

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042236.D
 Acq On : 07 Apr 2025 17:44
 Operator : SY/MD
 Sample : Q1725-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B10-4-04012025DL

Quant Time: Apr 08 01:33:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	203982	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	532301	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	458285	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	357544	9.500	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	1489	0.049	ppbv #	80
4) Chloromethane	1.538	50	400	0.032	ppbv #	61
9) Propene	1.492	41	3786	0.268	ppbv	89
13) Ethanol	1.729	45	17823	13.369	ppbv #	27
15) Acetone	1.845	43	96697	3.390	ppbv	94
16) 1,3-Butadiene	1.628	39	2198	0.158	ppbv #	11
17) tert-Butyl alcohol	2.055	59	1997	0.056	ppbv #	67
18) 1,1-Dichloroethene	2.042	96	1841	0.163	ppbv	99
19) Isopropyl Alcohol	1.897	45	46008	2.858	ppbv	88
20) Methylene Chloride	2.072	84	2207	0.208	ppbv	94
23) Vinyl Acetate	2.483	43	632	0.051	ppbv #	81
26) Hexane	2.839	57	1499	0.052	ppbv #	1
29) Chloroform	2.865	83	1667671	39.844	ppbv	93
34) 2-Butanone	2.577	43	3813	0.099	ppbv	96
35) Carbon Tetrachloride	3.787	117	8468	0.204	ppbv	97
39) 1,2-Dichloropropane	3.981	63	135654	7.059	ppbv #	23
52) Tetrachloroethene	8.244	164	3651	0.174	ppbv	85
74) 1,2,4-Trimethylbenzene	11.549	105	2806	0.034	ppbv #	65

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

Quant Time: Apr 08 01:33:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

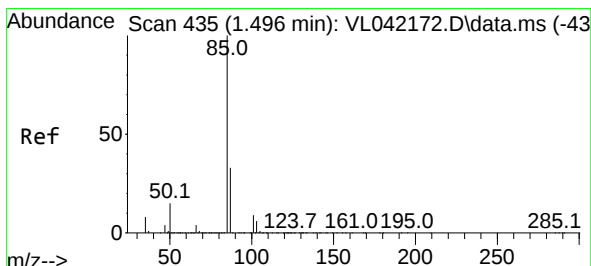
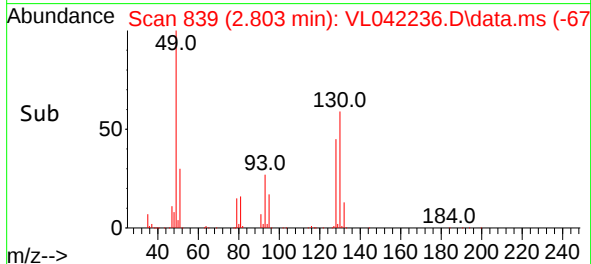
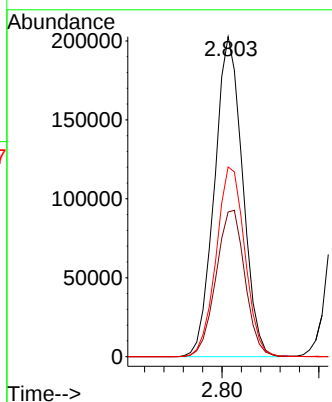
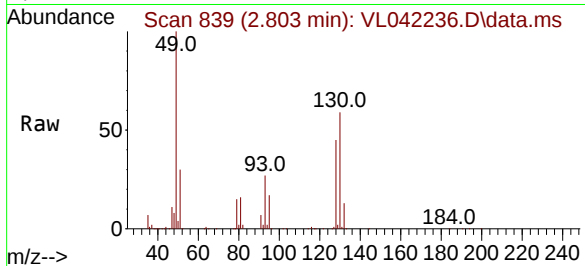




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

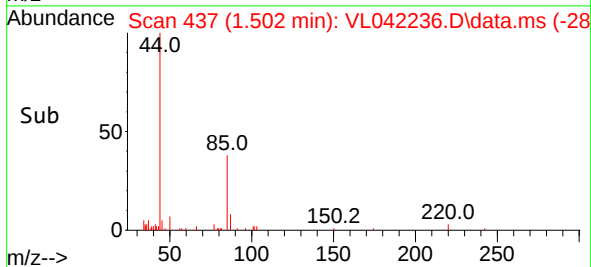
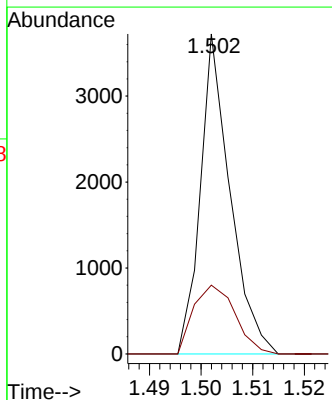
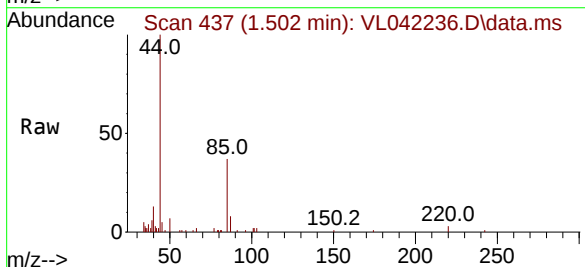
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

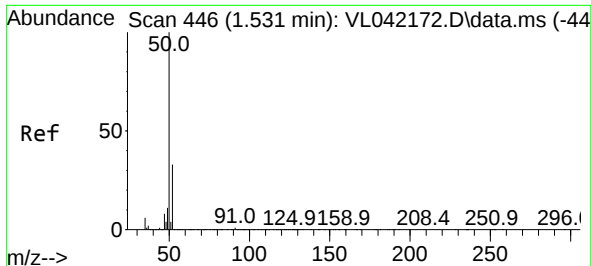
Tgt Ion: 49 Resp: 203982
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.5
130 60.7 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 85 Resp: 1489
Ion Ratio Lower Upper
85 100
87 21.5 26.1 39.1#

