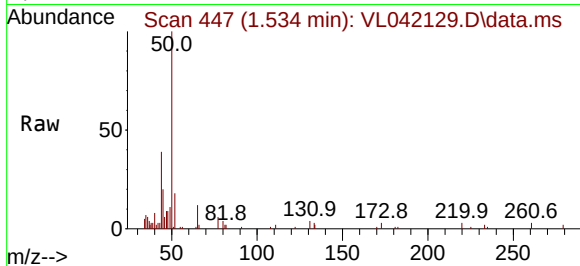




#4
Chloromethane
Concen: 0.570 ppbv
RT: 1.534 min Scan# 448
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

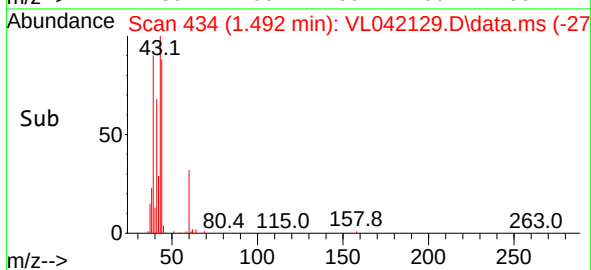
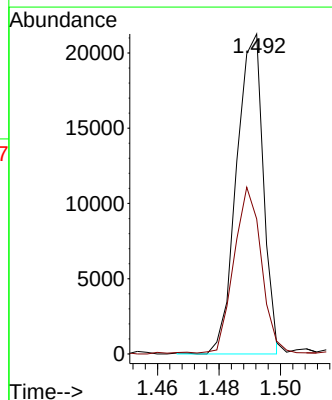
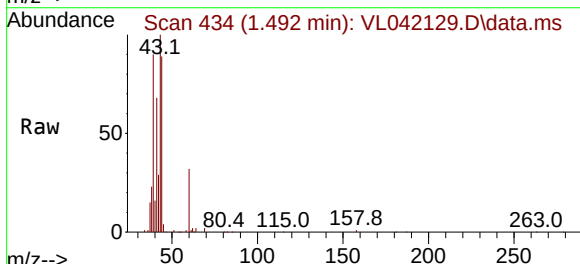
Instrument :
MSVOA_L
ClientSampleId :
IA1

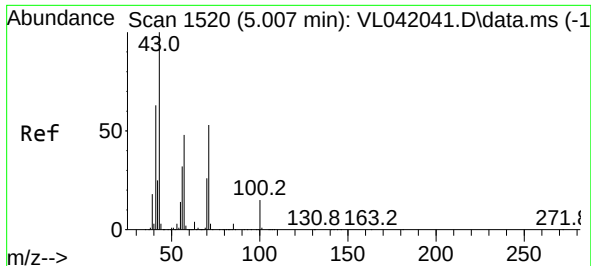
Tgt Ion: 50 Resp: 3411
Ion Ratio Lower Upper
50 100
52 18.4 25.4 38.0#



#9
Propene
Concen: 1.397 ppbv m
RT: 1.492 min Scan# 434
Delta R.T. 0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 41 Resp: 12884
Ion Ratio Lower Upper
41 100
42 122.6 55.8 83.6#

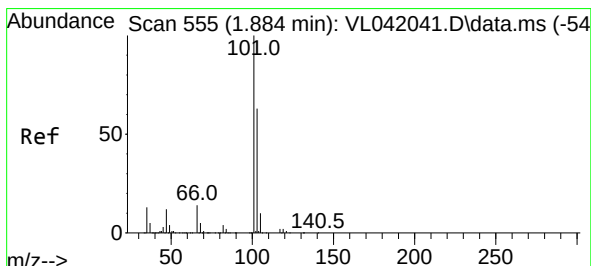
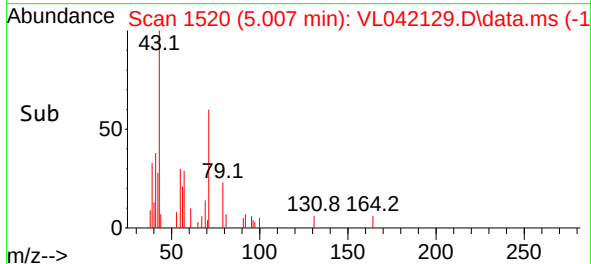
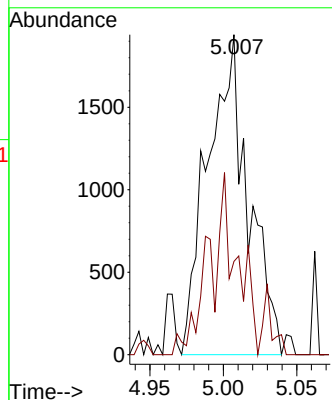
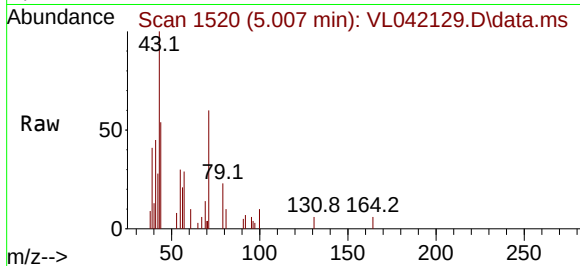




