

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031025\
 Data File : VL042127.D
 Acq On : 10 Mar 2025 16:15
 Operator : SY/MD
 Sample : Q1532-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 4

Quant Time: Mar 11 01:26:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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)

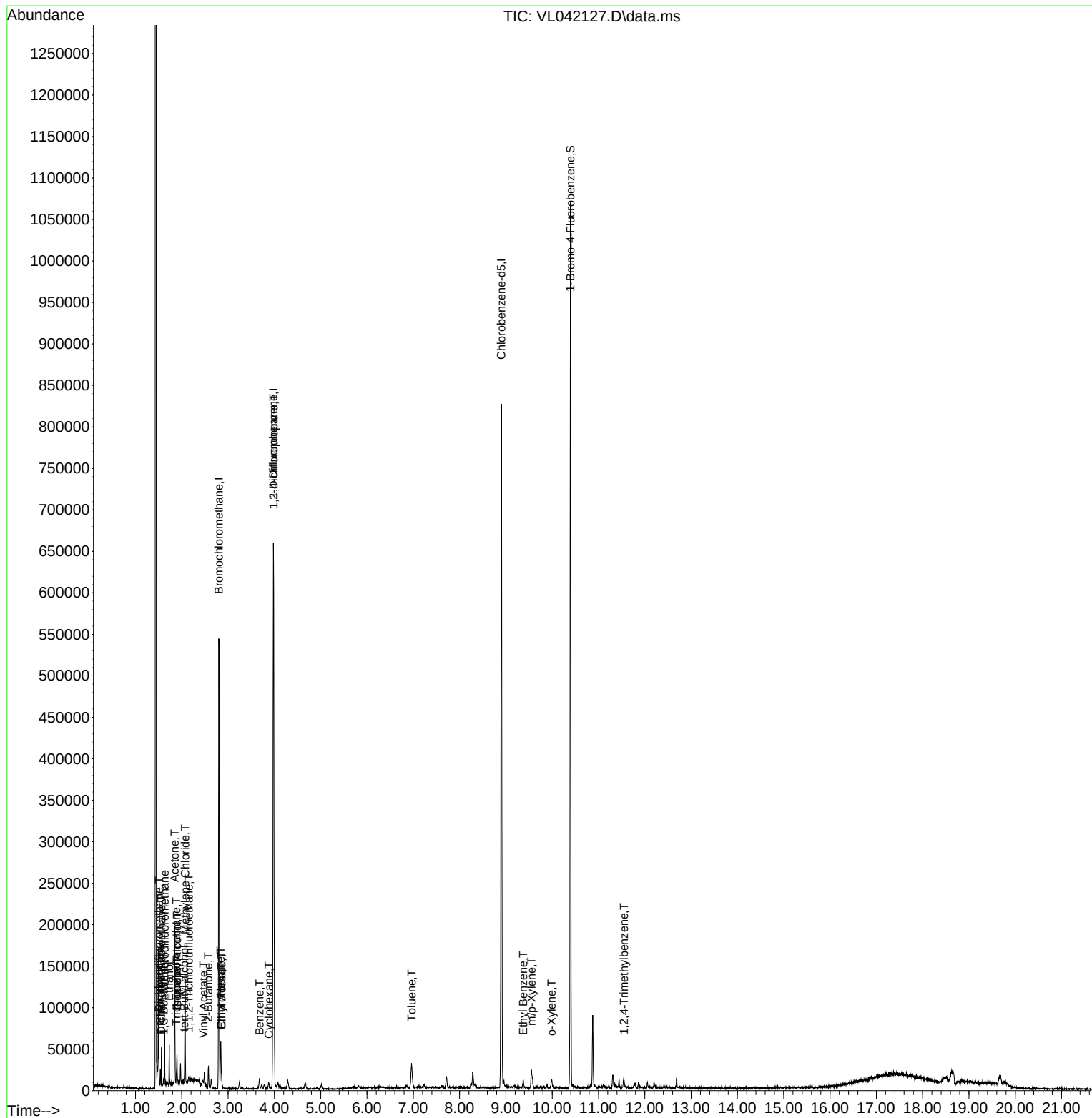
Internal Standards								
1) Bromochloromethane			2.800	49	162703	10.000	ppbv	0.00
33) 1,4-Difluorobenzene			3.978	114	379717	10.000	ppbv	0.00
55) Chlorobenzene-d5			8.901	117	323671	10.000	ppbv	0.00
System Monitoring Compounds								
68) 1-Bromo-4-Fluorobenzene			10.393	95	255866	10.275	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	102.800%	
Target Compounds								
								Qvalue
2) Dichlorodifluoromethane			1.505	85	8600	0.508	ppbv	98
3) Chlorodifluoromethane			1.628	51	827	0.035	ppbv	95
4) Chloromethane			1.538	50	3589	0.574	ppbv	95
8) Dichlorotetrafluoroethane			1.557	85	425	0.031	ppbv #	73
9) Propene			1.894	41	1620	0.168	ppbv	92
11) Trichlorofluoromethane			1.884	101	4374	0.258	ppbv	94
12) 1,1,2-Trichlorotrifluo...			2.149	101	1025	0.076	ppbv	91
13) Ethanol			1.729	45	14167	23.166	ppbv	99
15) Acetone			1.845	43	82899	5.770	ppbv	98
16) 1,3-Butadiene			1.609	39	1164	0.174	ppbv #	66
17) tert-Butyl alcohol			2.055	59	2587	0.144	ppbv #	86
19) Isopropyl Alcohol			1.897	45	14092	1.707	ppbv #	1
20) Methylene Chloride			2.072	84	18587	3.420	ppbv	97
23) Vinyl Acetate			2.470	43	1598	0.158	ppbv #	83
25) Ethyl Acetate			2.858	43	3575	0.062	ppbv #	45
26) Hexane			2.842	57	9892	0.425	ppbv #	53
29) Chloroform			2.858	83	1592	0.051	ppbv #	63
30) Cyclohexane			3.878	84	718	0.038	ppbv #	1
34) 2-Butanone			2.573	43	16205	0.548	ppbv	97
36) Benzene			3.677	78	6120	0.154	ppbv	96
39) 1,2-Dichloropropane			3.981	63	97683	6.474	ppbv #	22
53) Toluene			6.965	91	19451	0.438	ppbv	96
58) Ethyl Benzene			9.373	91	4141	0.069	ppbv	89
59) m/p-Xylene			9.551	91	10380	0.219	ppbv #	100
60) o-Xylene			9.985	91	4131	0.087	ppbv	91
74) 1,2,4-Trimethylbenzene			11.548	105	2357	0.041	ppbv #	68

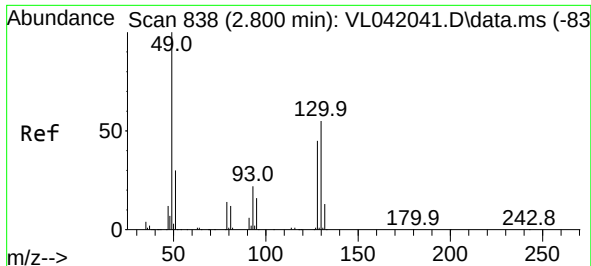
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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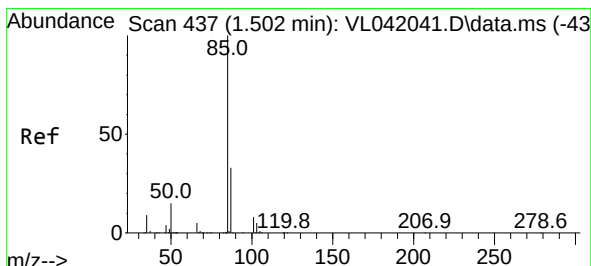
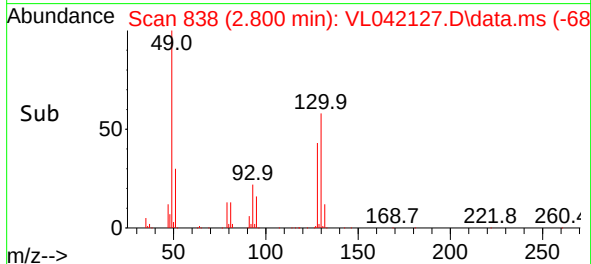
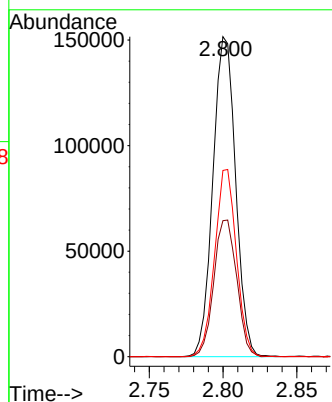
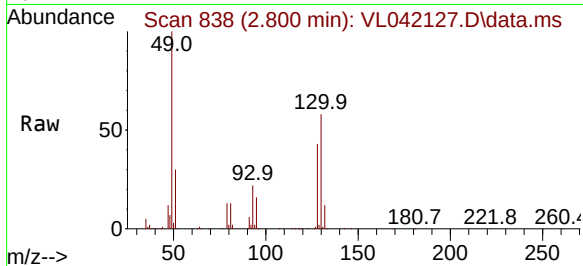




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 838
 Delta R.T. -0.000 min
 Lab File: VL042127.D
 Acq: 10 Mar 2025 16:15