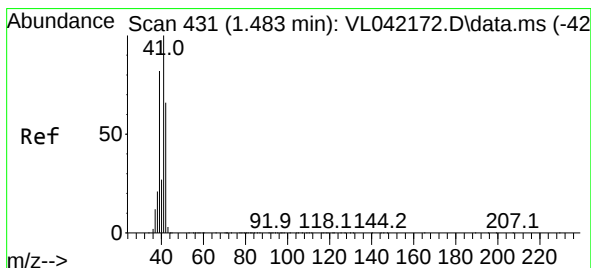
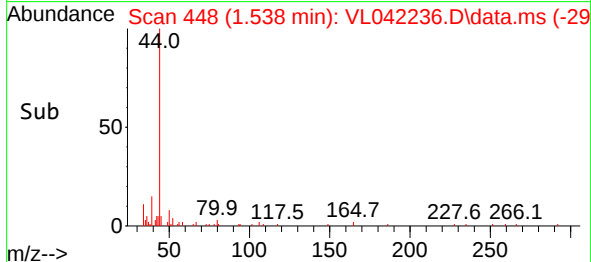
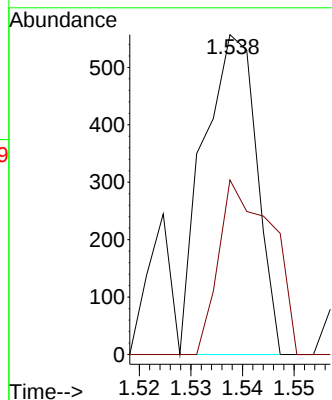
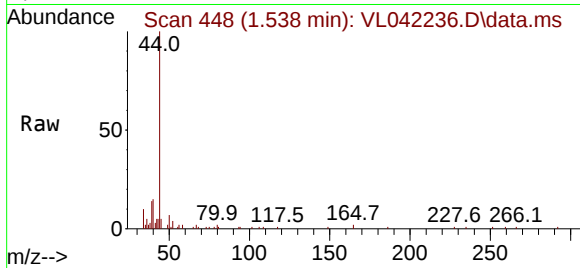




#4
Chloromethane
Concen: 0.032 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

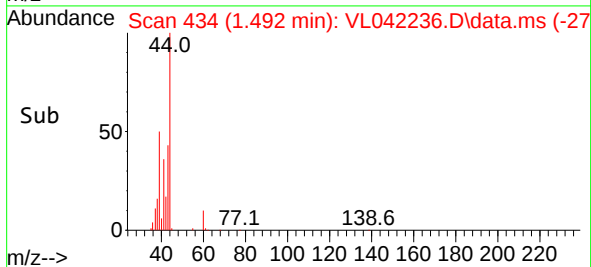
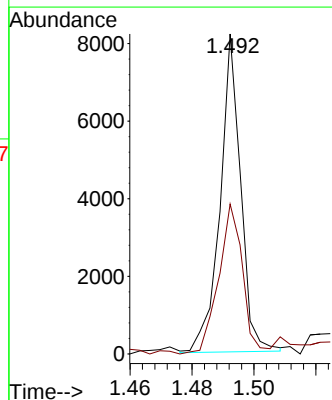
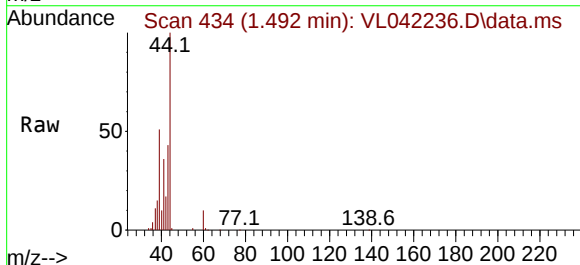
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B10-4-04012025DL

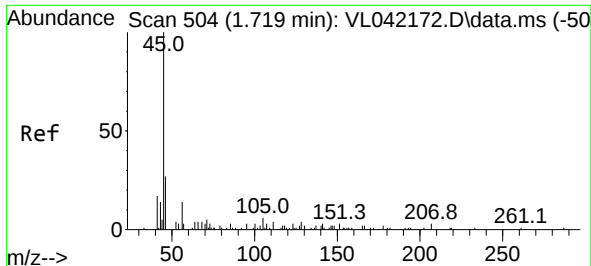
Tgt Ion: 50 Resp: 400
Ion Ratio Lower Upper
50 100
52 54.6 26.1 39.1#



#9
Propene
Concen: 0.268 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.009 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 41 Resp: 3786
Ion Ratio Lower Upper
41 100
42 60.4 55.4 83.2

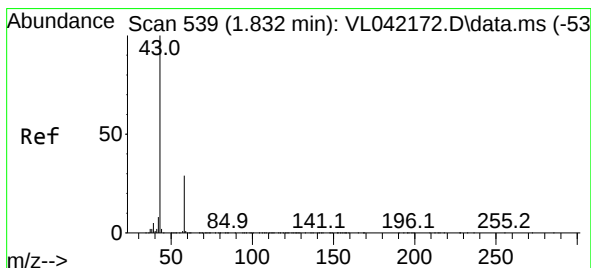
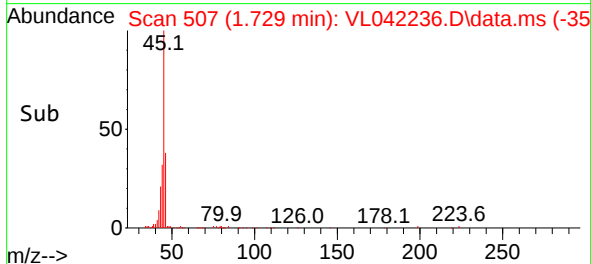
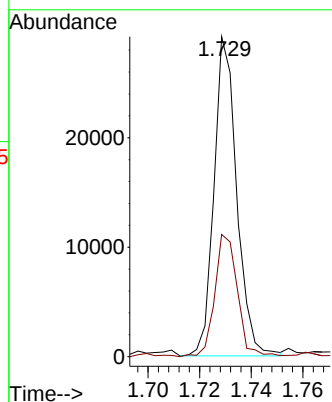
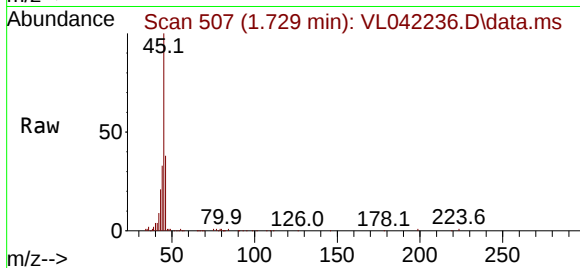




#13
Ethanol
Concen: 13.369 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.009 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