#10
Heptane
Concen: 0.129 ppbv m
RT: 5.007 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

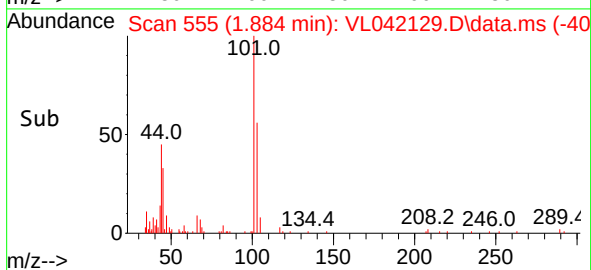
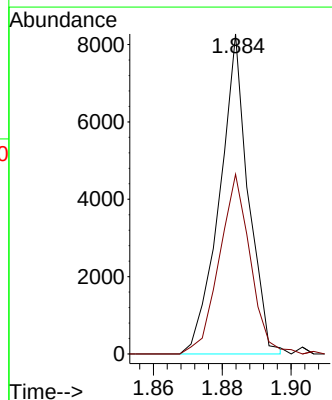
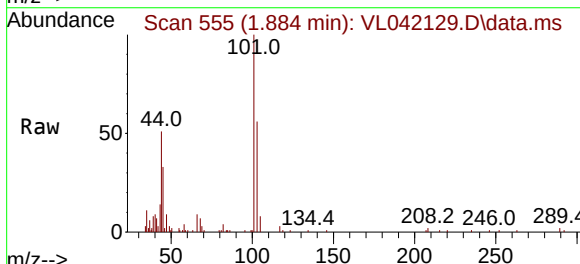
Instrument :
MSVOA_L
ClientSampleId :
IA1

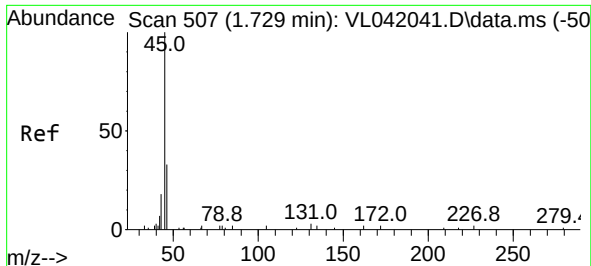
Tgt Ion: 43 Resp: 3718
Ion Ratio Lower Upper
43 100
57 44.7 39.4 59.0



#11
Trichlorofluoromethane
Concen: 0.296 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion:101 Resp: 4807
Ion Ratio Lower Upper
101 100
103 56.1 50.6 75.8

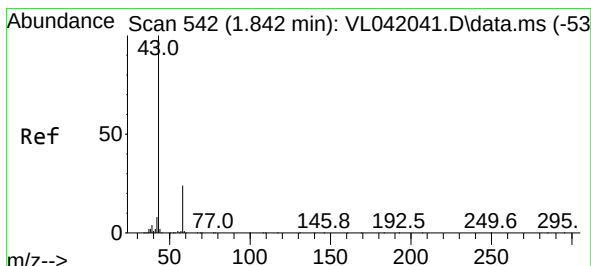
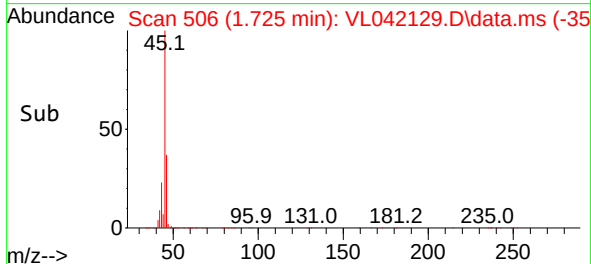
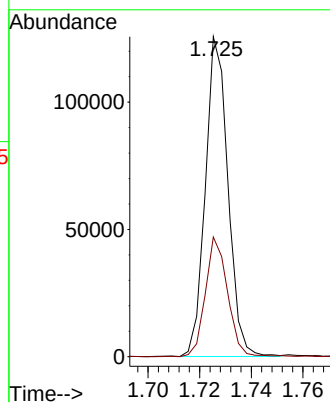
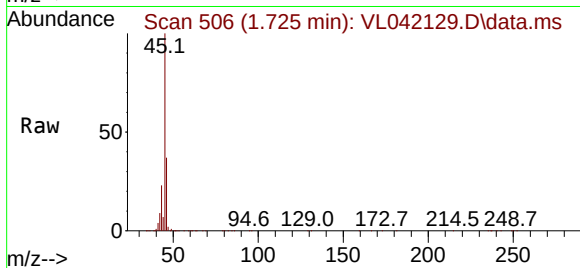




#13
Ethanol
Concen: 130.528 ppbv
RT: 1.725 min Scan# 507
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