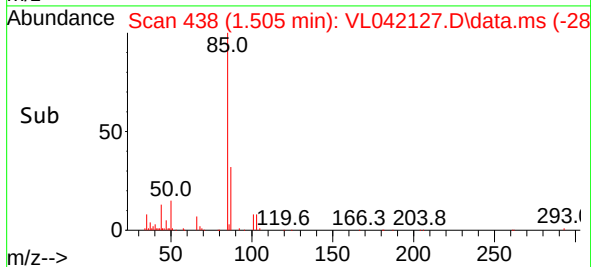
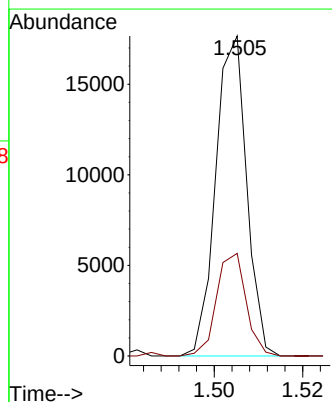
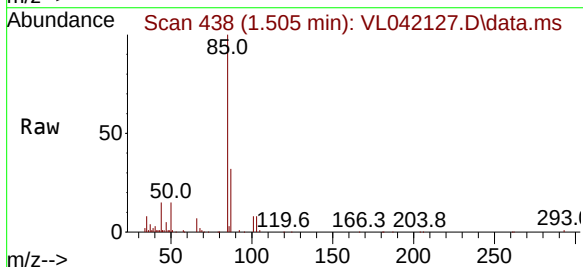
Instrument :
 MSVOA_L
 ClientSampleId :
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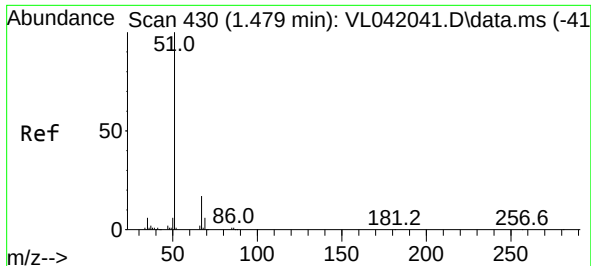
Tgt Ion: 49 Resp: 162703
 Ion Ratio Lower Upper
 49 100
 128 43.0 21.6 64.8
 130 56.1 27.8 83.4



#2
 Dichlorodifluoromethane
 Concen: 0.508 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.003 min
 Lab File: VL042127.D
 Acq: 10 Mar 2025 16:15

Tgt Ion: 85 Resp: 8600
 Ion Ratio Lower Upper
 85 100
 87 32.1 26.4 39.6

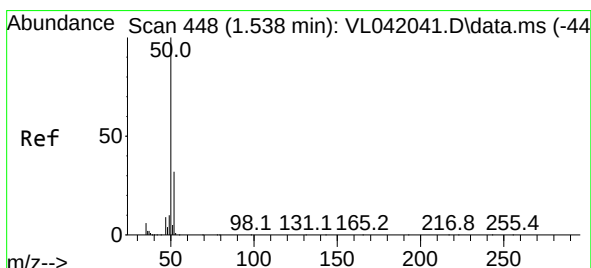
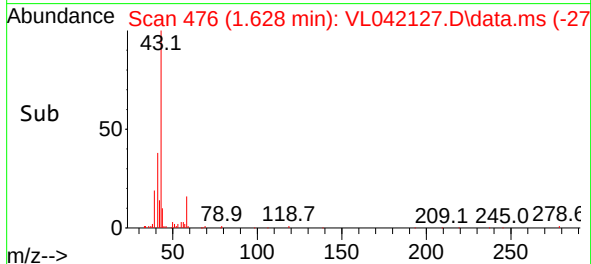
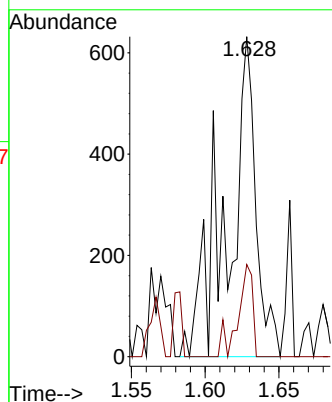
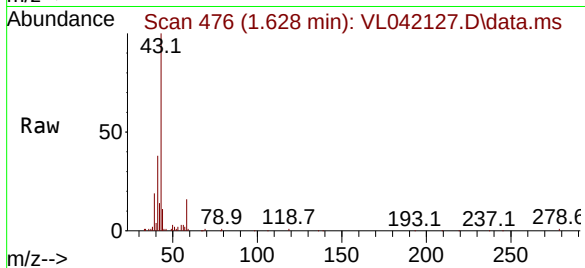




#3
Chlorodifluoromethane
Concen: 0.035 ppbv
RT: 1.628 min Scan# 41
Delta R.T. 0.149 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

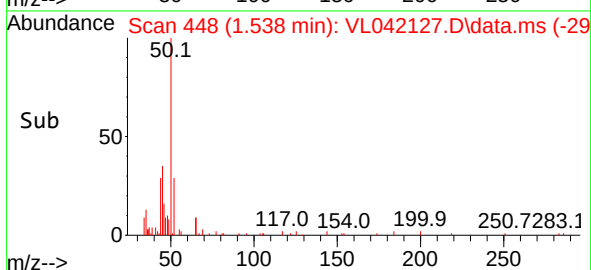
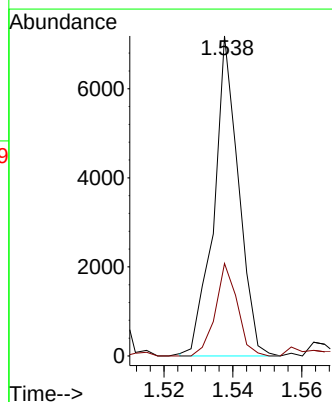
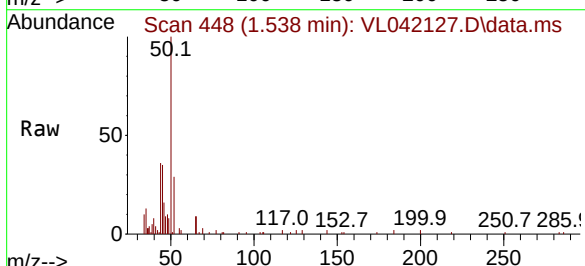
Instrument :
MSVOA_L
ClientSampleId :
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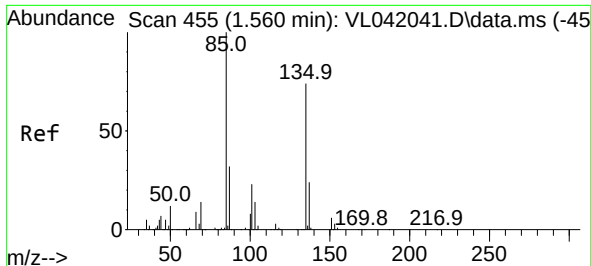
Tgt Ion: 51 Resp: 827
Ion Ratio Lower Upper
51 100
67 15.0 13.7 20.5



#4
Chloromethane
Concen: 0.574 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 50 Resp: 3589
Ion Ratio Lower Upper
50 100
52 28.9 25.4 38.0

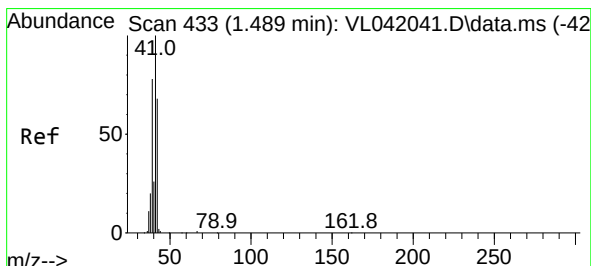
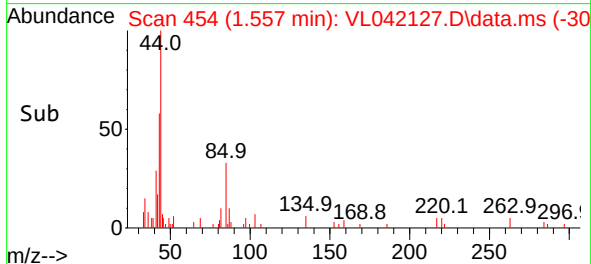
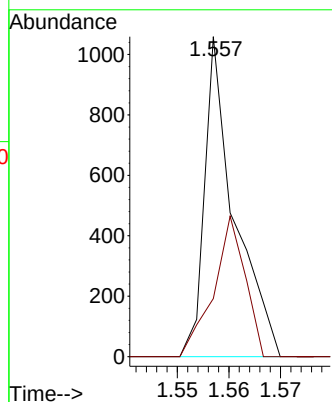
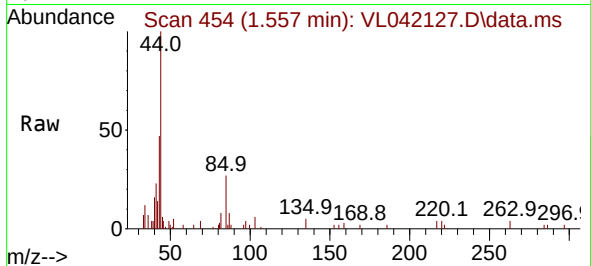




#8
 Dichlorotetrafluoroethane
 Concen: 0.031 ppbv
 RT: 1.557 min Scan# 414
 Delta R.T. -0.003 min
 Lab File: VL042127.D
 Acq: 10 Mar 2025 16:15