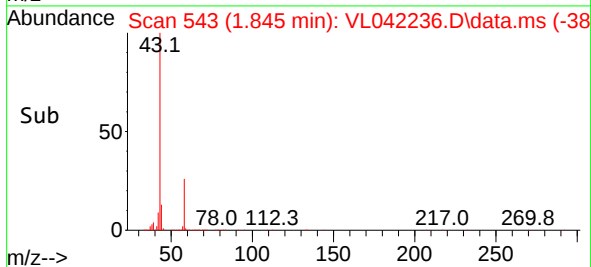
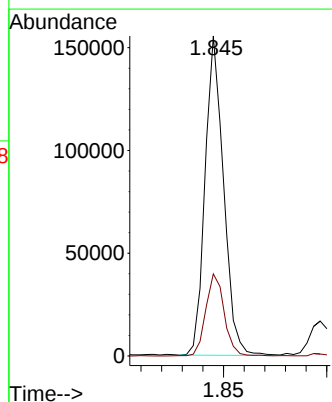
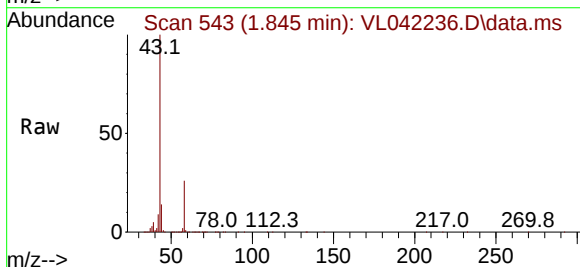
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

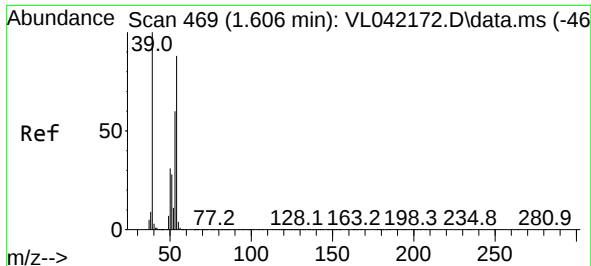
Tgt Ion: 45 Resp: 17823
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#



#15
Acetone
Concen: 3.390 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 43 Resp: 96697
Ion Ratio Lower Upper
43 100
58 25.7 23.2 34.8





#16

1,3-Butadiene

Concen: 0.158 ppbv

RT: 1.628 min Scan# 41

Delta R.T. 0.022 min

Lab File: VL042236.D

Acq: 07 Apr 2025 17:44

Instrument :

MSVOA_L

ClientSampleId :

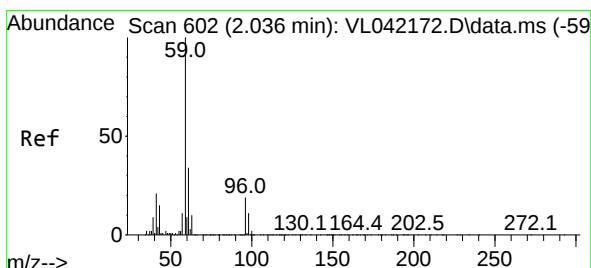
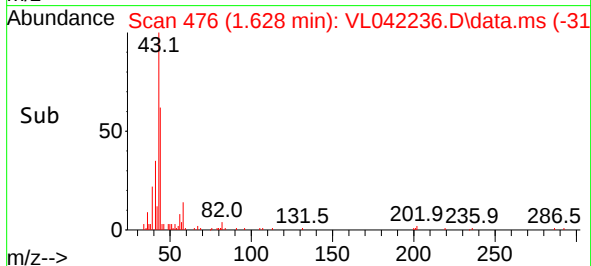
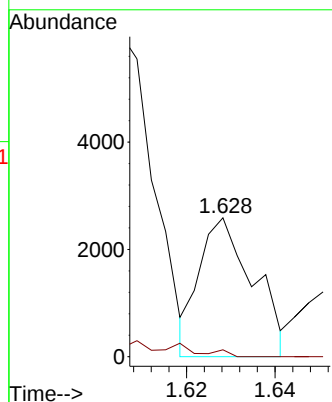
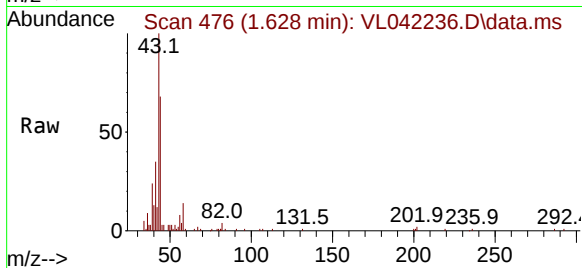
SSSG-B10-4-04012025DL

Tgt Ion: 39 Resp: 2198

Ion Ratio Lower Upper

39 100

54 0.0 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.056 ppbv

RT: 2.055 min Scan# 608

Delta R.T. 0.019 min

Lab File: VL042236.D

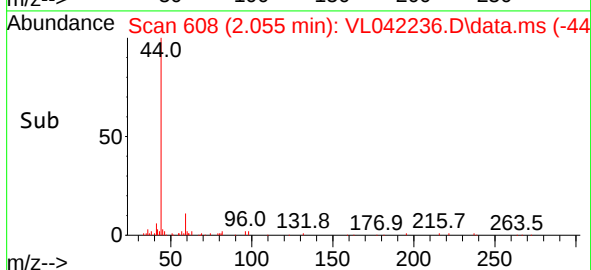
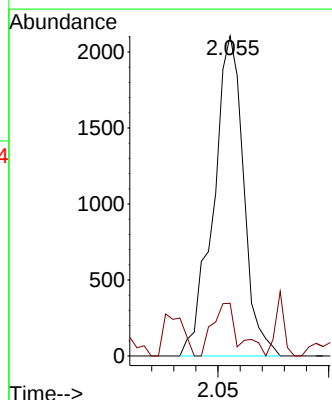
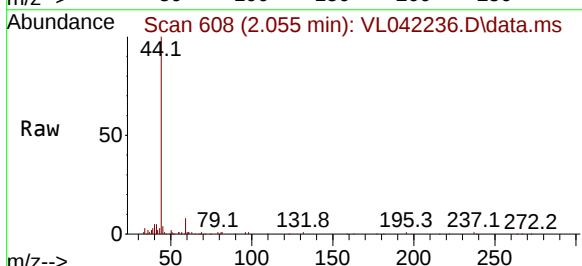
Acq: 07 Apr 2025 17:44