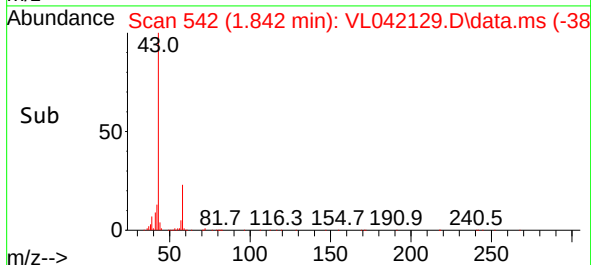
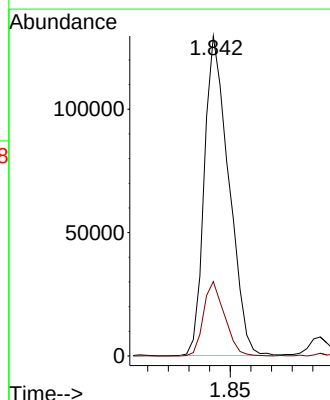
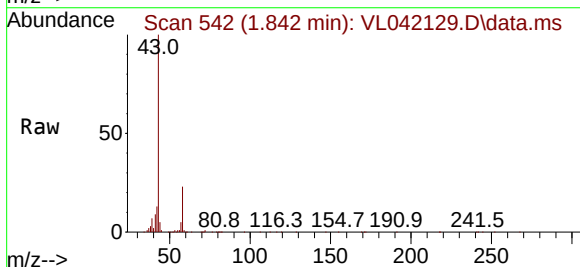
Instrument :
MSVOA_L
ClientSampleId :
IA1

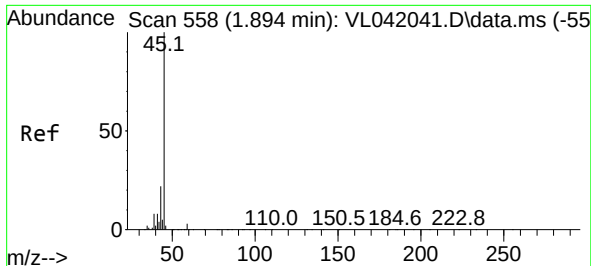
Tgt Ion: 45 Resp: 76408
Ion Ratio Lower Upper
45 100
46 37.1 17.1 68.3



#15
Acetone
Concen: 7.751 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 43 Resp: 106603
Ion Ratio Lower Upper
43 100
58 20.1 20.7 31.1#

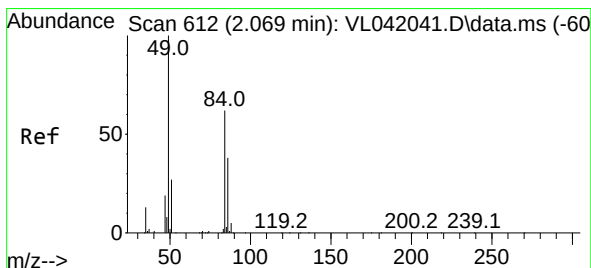
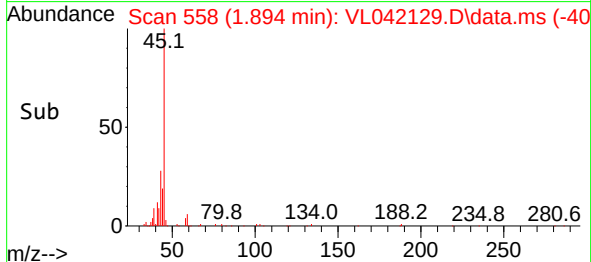
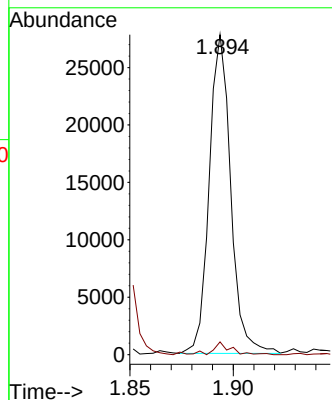
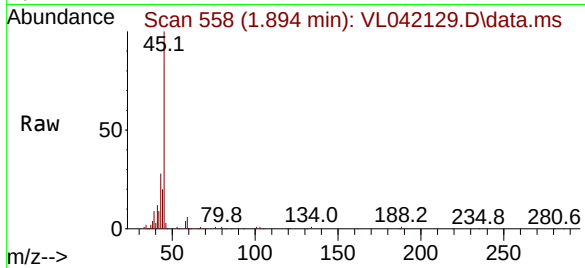




#19
Isopropyl Alcohol
Concen: 2.550 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

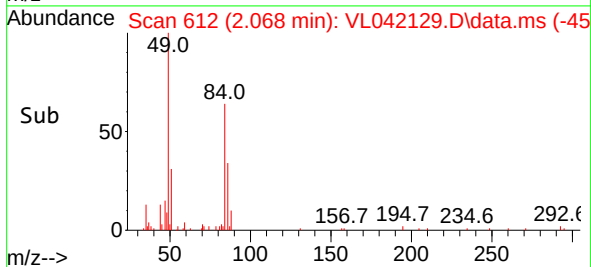
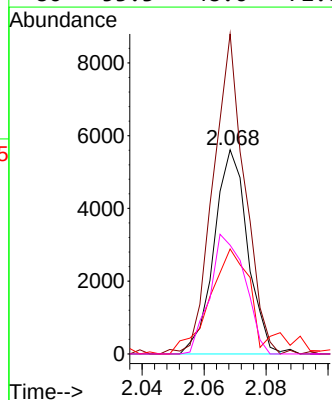
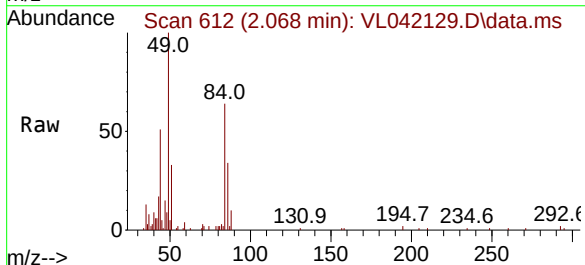
Instrument :
MSVOA_L
ClientSampleId :
IA1

