

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042925\
 Data File : VL042453.D
 Acq On : 29 Apr 2025 18:42
 Operator : SY/MD
 Sample : Q1665-21DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-3242025DL

Quant Time: Apr 30 01:24:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

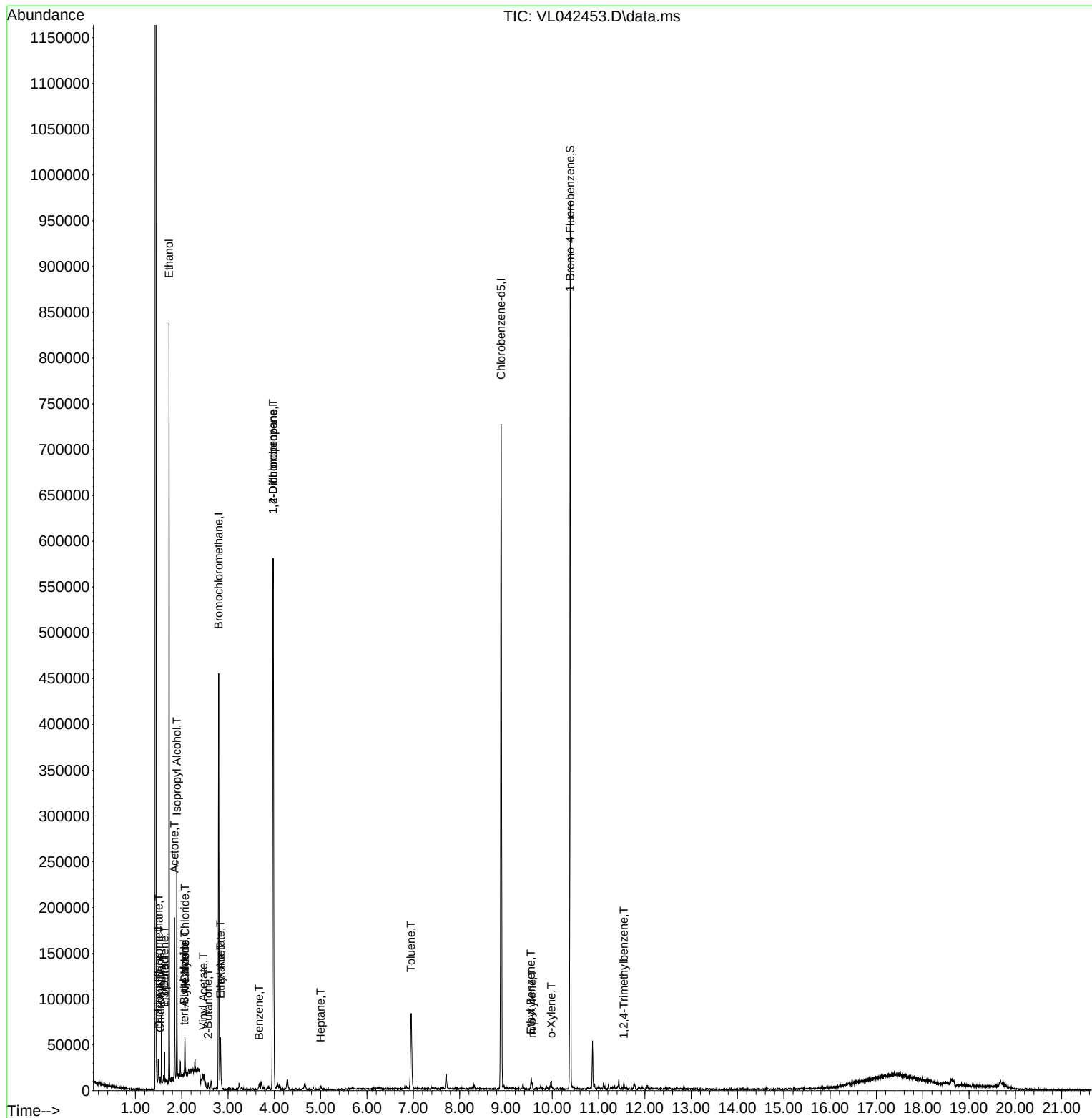
Internal Standards						
1) Bromochloromethane	2.797	49	114227	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.972	114	302811	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.895	117	257605	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	229916	10.861	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 108.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	2620	0.130	ppbv #	72
4) Chloromethane	1.535	50	1272	0.159	ppbv #	87
9) Propene	1.625	41	2938	0.336	ppbv	99
10) Heptane	4.998	43	849	0.035	ppbv #	27
13) Ethanol	1.726	45	267493	192.292	ppbv	76
15) Acetone	1.842	43	73473	3.929	ppbv	100
16) 1,3-Butadiene	1.625	39	1878	0.210	ppbv #	9
17) tert-Butyl alcohol	2.053	59	1524	0.066	ppbv #	47
19) Isopropyl Alcohol	1.891	45	95671	9.210	ppbv #	36
20) Methylene Chloride	2.069	84	5787	0.790	ppbv	92
21) Allyl Chloride	2.062	41	421	0.033	ppbv #	1
23) Vinyl Acetate	2.464	43	5507	0.728	ppbv #	67
25) Ethyl Acetate	2.833	43	10846	0.235	ppbv #	92
26) Hexane	2.836	57	10634	0.570	ppbv #	39
34) 2-Butanone	2.567	43	4171	0.174	ppbv	94
36) Benzene	3.668	78	2348	0.072	ppbv #	83
39) 1,2-Dichloropropane	3.972	63	88088	7.237	ppbv #	23
53) Toluene	6.950	91	56027	1.429	ppbv	97
58) Ethyl Benzene	9.539	91	4000	0.078	ppbv	98
59) m/p-Xylene	9.562	91	2048	0.050	ppbv #	32
60) o-Xylene	9.982	91	1346	0.033	ppbv #	26
74) 1,2,4-Trimethylbenzene	11.542	105	2240	0.043	ppbv #	64