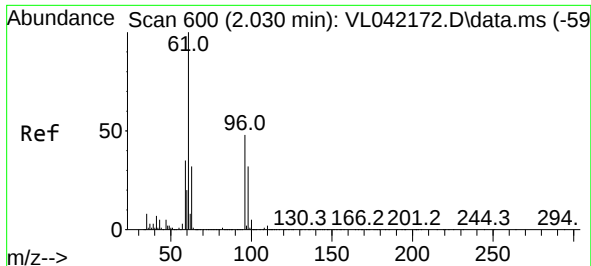
Tgt Ion: 59 Resp: 1997

Ion Ratio Lower Upper

59 100

57 23.6 8.9 13.3#

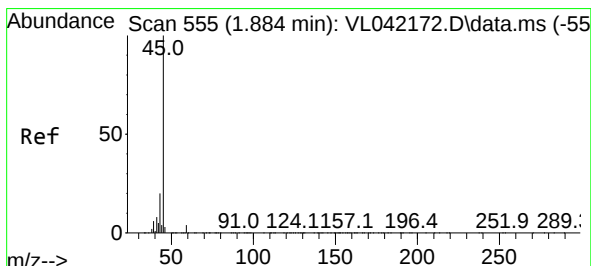
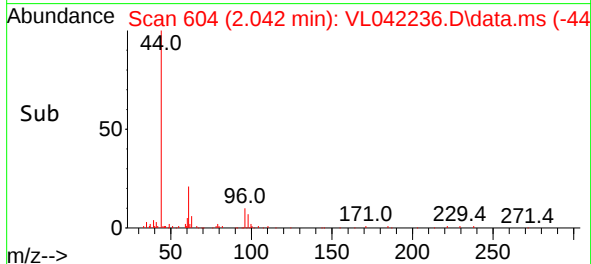
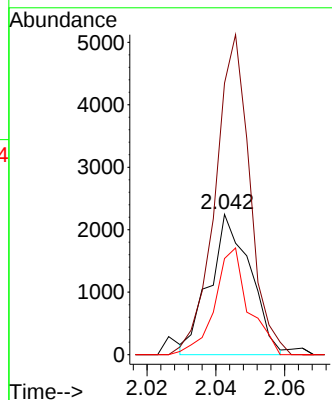
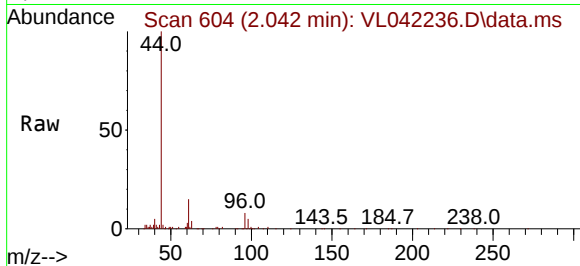




#18
1,1-Dichloroethene
Concen: 0.163 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.013 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

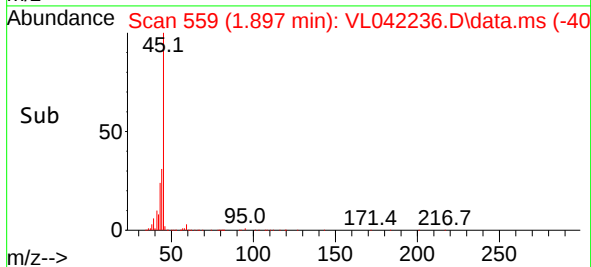
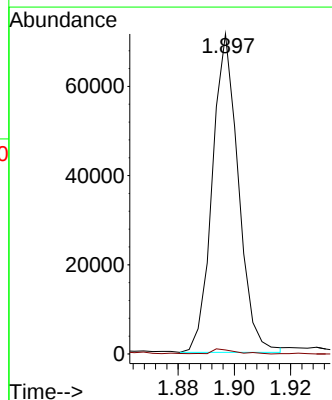
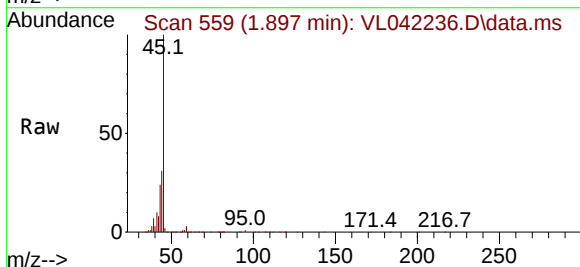
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

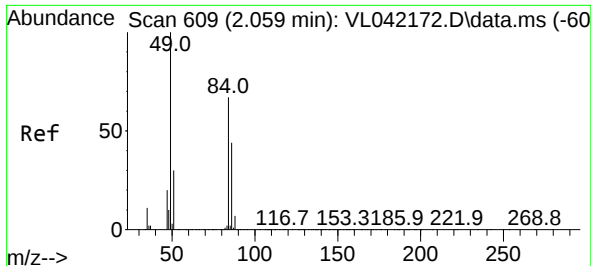
Tgt Ion: 96 Resp: 1841
Ion Ratio Lower Upper
96 100
61 209.1 167.6 251.4
98 70.8 53.5 80.3



#19
Isopropyl Alcohol
Concen: 2.858 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.013 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 45 Resp: 46008
Ion Ratio Lower Upper
45 100
58 54.2 36.9 55.3