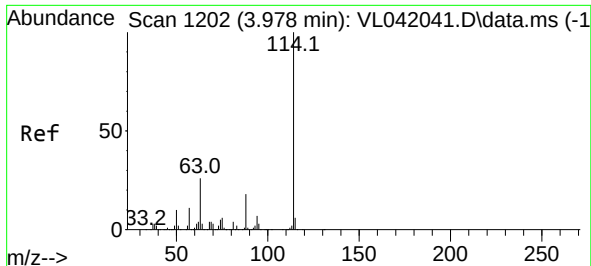
Tgt Ion: 45 Resp: 20146
Ion Ratio Lower Upper
45 100
58 106.8 35.3 52.9#



#20
Methylene Chloride
Concen: 0.808 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 84 Resp: 4206
Ion Ratio Lower Upper
84 100
49 156.7 130.0 195.0
51 45.0 37.4 56.0
86 53.3 48.6 72.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL042129.D

Acq: 10 Mar 2025 17:20

Instrument :

MSVOA_L

ClientSampleId :

IA1

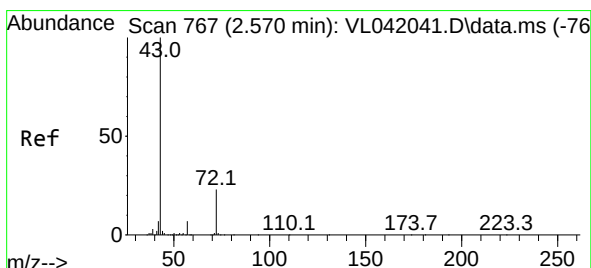
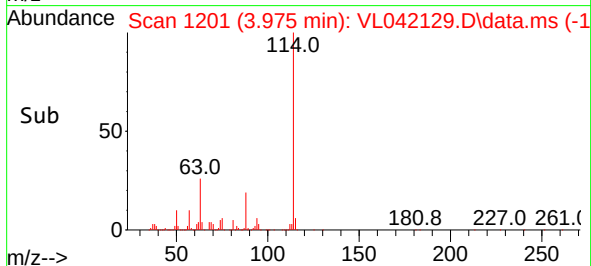
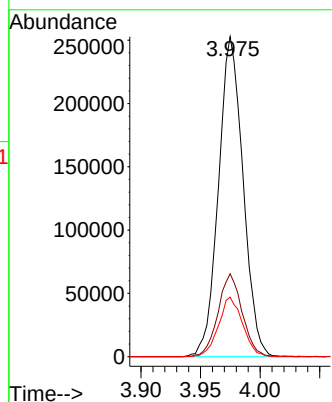
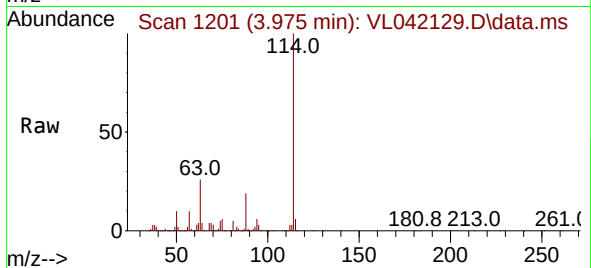
Tgt Ion:114 Resp: 361993

Ion Ratio Lower Upper

114 100

63 25.6 20.1 30.1

88 18.2 14.3 21.5



#34

2-Butanone

Concen: 0.262 ppbv

RT: 2.570 min Scan# 767

Delta R.T. -0.000 min

Lab File: VL042129.D

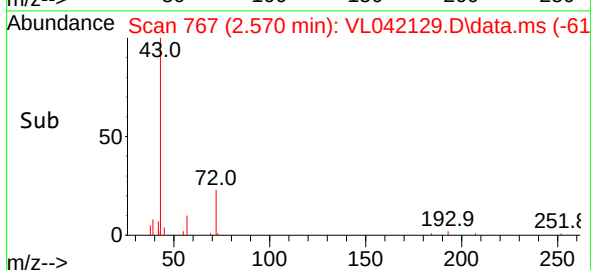
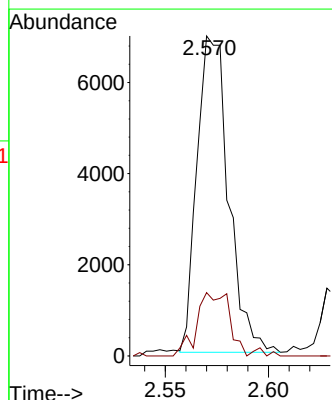
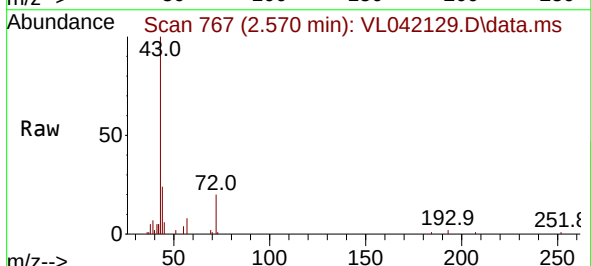
Acq: 10 Mar 2025 17:20