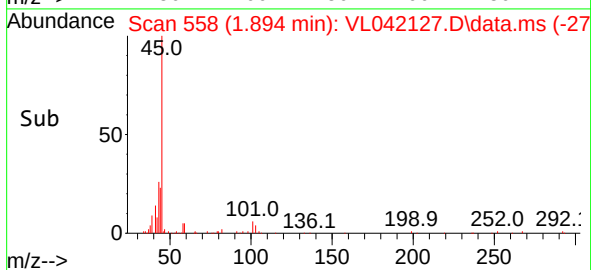
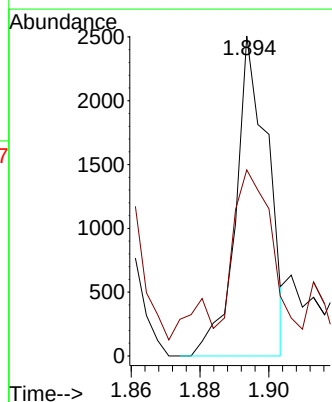
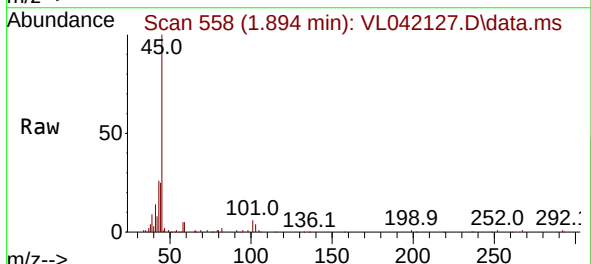
Instrument :
 MSVOA_L
 ClientSampleId :
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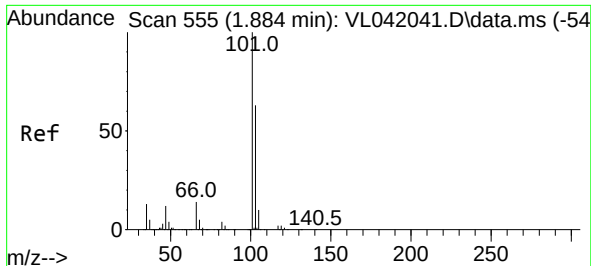
Tgt Ion: 85 Resp: 425
 Ion Ratio Lower Upper
 85 100
 135 46.4 54.6 81.8#



#9
 Propene
 Concen: 0.168 ppbv
 RT: 1.894 min Scan# 558
 Delta R.T. 0.404 min
 Lab File: VL042127.D
 Acq: 10 Mar 2025 16:15

Tgt Ion: 41 Resp: 1620
 Ion Ratio Lower Upper
 41 100
 42 63.1 55.8 83.6

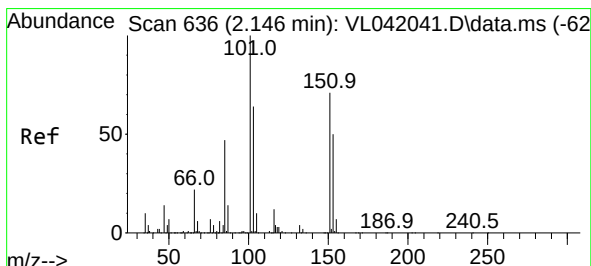
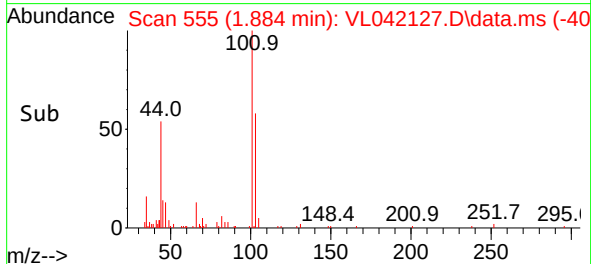
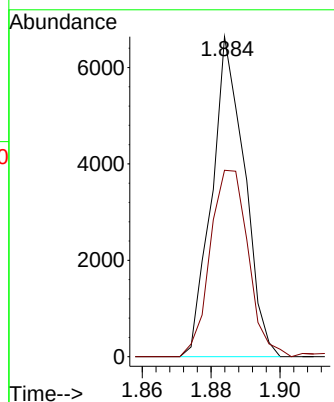
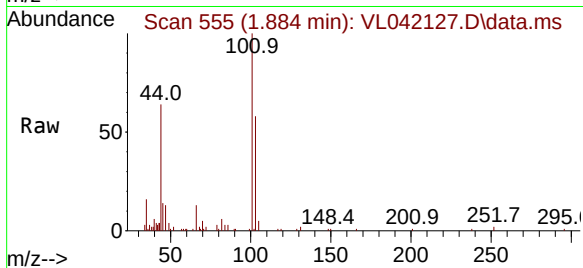




#11
 Trichlorofluoromethane
 Concen: 0.258 ppbv
 RT: 1.884 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042127.D
 Acq: 10 Mar 2025 16:15

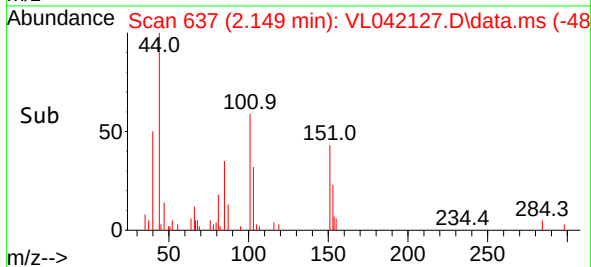
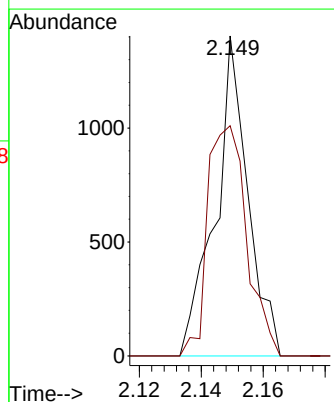
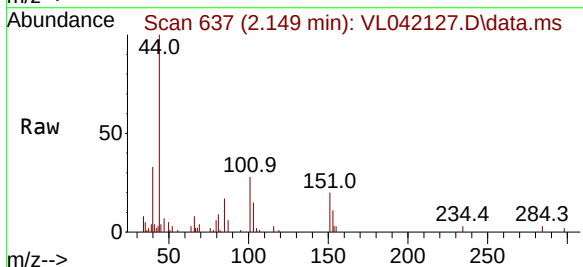
Instrument :
 MSVOA_L
 ClientSampleId :
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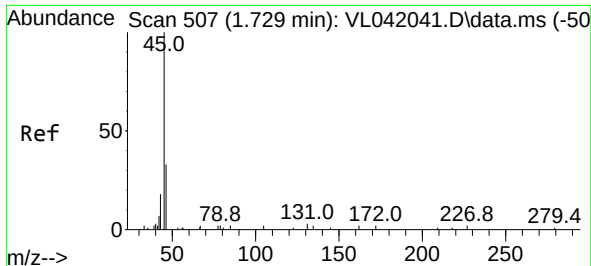
Tgt Ion:101 Resp: 4374
 Ion Ratio Lower Upper
 101 100
 103 58.3 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.076 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.003 min
 Lab File: VL042127.D
 Acq: 10 Mar 2025 16:15

Tgt Ion:101 Resp: 1025
 Ion Ratio Lower Upper
 101 100
 151 86.2 62.6 94.0





#13

Ethanol

Concen: 23.166 ppbv

RT: 1.729 min Scan# 507

Delta R.T. -0.000 min

Lab File: VL042127.D

Acq: 10 Mar 2025 16:15

Instrument :

MSVOA_L

ClientSampleId :

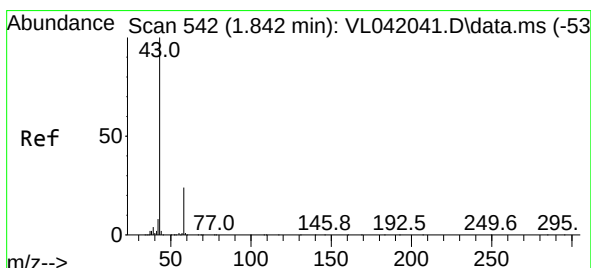
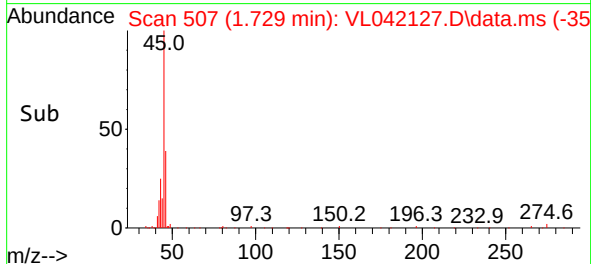
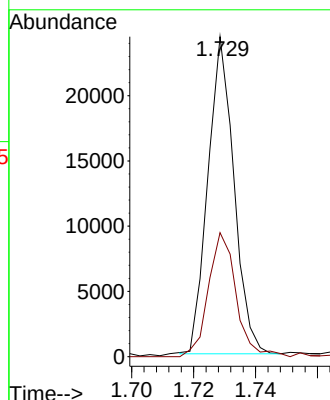
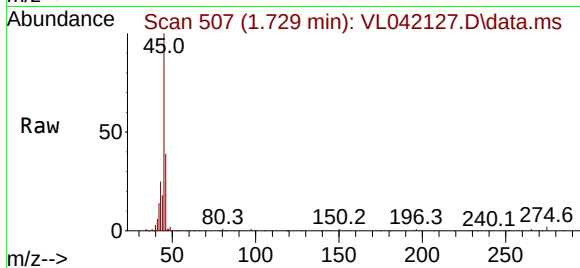
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Tgt Ion: 45 Resp: 14167