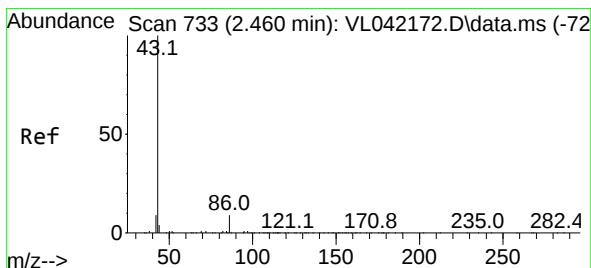
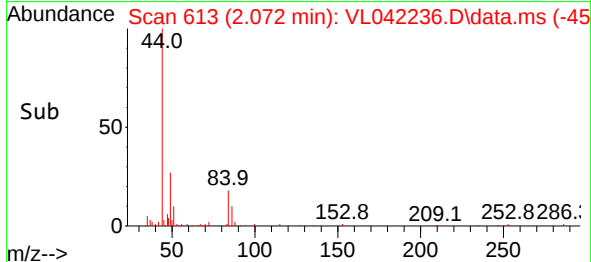
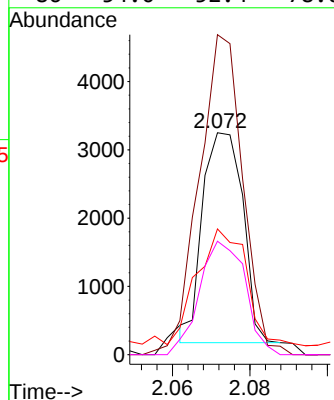
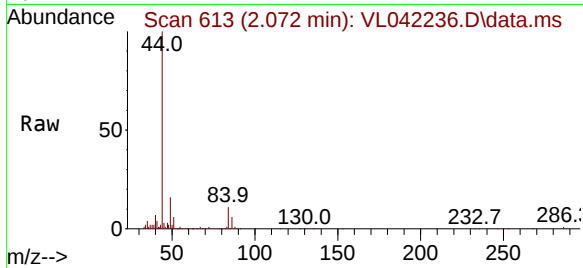


#20
Methylene Chloride
Concen: 0.208 ppbv
RT: 2.072 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

Tgt Ion: 84 Resp: 2207

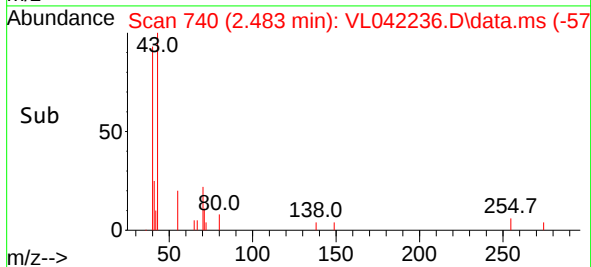
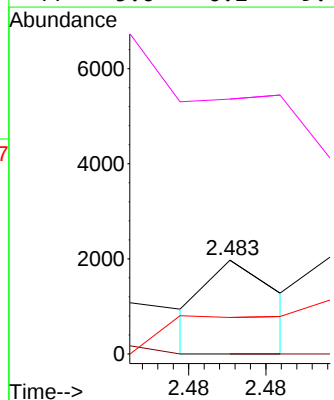
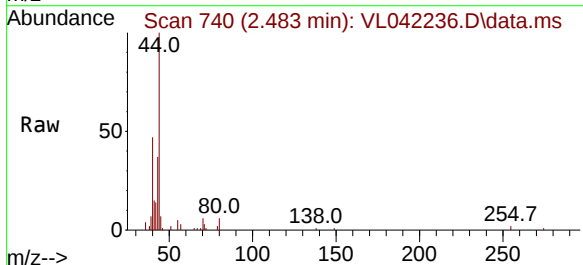
Ion	Ratio	Lower	Upper
84	100		
49	148.4	120.2	180.4
51	53.0	37.4	56.0
86	54.0	52.4	78.6

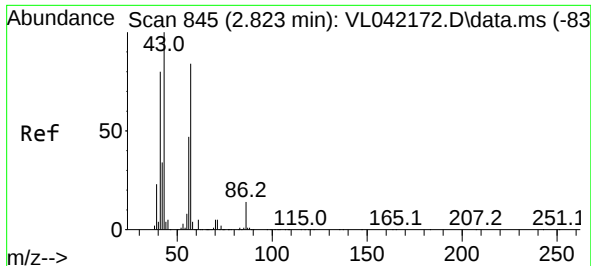


#23
Vinyl Acetate
Concen: 0.051 ppbv
RT: 2.483 min Scan# 740
Delta R.T. 0.022 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 43 Resp: 632

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.5	8.3#
42	0.0	8.6	13.0#
44	5.6	6.2	9.4#

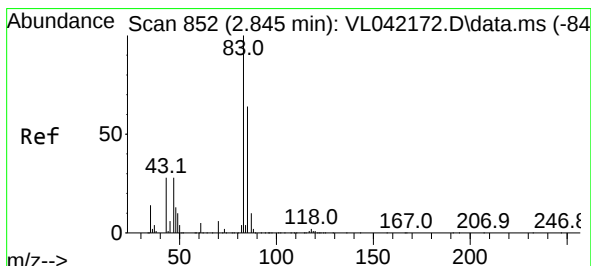
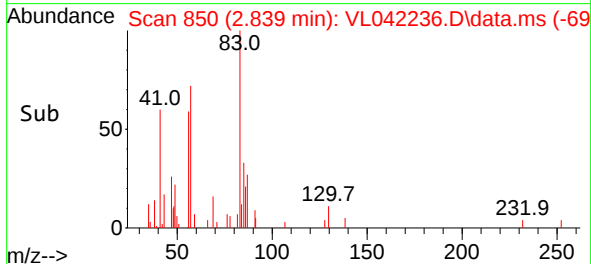
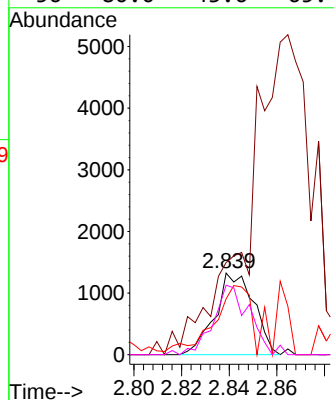
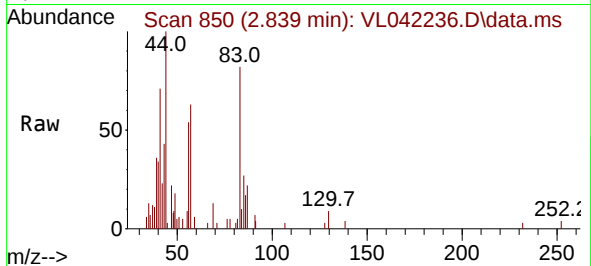




#26
Hexane
Concen: 0.052 ppbv
RT: 2.839 min Scan# 845
Delta R.T. 0.016 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