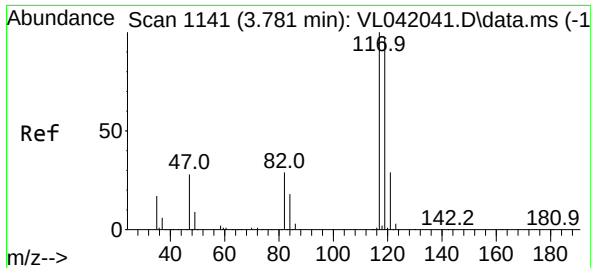
Tgt Ion: 43 Resp: 7380

Ion Ratio Lower Upper

43 100

72 21.5 18.5 27.7

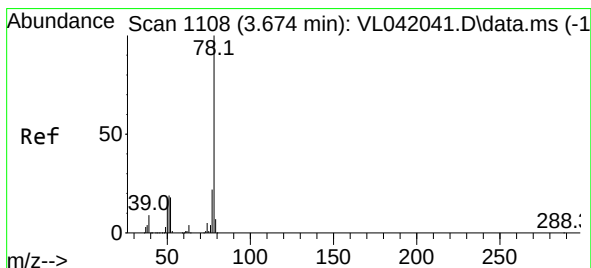
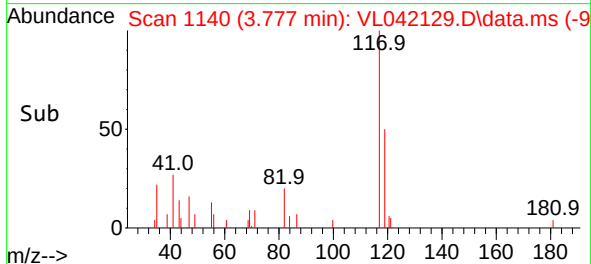
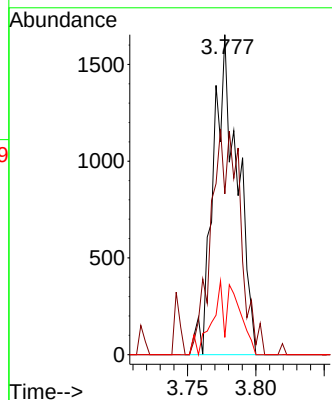
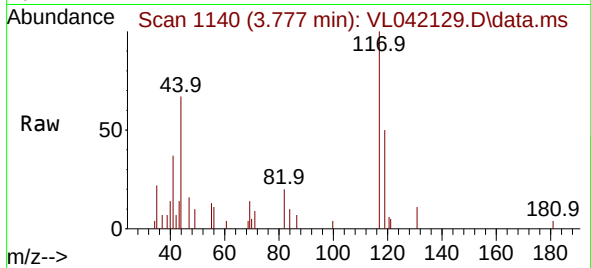




#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 3.777 min Scan# 1141
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

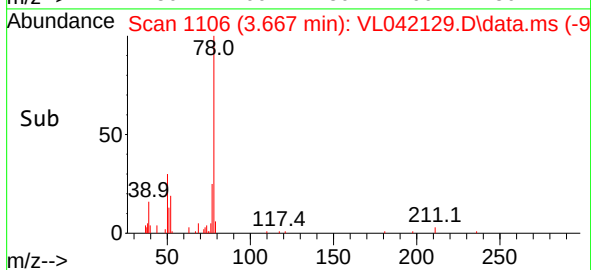
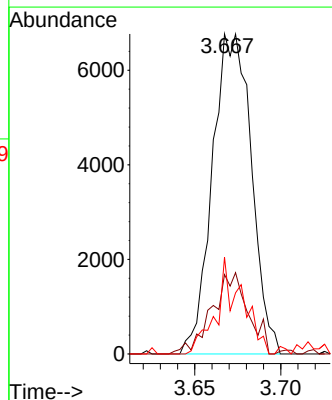
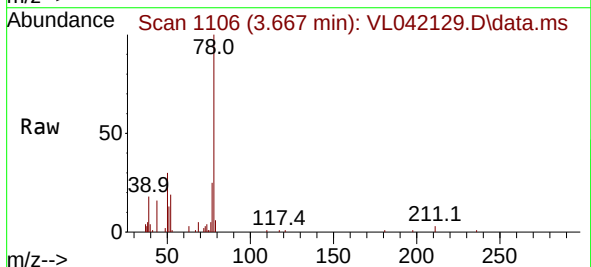
Instrument :
MSVOA_L
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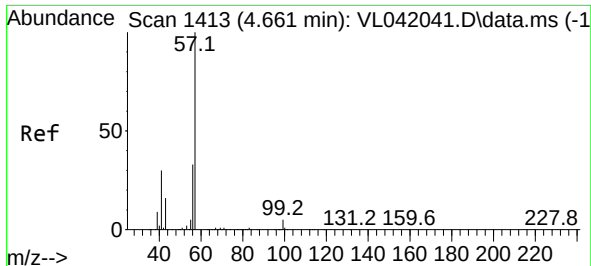
Tgt Ion:117 Resp: 2021
Ion Ratio Lower Upper
117 100
119 50.2 77.8 116.8#
121 5.4 23.4 35.0#