Ion Ratio Lower Upper

45 100

46 43.5 17.1 68.3



#15

Acetone

Concen: 5.770 ppbv

RT: 1.845 min Scan# 543

Delta R.T. 0.003 min

Lab File: VL042127.D

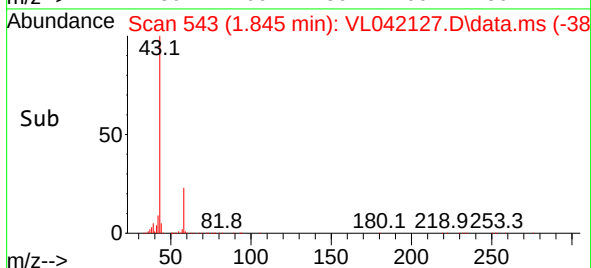
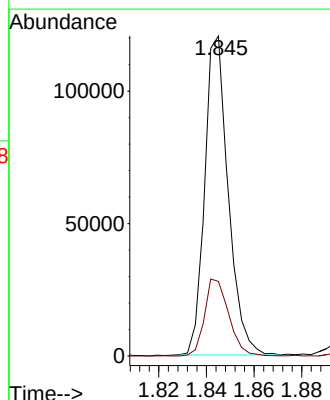
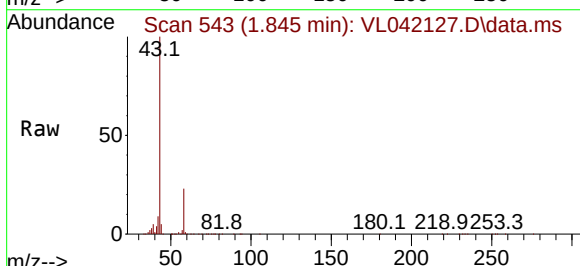
Acq: 10 Mar 2025 16:15

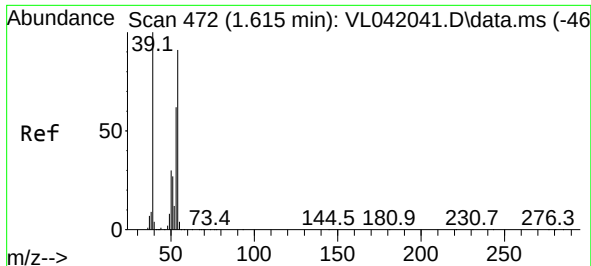
Tgt Ion: 43 Resp: 82899

Ion Ratio Lower Upper

43 100

58 24.9 20.7 31.1

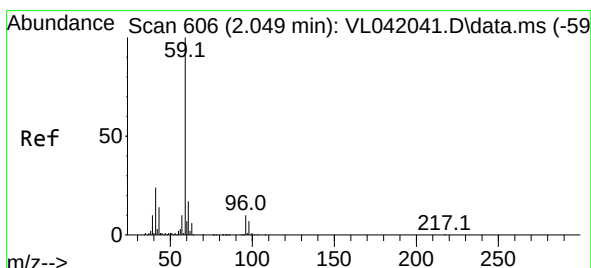
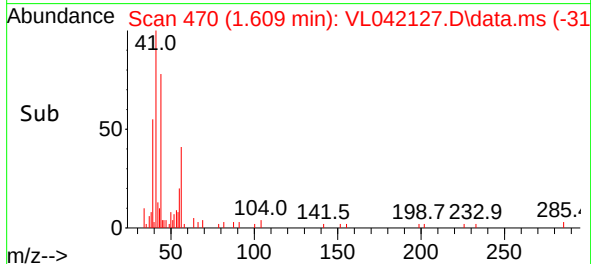
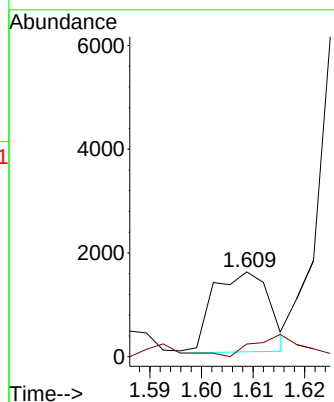
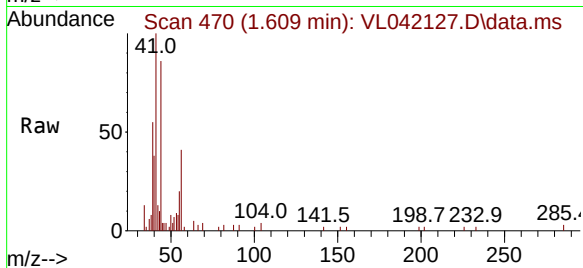




#16
1,3-Butadiene
Concen: 0.174 ppbv
RT: 1.609 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

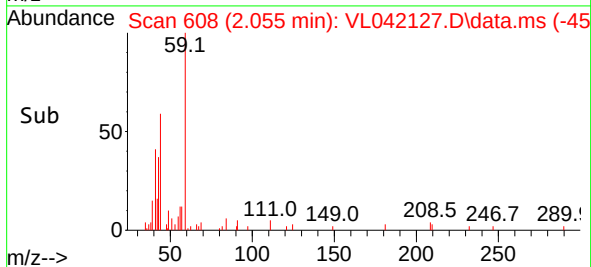
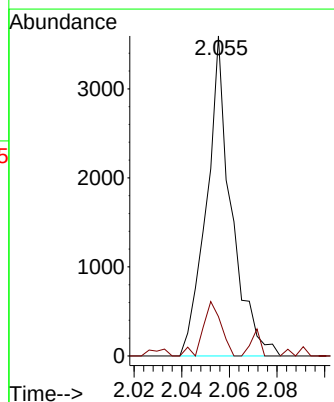
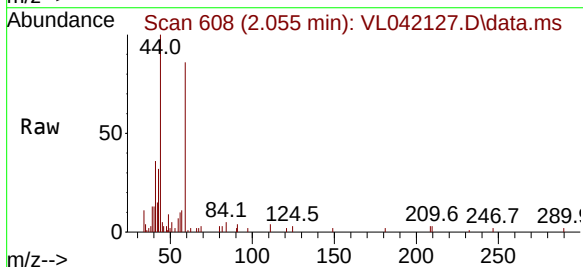
Instrument :
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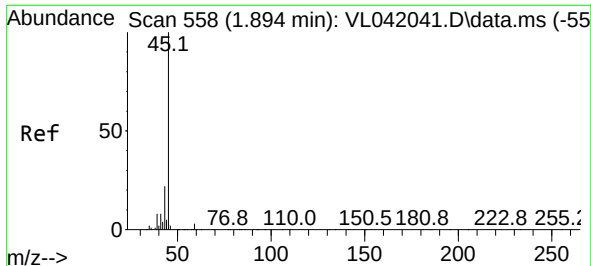
Tgt Ion: 39 Resp: 1164
Ion Ratio Lower Upper
39 100
54 46.0 59.6 89.4#



#17
tert-Butyl alcohol
Concen: 0.144 ppbv
RT: 2.055 min Scan# 608
Delta R.T. 0.006 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 59 Resp: 2587
Ion Ratio Lower Upper
59 100
57 17.1 9.3 13.9#

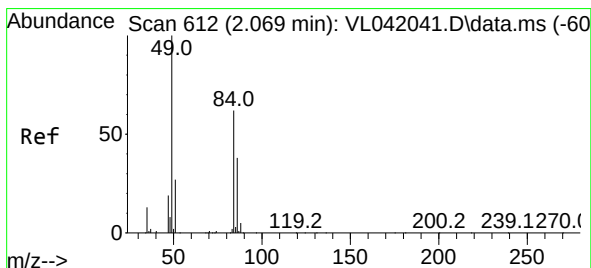
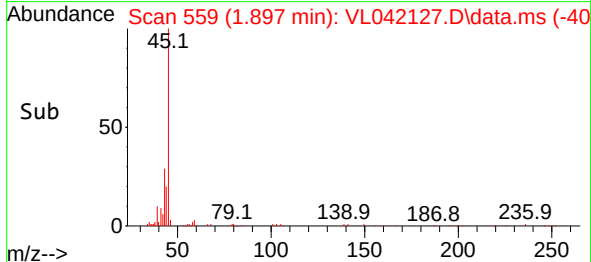
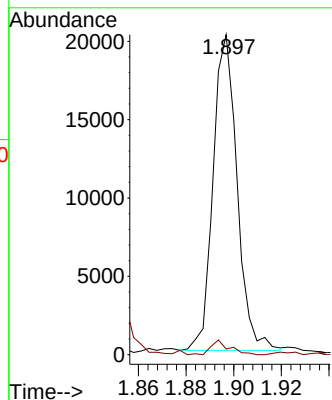
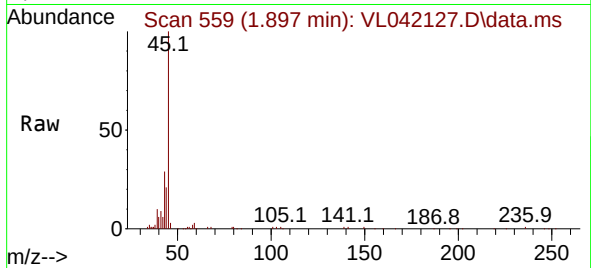




#19
Isopropyl Alcohol
Concen: 1.707 ppbv
RT: 1.897 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