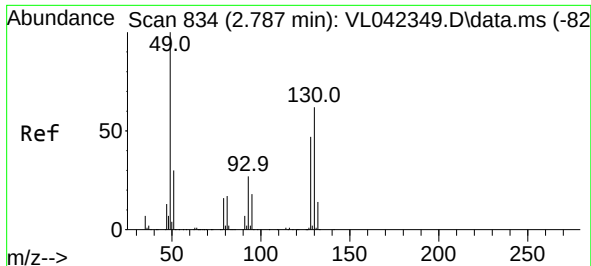
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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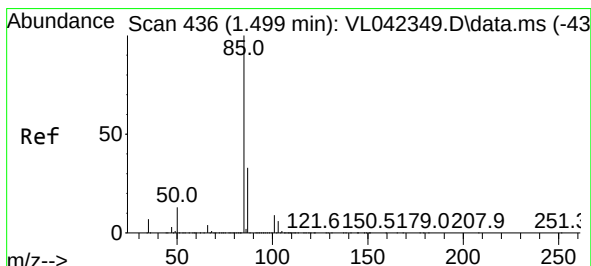
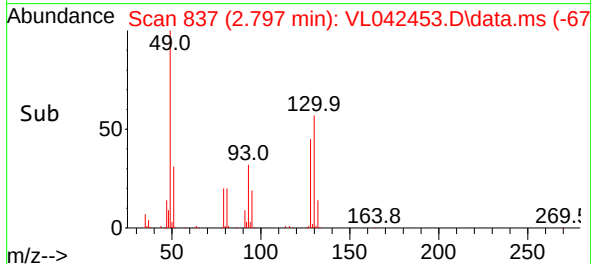
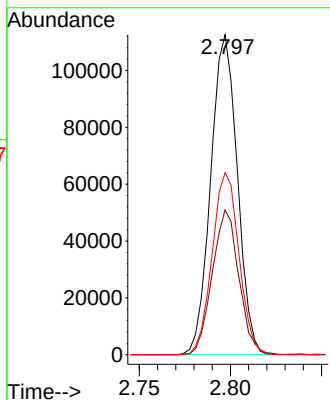
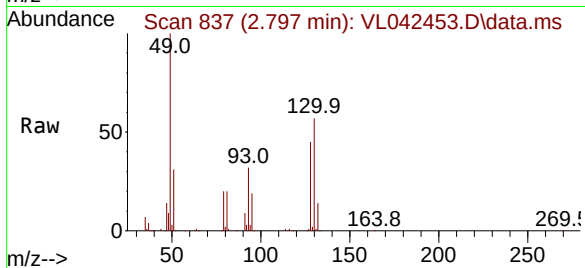