#36
Benzene
Concen: 0.282 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. -0.007 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 78 Resp: 10673
Ion Ratio Lower Upper
78 100
77 24.0 17.7 26.5
50 30.2 13.9 20.9#





#44

2,2,4-Trimethylpentane

Concen: 0.160 ppbv m

RT: 4.654 min Scan# 1411

Delta R.T. -0.007 min

Lab File: VL042129.D

Acq: 10 Mar 2025 17:20

Instrument :

MSVOA_L

ClientSampleId :

IA1

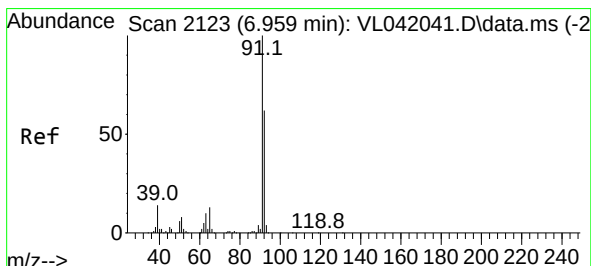
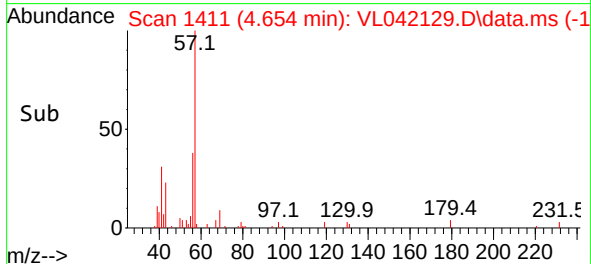
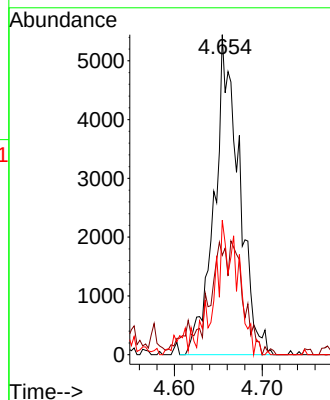
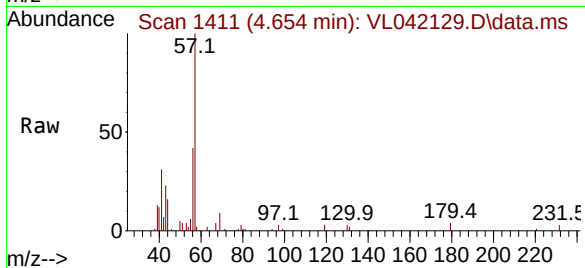
Tgt Ion: 57 Resp: 10669

Ion Ratio Lower Upper

57 100

41 0.0 24.4 36.6#

56 44.2 26.5 39.7#



#53

Toluene

Concen: 0.535 ppbv m

RT: 6.952 min Scan# 2121

Delta R.T. -0.007 min

Lab File: VL042129.D

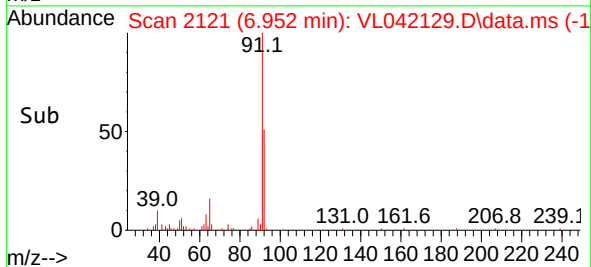
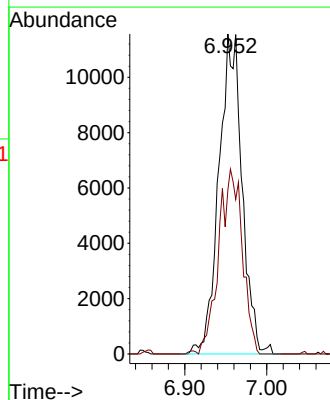
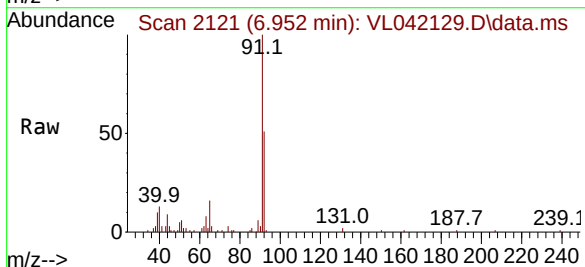
Acq: 10 Mar 2025 17:20