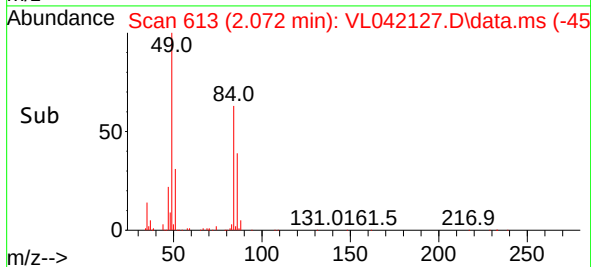
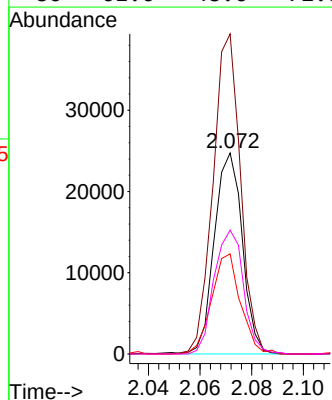
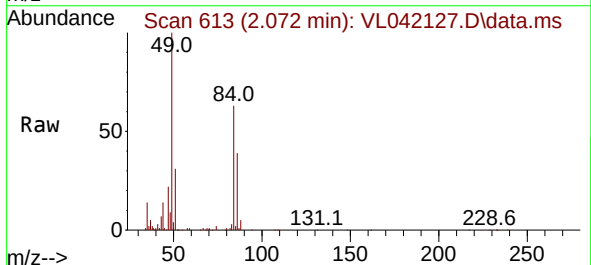
Instrument :
MSVOA_L
ClientSampleId :
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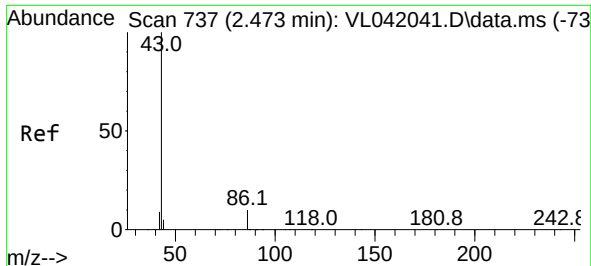
Tgt Ion: 45 Resp: 14092
Ion Ratio Lower Upper
45 100
58 146.3 35.3 52.9#



#20
Methylene Chloride
Concen: 3.420 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 84 Resp: 18587
Ion Ratio Lower Upper
84 100
49 158.6 130.0 195.0
51 49.8 37.4 56.0
86 61.6 48.6 72.8

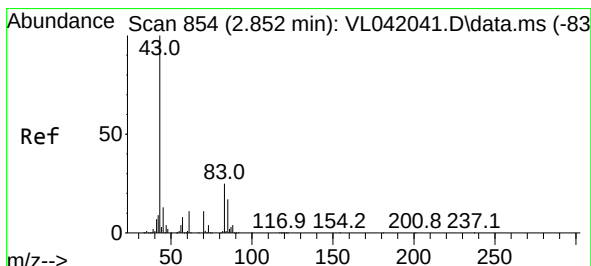
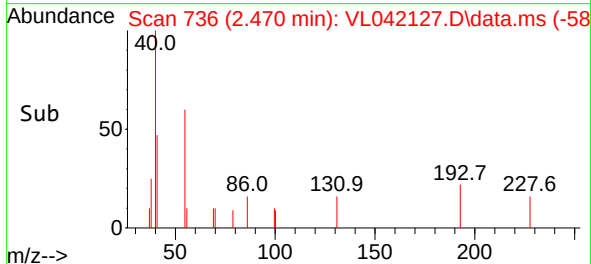
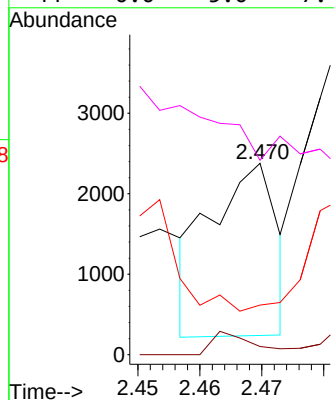
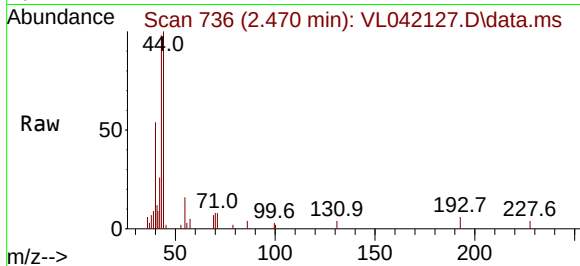




#23
 Vinyl Acetate
 Concen: 0.158 ppbv
 RT: 2.470 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042127.D
 Acq: 10 Mar 2025 16:15

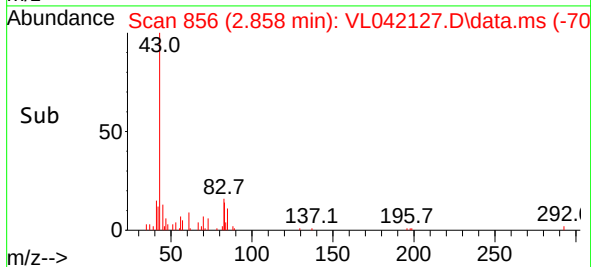
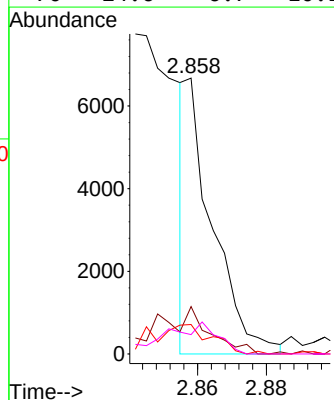
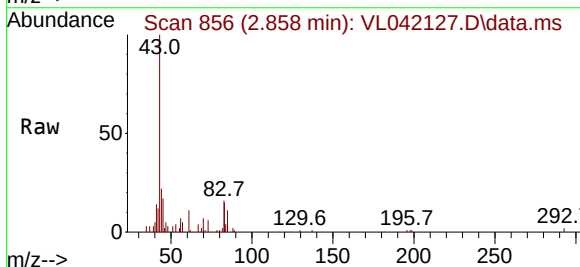
Instrument :
 MSVOA_L
 ClientSampleId :
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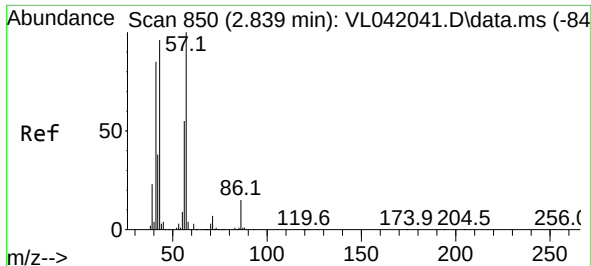
Tgt Ion:	43	Resp:	1598
Ion	Ratio	Lower	Upper
43	100		
86	11.0	7.0	10.4#
42	0.0	7.6	11.4#
44	0.0	5.0	7.4#



#25
 Ethyl Acetate
 Concen: 0.062 ppbv
 RT: 2.858 min Scan# 856
 Delta R.T. 0.006 min
 Lab File: VL042127.D
 Acq: 10 Mar 2025 16:15

Tgt Ion:	43	Resp:	3575
Ion	Ratio	Lower	Upper
43	100		
45	37.5	8.1	12.1#
61	24.0	7.2	10.8#
70	24.6	6.7	10.1#

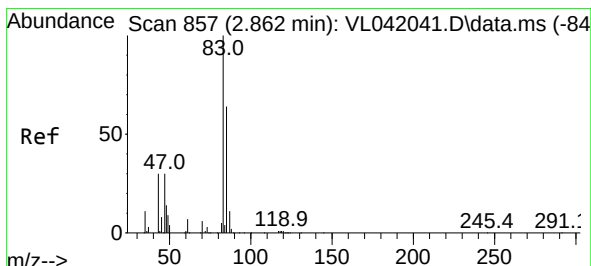
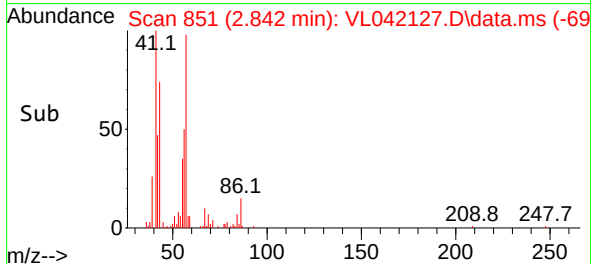
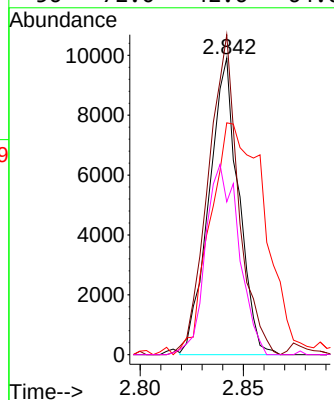
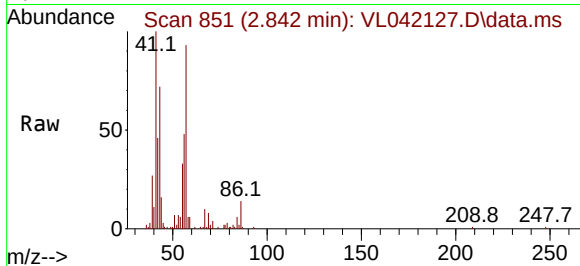