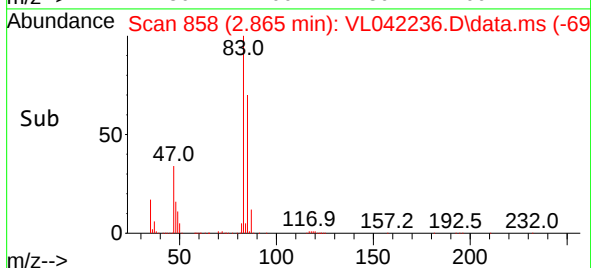
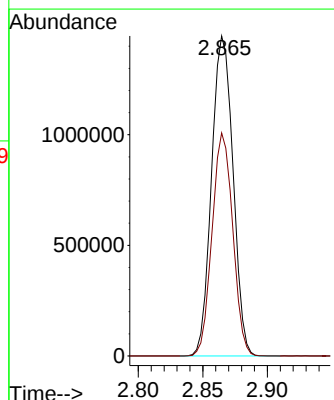
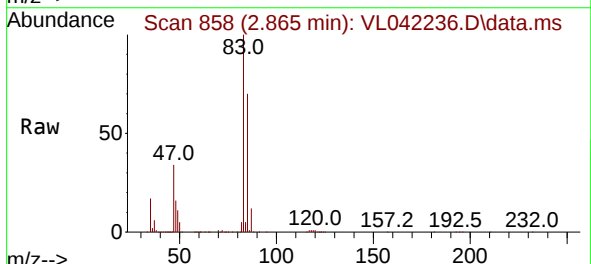
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

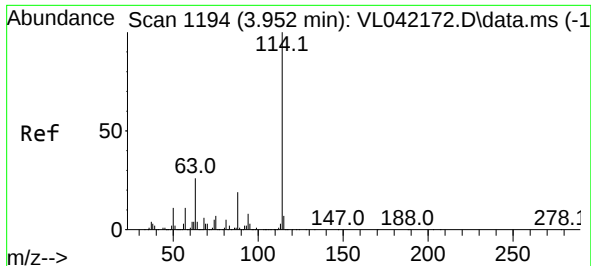
Tgt Ion: 57 Resp: 1499
Ion Ratio Lower Upper
57 100
41 0.0 76.6 114.8#
43 0.0 207.8 311.8#
56 80.0 43.6 65.4#



#29
Chloroform
Concen: 39.844 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 83 Resp: 1667671
Ion Ratio Lower Upper
83 100
85 69.7 51.4 77.2

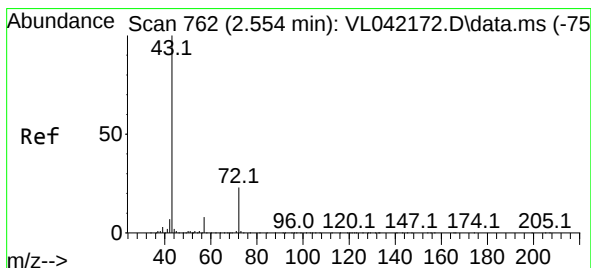
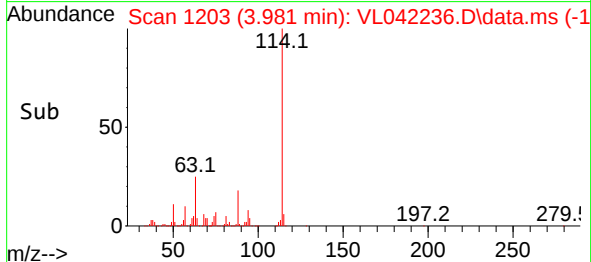
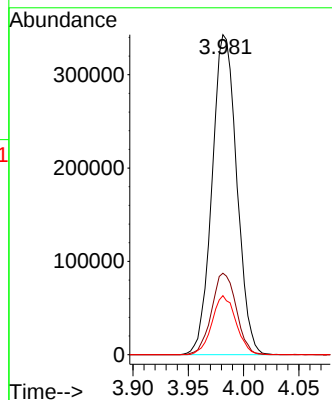
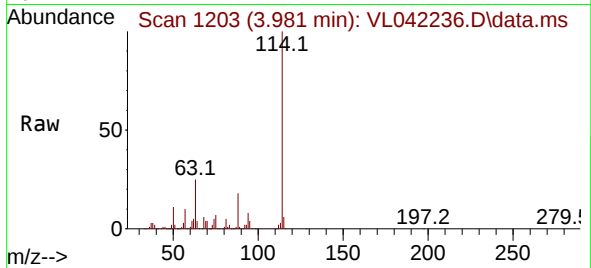




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1194
Delta R.T. 0.029 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

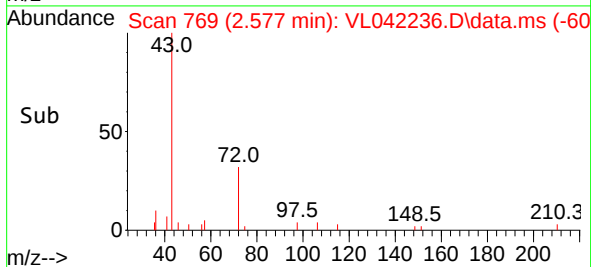
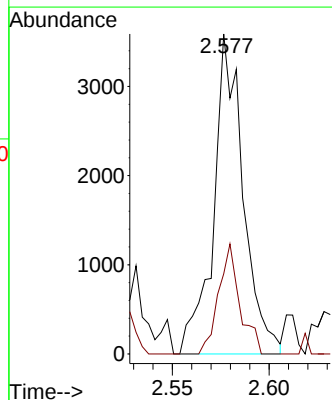
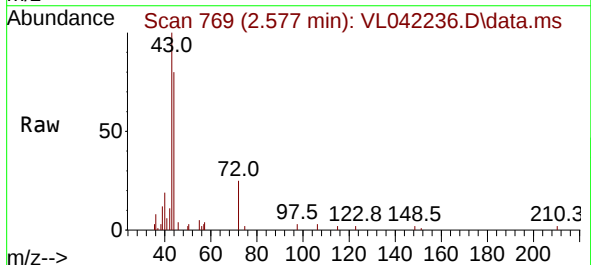
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-4-04012025DL

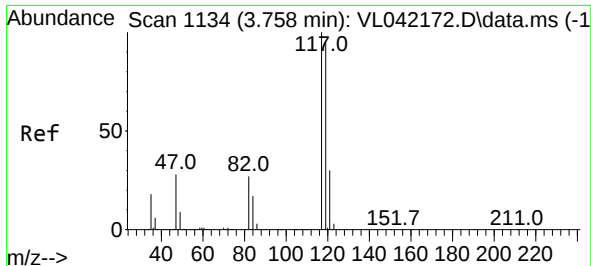
Tgt Ion:114 Resp: 532301
Ion Ratio Lower Upper
114 100
63 25.5 20.7 31.1
88 17.9 15.0 22.4