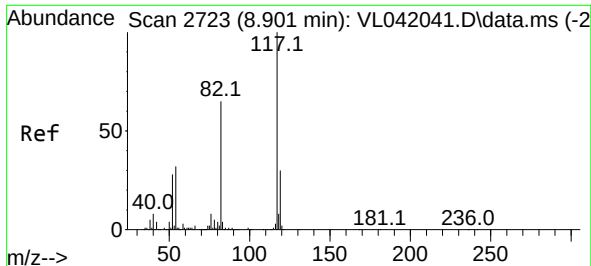
Tgt Ion: 91 Resp: 22652

Ion Ratio Lower Upper

91 100

92 59.0 49.0 73.6

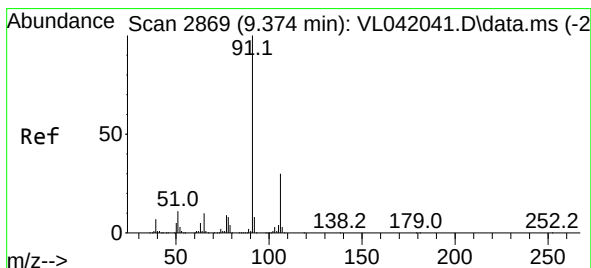
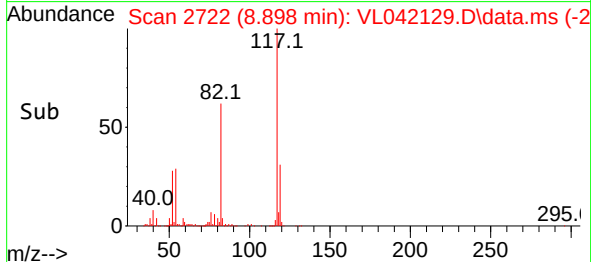
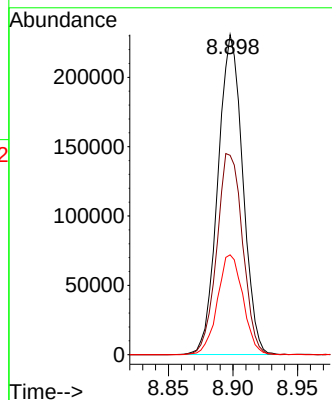
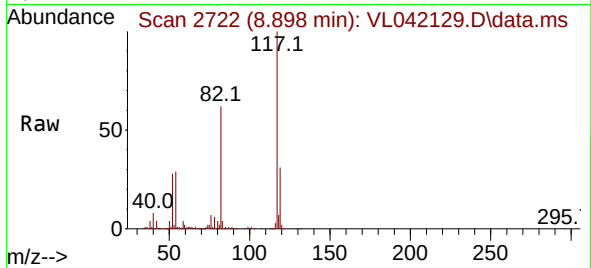




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

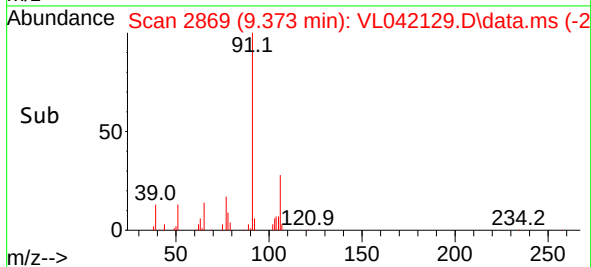
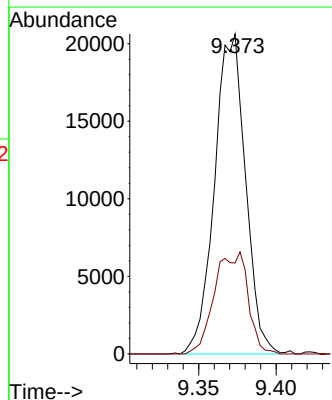
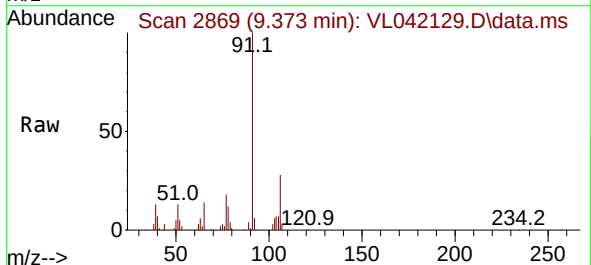
Instrument :
MSVOA_L
ClientSampleId :
IA1

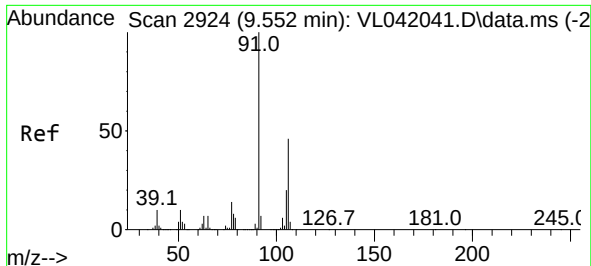
Tgt Ion:117 Resp: 308529
Ion Ratio Lower Upper
117 100
82 65.4 55.0 82.6
119 32.2 25.9 38.9



#58
Ethyl Benzene
Concen: 0.504 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042129.D
Acq: 10 Mar 2025 17:20