#26
Hexane
Concen: 0.425 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

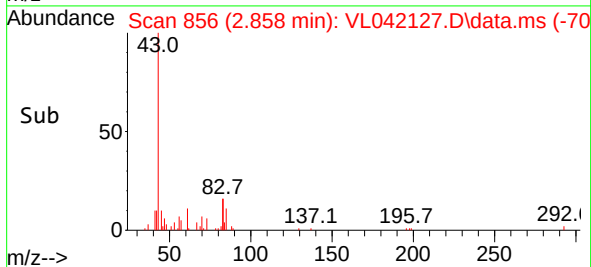
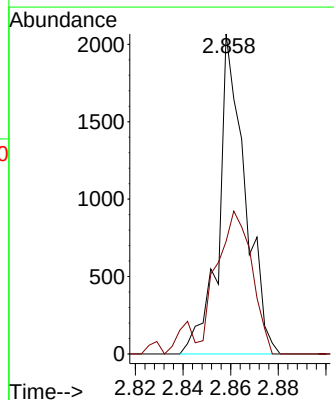
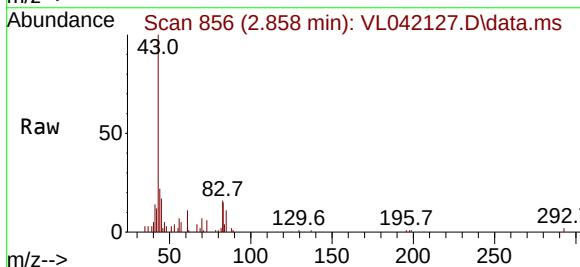
Instrument :
MSVOA_L
ClientSampleId :
4

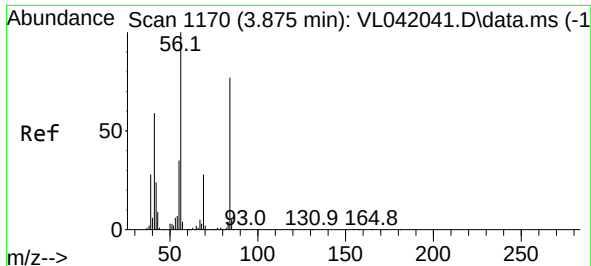
Tgt Ion:	57	Resp:	9892
Ion	Ratio	Lower	Upper
57	100		
41	113.9	70.6	106.0#
43	148.7	199.4	299.0#
56	72.0	42.6	64.0#



#29
Chloroform
Concen: 0.051 ppbv
RT: 2.858 min Scan# 856
Delta R.T. -0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion:	83	Resp:	1592
Ion	Ratio	Lower	Upper
83	100		
85	35.2	51.2	76.8#

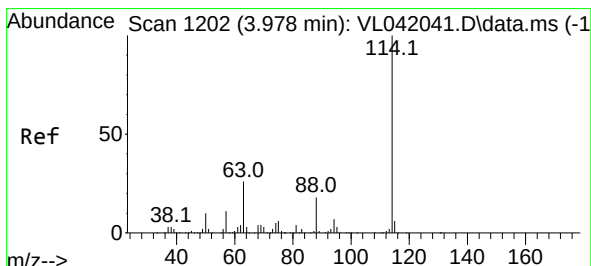
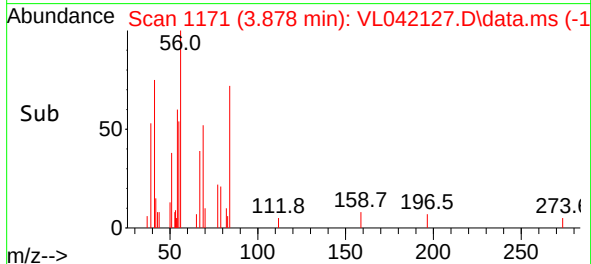
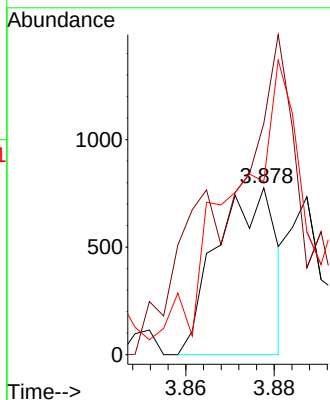
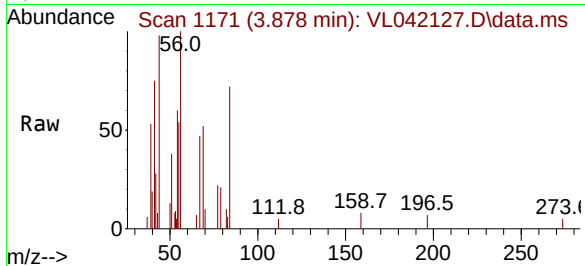




#30
Cyclohexane
Concen: 0.038 ppbv
RT: 3.878 min Scan# 1170
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

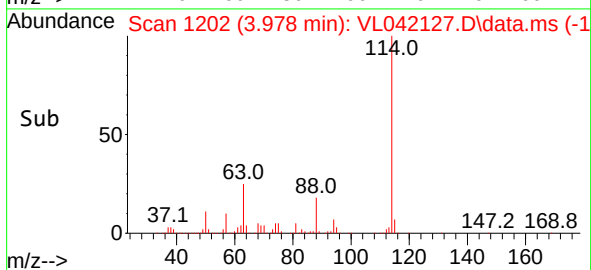
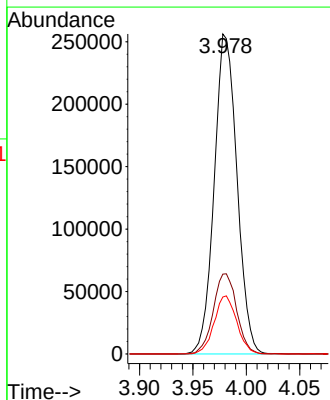
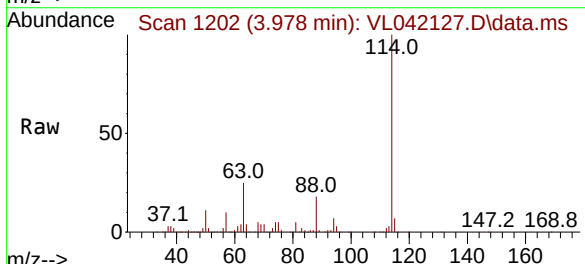
Instrument :
MSVOA_L
ClientSampleId :
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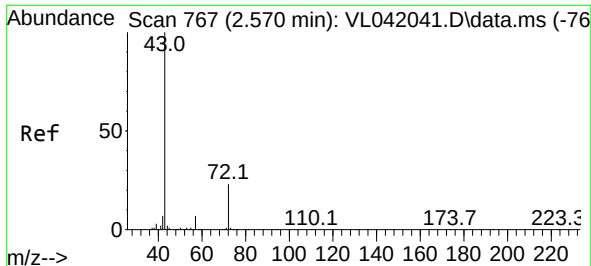
Tgt Ion: 84 Resp: 718
Ion Ratio Lower Upper
84 100
56 268.7 101.5 152.3#
41 267.7 62.6 93.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 114 Resp: 379717
Ion Ratio Lower Upper
114 100
63 25.8 20.1 30.1
88 18.1 14.3 21.5

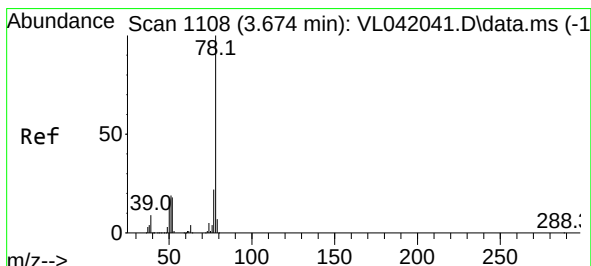
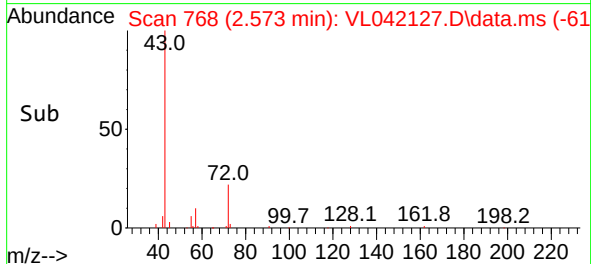
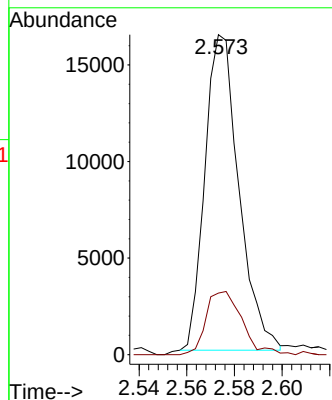
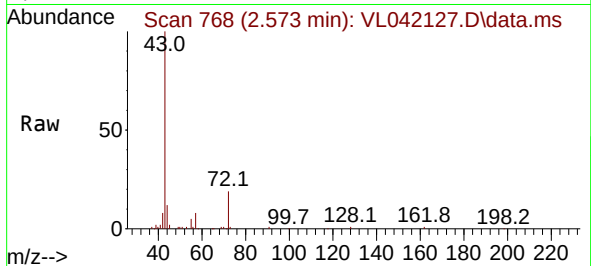




#34
2-Butanone
Concen: 0.548 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