#34
2-Butanone
Concen: 0.099 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.022 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 43 Resp: 3813
Ion Ratio Lower Upper
43 100
72 24.7 18.2 27.2

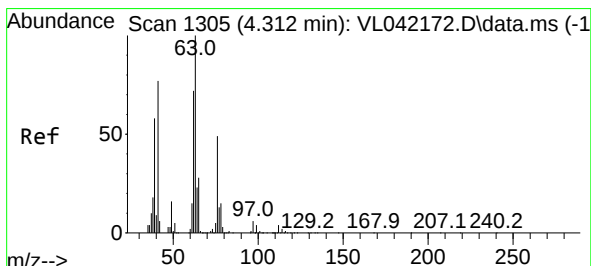
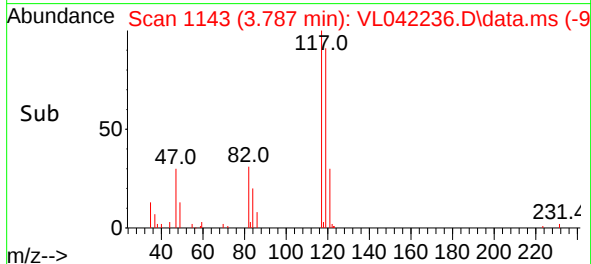
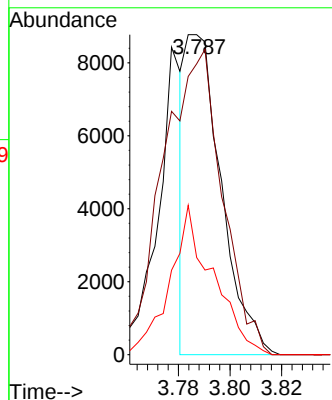
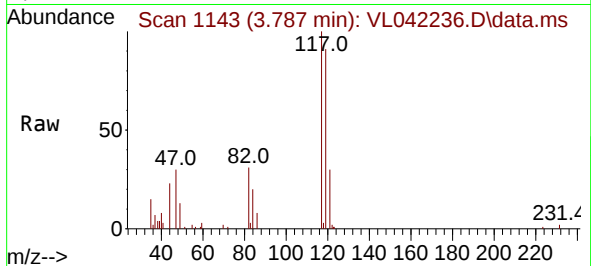




#35
Carbon Tetrachloride
Concen: 0.204 ppbv
RT: 3.787 min Scan# 1134
Delta R.T. 0.029 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

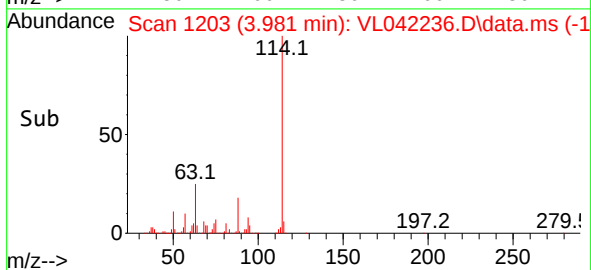
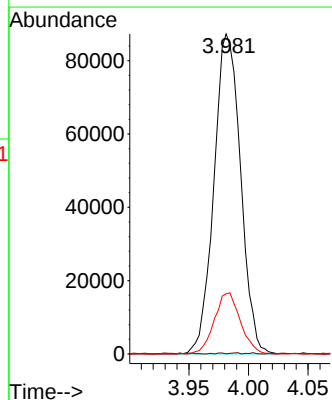
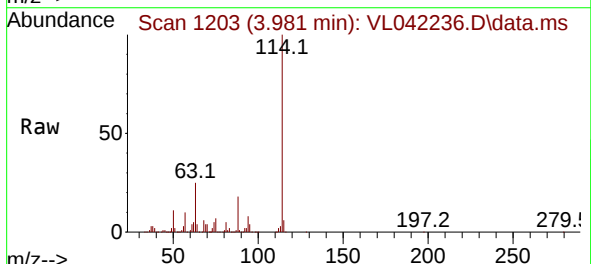
Instrument : MSVOA_L
ClientSampleId : SSSG-B10-4-04012025DL

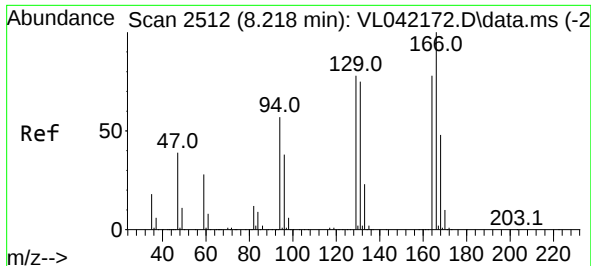
Tgt Ion:117 Resp: 8468
Ion Ratio Lower Upper
117 100
119 90.9 76.2 114.2
121 30.4 24.2 36.4



#39
1,2-Dichloropropane
Concen: 7.059 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. -0.330 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion: 63 Resp: 135654
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 18.7 57.6 86.4#



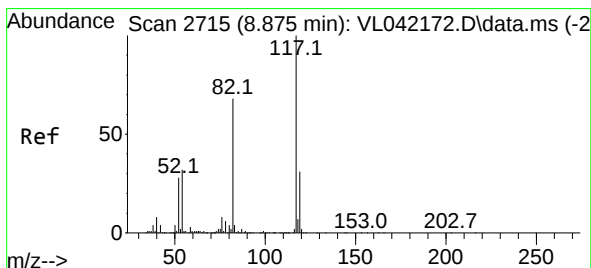
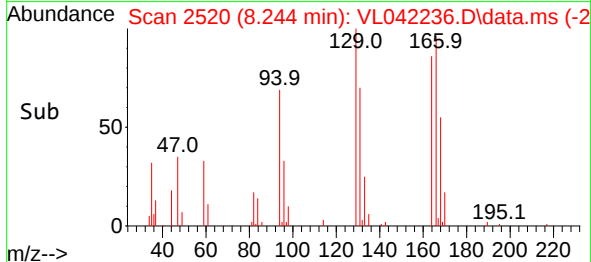
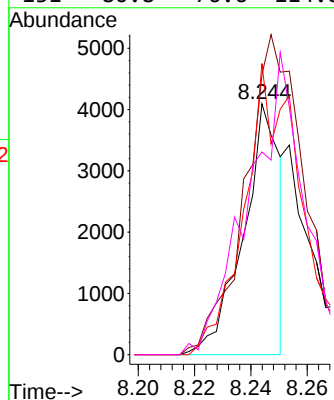
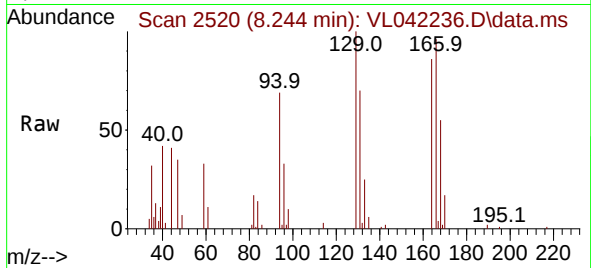