Tgt Ion: 91 Resp: 28623
Ion Ratio Lower Upper
91 100
106 28.5 24.2 36.2





#59

m/p-Xylene

Concen: 4.423 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042129.D

Acq: 10 Mar 2025 17:20

Instrument :

MSVOA_L

ClientSampleId :

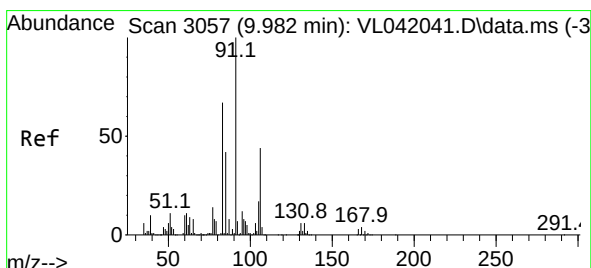
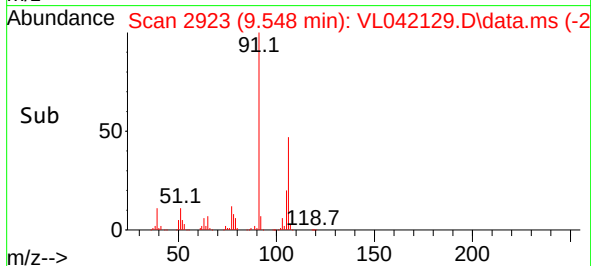
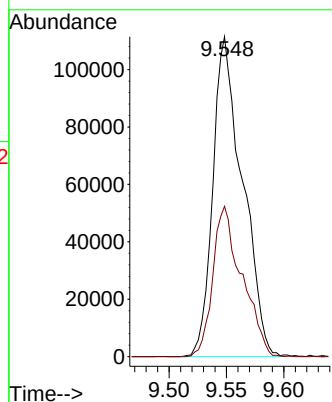
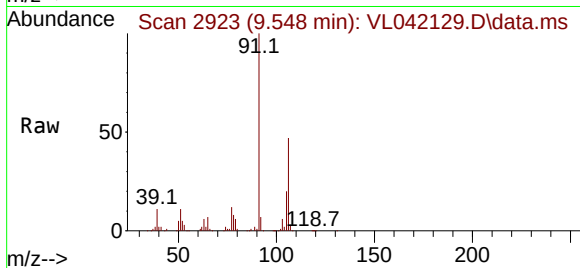
IA1

Tgt Ion: 91 Resp: 200012

Ion Ratio Lower Upper

91 100

106 46.2 0.0 0.0#



#60

o-Xylene

Concen: 1.256 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. -0.003 min

Lab File: VL042129.D

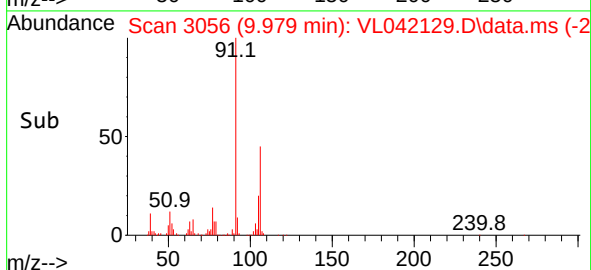
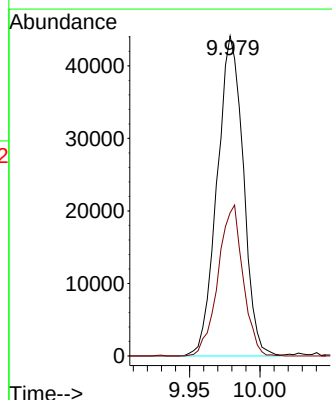
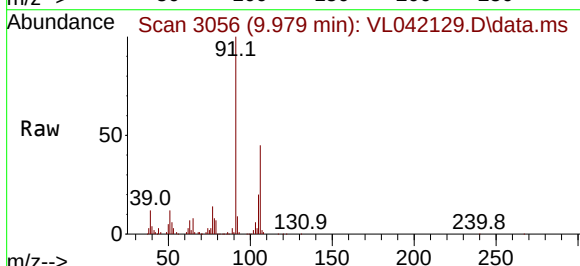
Acq: 10 Mar 2025 17:20

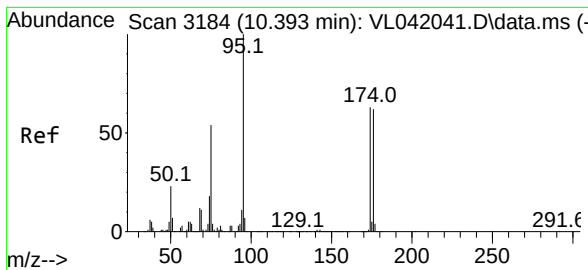
Tgt Ion: 91 Resp: 57106

Ion Ratio Lower Upper

91 100

106 44.9 22.3 66.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.918 ppbv
 RT: 10.390 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL042129.D
 Acq: 10 Mar 2025 17:20

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 95 Resp: 259167
 Ion Ratio Lower Upper
 95 100
 174 62.6 51.8 77.6
 175 4.4 3.9 5.9