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

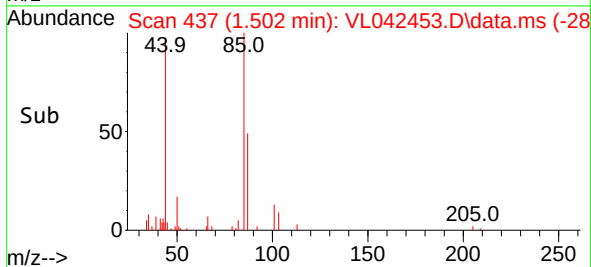
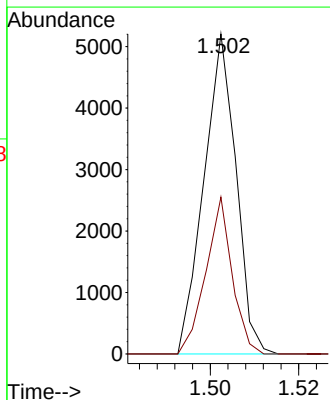
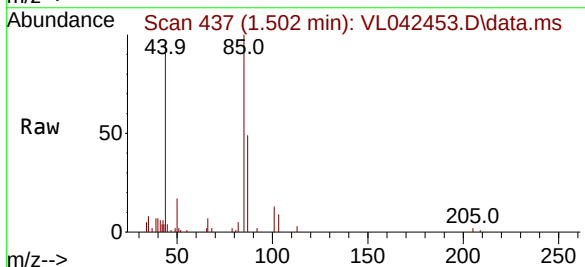
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-3242025DL

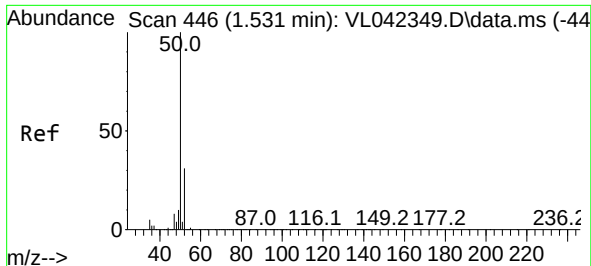
Tgt Ion: 49 Resp: 114227
Ion Ratio Lower Upper
49 100
128 44.9 22.8 68.4
130 57.3 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.130 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 85 Resp: 2620
Ion Ratio Lower Upper
85 100
87 49.0 26.6 39.8

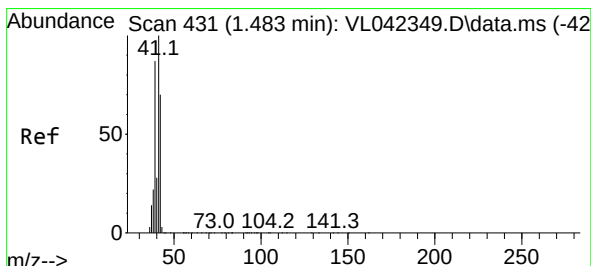
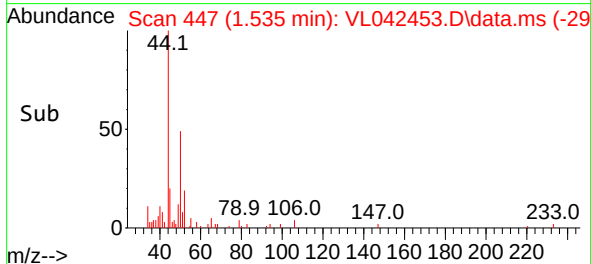
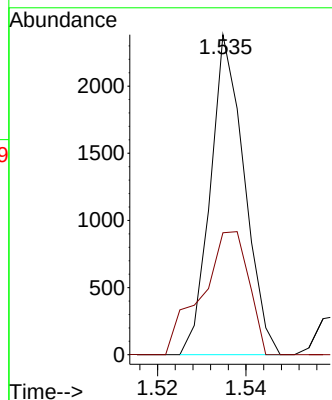
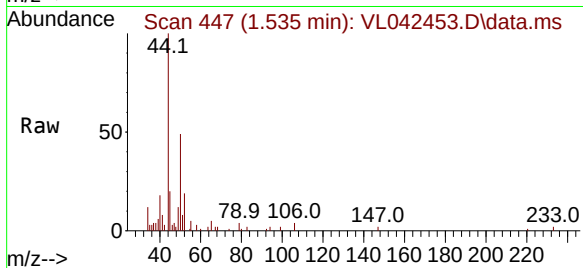