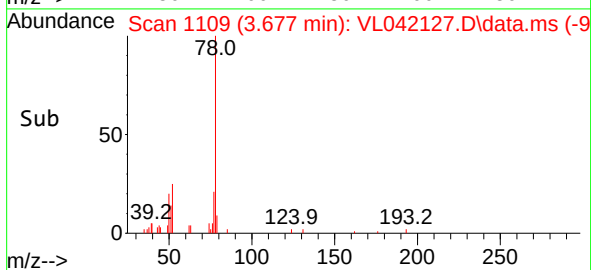
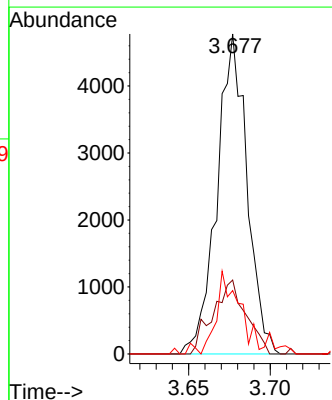
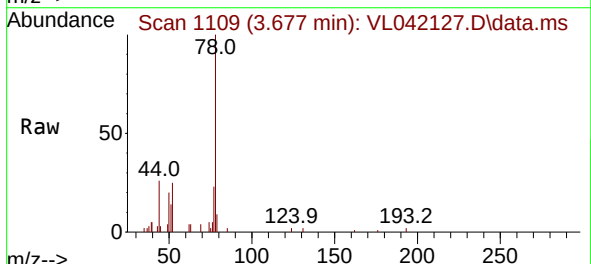
Instrument :
MSVOA_L
ClientSampleId :
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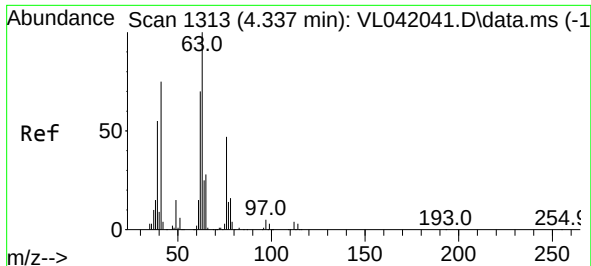
Tgt Ion: 43 Resp: 16205
Ion Ratio Lower Upper
43 100
72 21.5 18.5 27.7



#36
Benzene
Concen: 0.154 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 78 Resp: 6120
Ion Ratio Lower Upper
78 100
77 23.1 17.7 26.5
50 19.8 13.9 20.9





#39

1,2-Dichloropropane

Concen: 6.474 ppbv

RT: 3.981 min Scan# 11

Delta R.T. -0.356 min

Lab File: VL042127.D

Acq: 10 Mar 2025 16:15

Instrument :

MSVOA_L

ClientSampleId :

4

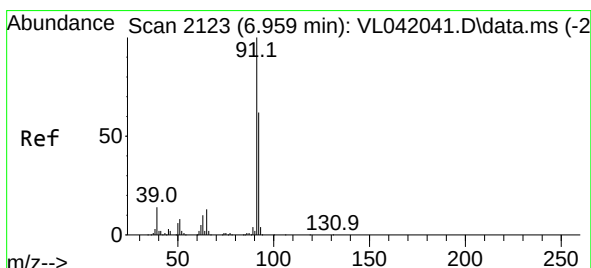
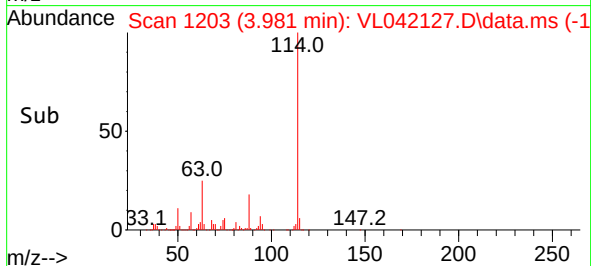
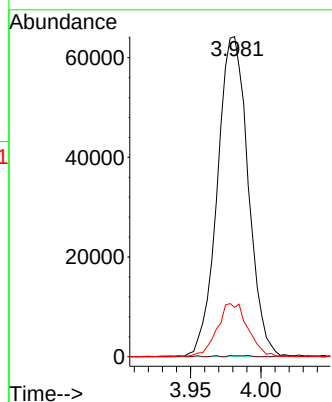
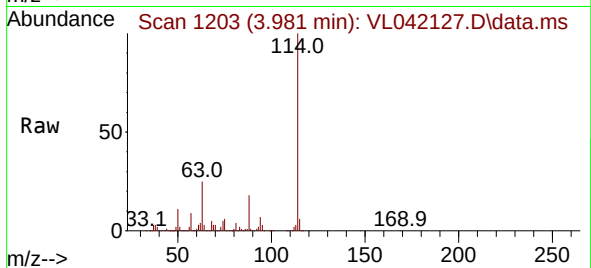
Tgt Ion: 63 Resp: 97683

Ion Ratio Lower Upper

63 100

41 0.0 60.1 90.1#

62 15.4 55.8 83.8#



#53

Toluene

Concen: 0.438 ppbv

RT: 6.965 min Scan# 2125

Delta R.T. 0.006 min

Lab File: VL042127.D

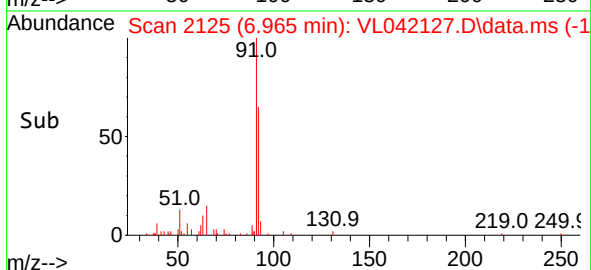
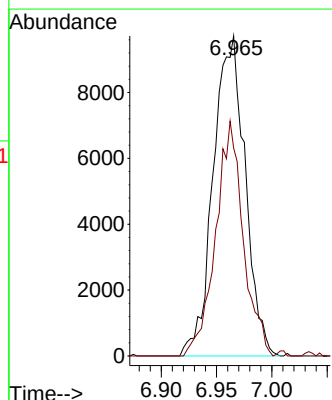
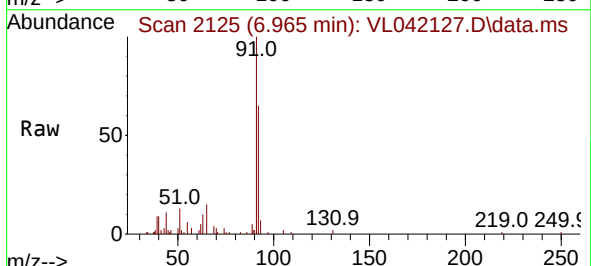
Acq: 10 Mar 2025 16:15

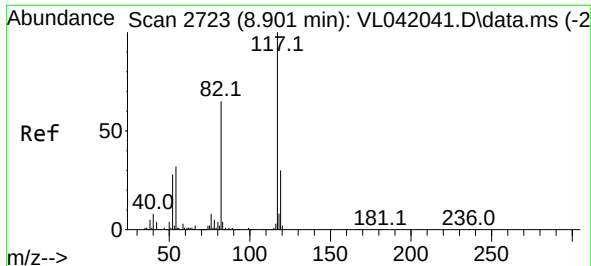
Tgt Ion: 91 Resp: 19451

Ion Ratio Lower Upper

91 100

92 64.4 49.0 73.6

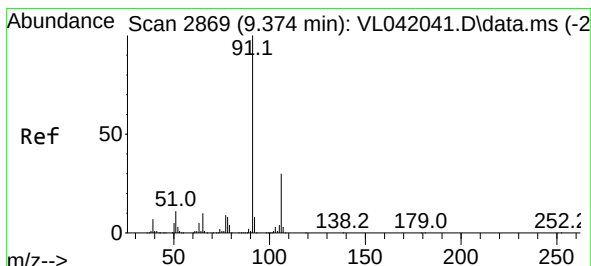
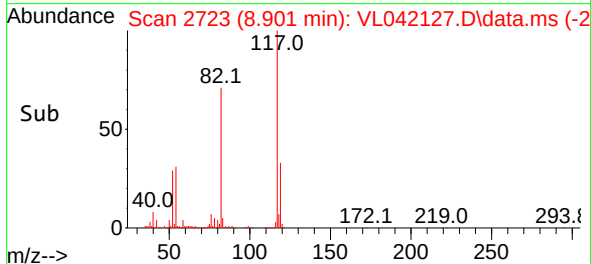
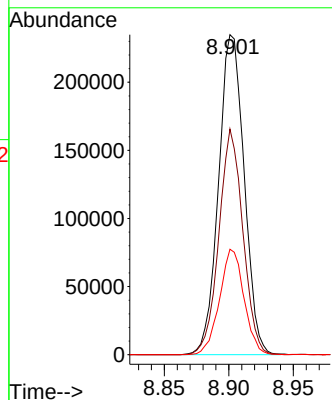
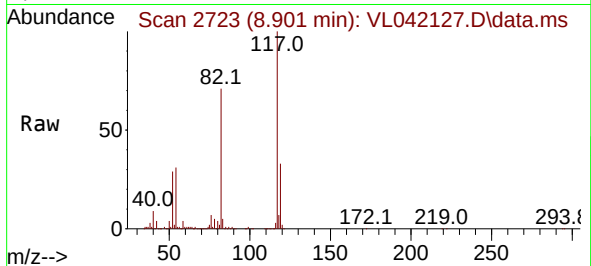