#52
Tetrachloroethene
Concen: 0.174 ppbv
RT: 8.244 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Instrument :
MSVOA_L
ClientSampleId :
SSSG-B10-4-04012025DL

Tgt Ion:164 Resp: 3651

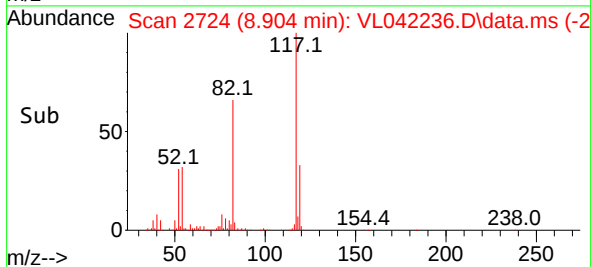
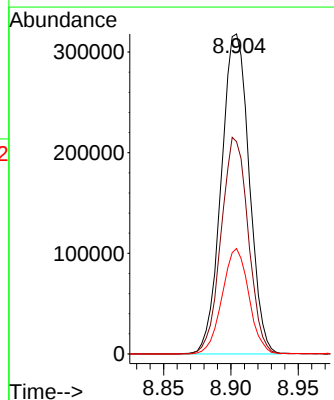
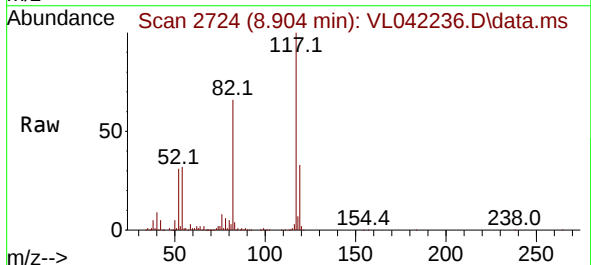
Ion	Ratio	Lower	Upper
164	100		
166	111.7	102.5	153.7
129	116.1	79.8	119.8
131	80.8	76.6	114.8

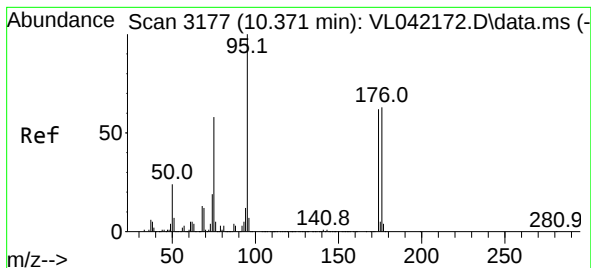


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042236.D
Acq: 07 Apr 2025 17:44

Tgt Ion:117 Resp: 458285

Ion	Ratio	Lower	Upper
117	100		
82	65.9	55.8	83.6
119	31.7	25.5	38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.500 ppbv

RT: 10.396 min Scan# 3177

Delta R.T. 0.026 min

Lab File: VL042236.D

Acq: 07 Apr 2025 17:44

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B10-4-04012025DL

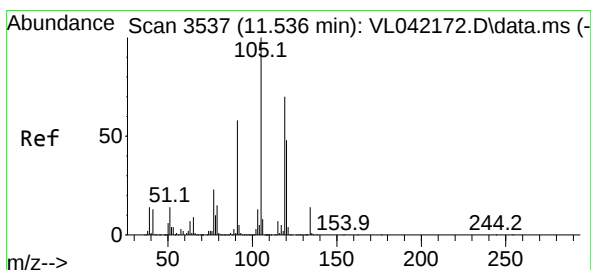
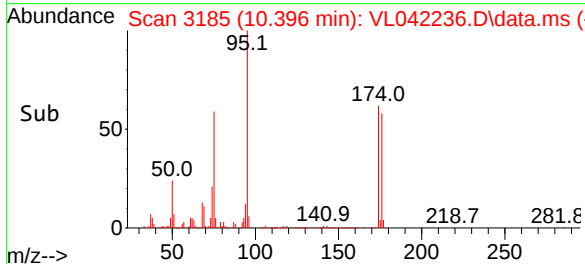
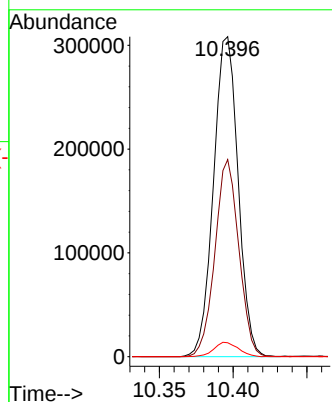
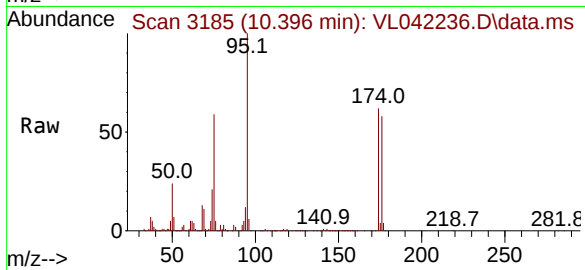
Tgt Ion: 95 Resp: 357544

Ion Ratio Lower Upper

95 100

174 60.1 50.6 76.0

175 4.5 3.8 5.6



#74

1,2,4-Trimethylbenzene

Concen: 0.034 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL042236.D

Acq: 07 Apr 2025 17:44

Tgt Ion: 105 Resp: 2806

Ion Ratio Lower Upper

105 100

120 38.8 38.6 58.0

91 19.3 46.2 69.2#

77 5.9 18.6 27.8#