#4
Chloromethane
Concen: 0.159 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

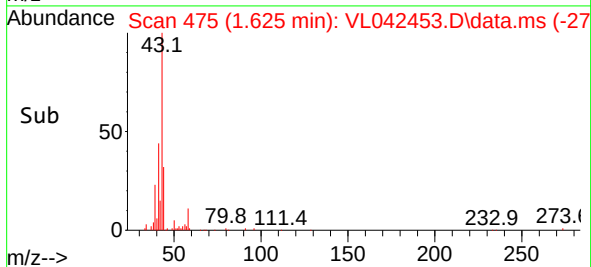
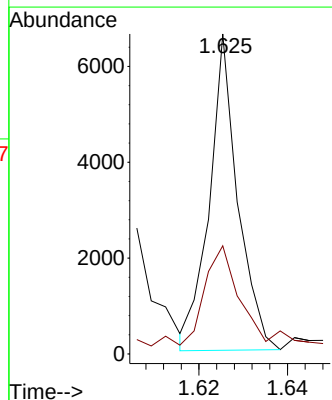
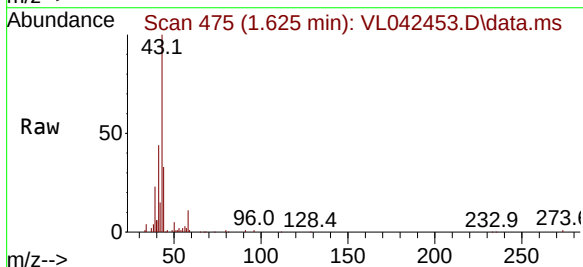
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-3242025DL

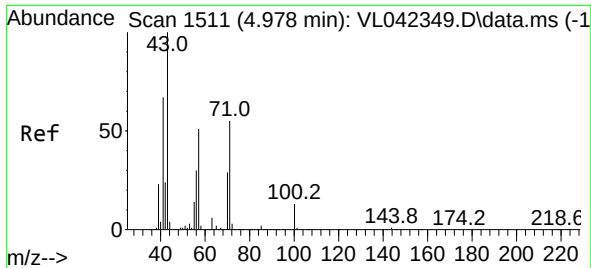
Tgt Ion: 50 Resp: 1272
Ion Ratio Lower Upper
50 100
52 38.1 24.7 37.1#



#9
Propene
Concen: 0.336 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.143 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 41 Resp: 2938
Ion Ratio Lower Upper
41 100
42 69.7 56.2 84.4

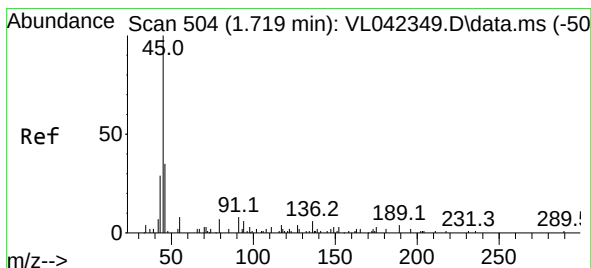
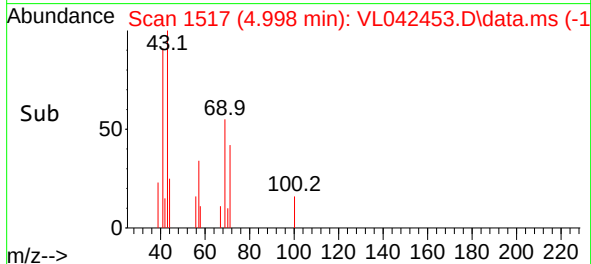
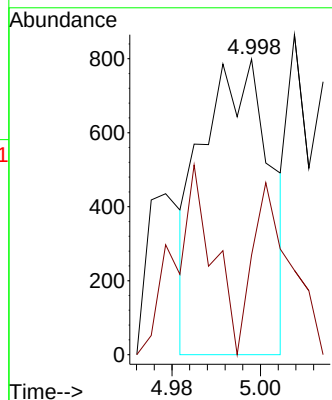
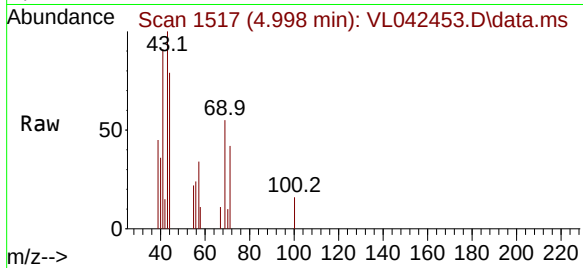