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

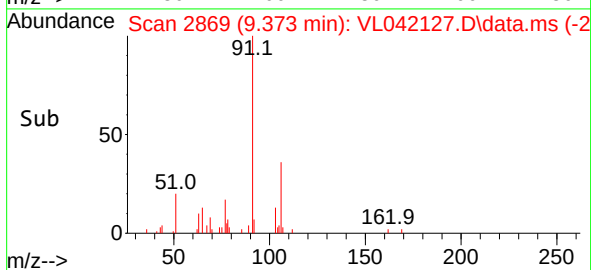
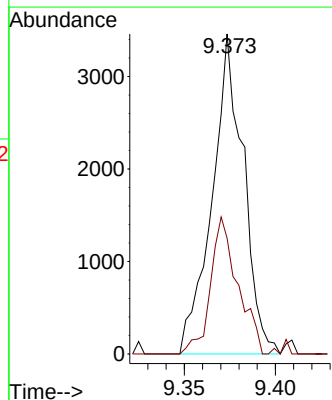
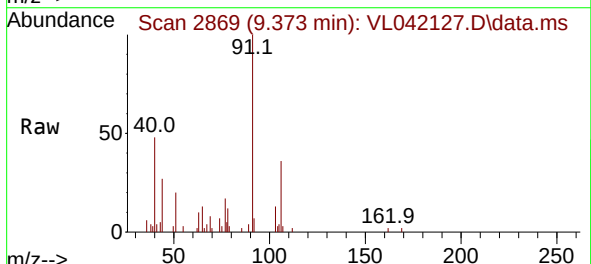
Instrument :
MSVOA_L
ClientSampleId :
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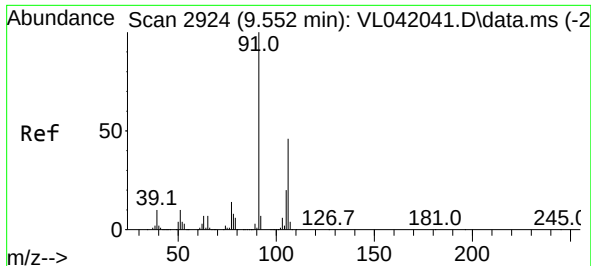
Tgt Ion:117 Resp: 323671
Ion Ratio Lower Upper
117 100
82 66.2 55.0 82.6
119 31.6 25.9 38.9



#58
Ethyl Benzene
Concen: 0.069 ppbv
RT: 9.373 min Scan# 2869
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 91 Resp: 4141
Ion Ratio Lower Upper
91 100
106 36.2 24.2 36.2





#59

m/p-Xylene

Concen: 0.219 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042127.D

Acq: 10 Mar 2025 16:15

Instrument :

MSVOA_1

ClientSampleId :

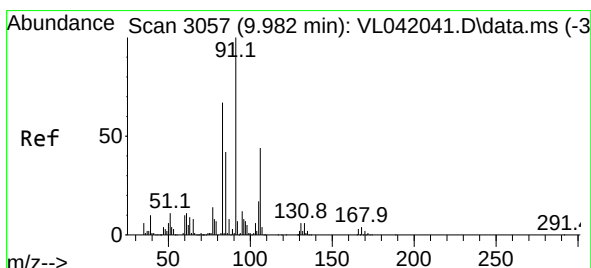
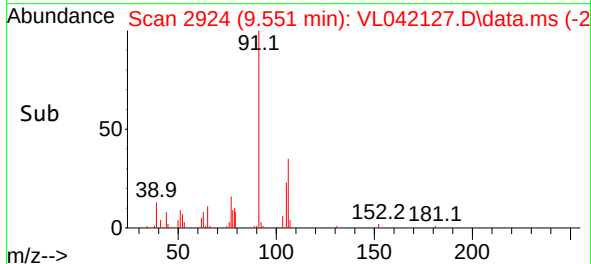
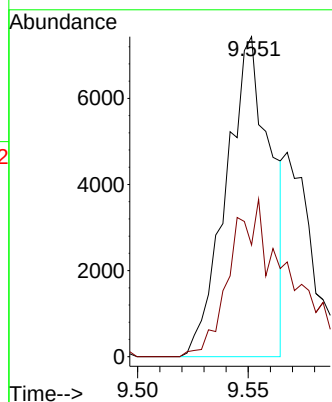
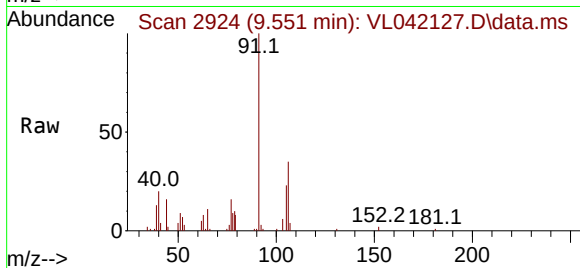
4

Tgt Ion: 91 Resp: 10380

Ion Ratio Lower Upper

91 100

106 63.9 0.0 0.0#



#60

o-Xylene

Concen: 0.087 ppbv

RT: 9.985 min Scan# 3058

Delta R.T. 0.003 min

Lab File: VL042127.D

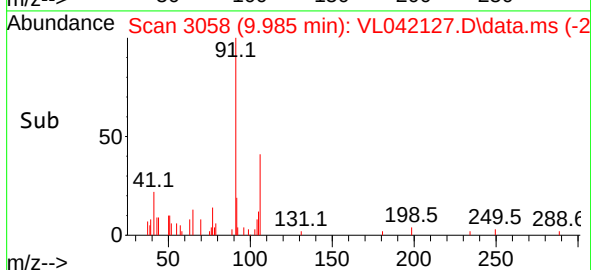
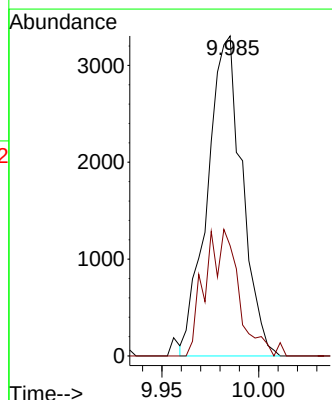
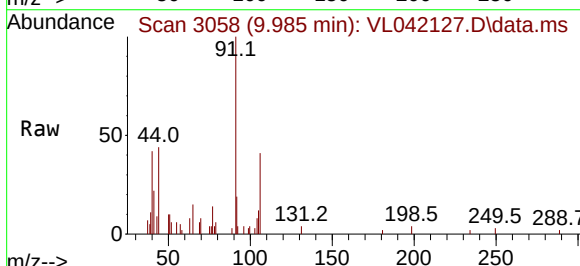
Acq: 10 Mar 2025 16:15

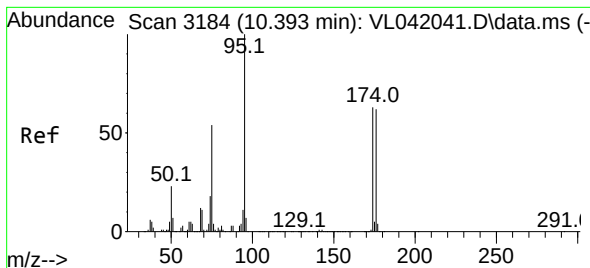
Tgt Ion: 91 Resp: 4131

Ion Ratio Lower Upper

91 100

106 38.5 22.3 66.8

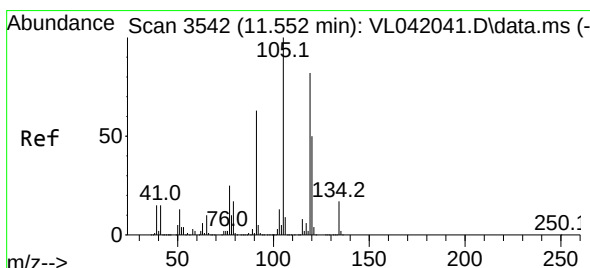
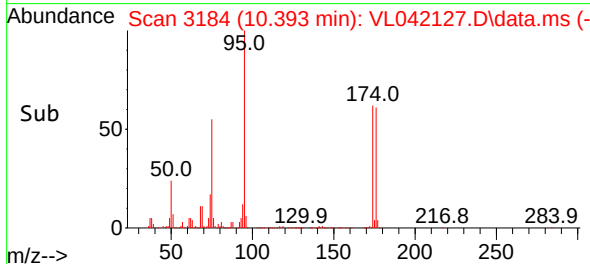
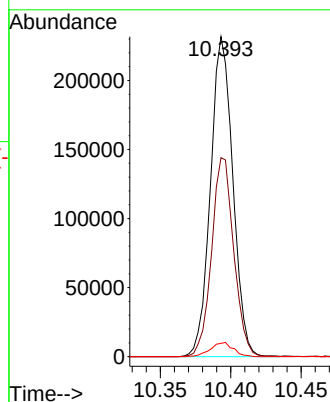
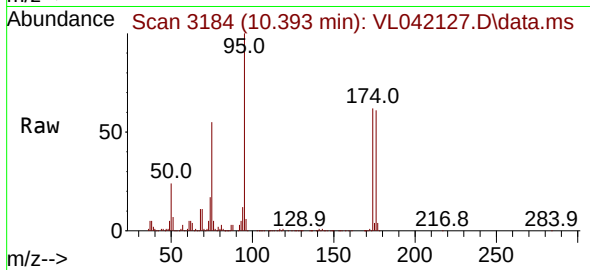




#68
1-Bromo-4-Fluorobenzene
Concen: 10.275 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Instrument :
MSVOA_L
ClientSampleId :
4

Tgt Ion: 95 Resp: 255866
Ion Ratio Lower Upper
95 100
174 61.8 51.8 77.6
175 4.6 3.9 5.9



#74
1,2,4-Trimethylbenzene
Concen: 0.041 ppbv
RT: 11.548 min Scan# 3541
Delta R.T. -0.003 min
Lab File: VL042127.D
Acq: 10 Mar 2025 16:15

Tgt Ion: 105 Resp: 2357
Ion Ratio Lower Upper
105 100
120 46.4 40.2 60.2
91 15.0 51.4 77.2#
77 21.8 20.1 30.1