#10
Heptane
Concen: 0.035 ppbv
RT: 4.998 min Scan# 11
Delta R.T. 0.020 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

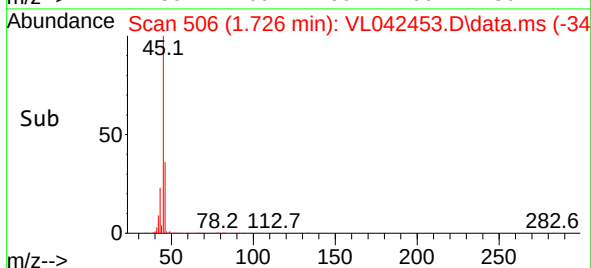
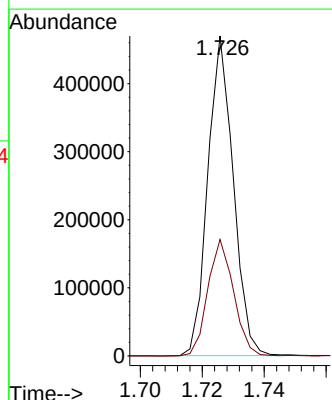
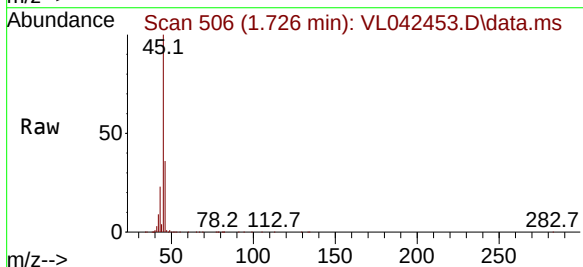
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-3242025DL

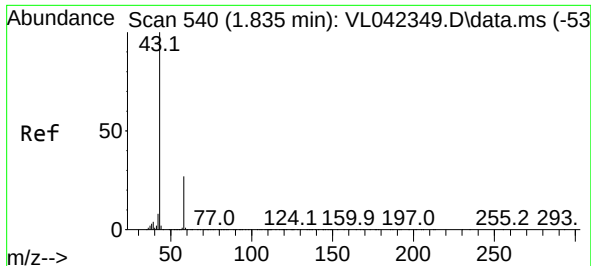
Tgt Ion: 43 Resp: 849
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9#



#13
Ethanol
Concen: 192.292 ppbv
RT: 1.726 min Scan# 506
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 45 Resp: 267493
Ion Ratio Lower Upper
45 100
46 37.5 21.9 87.7





#15

Acetone

Concen: 3.929 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.007 min

Lab File: VL042453.D

Acq: 29 Apr 2025 18:42

Instrument :

MSVOA_L

ClientSampleId :

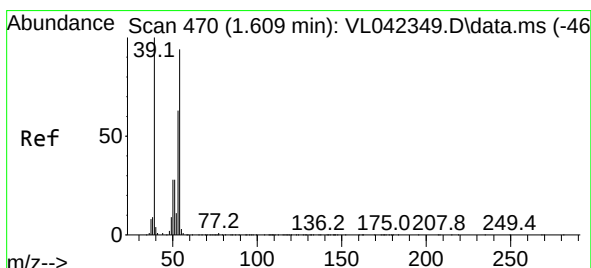
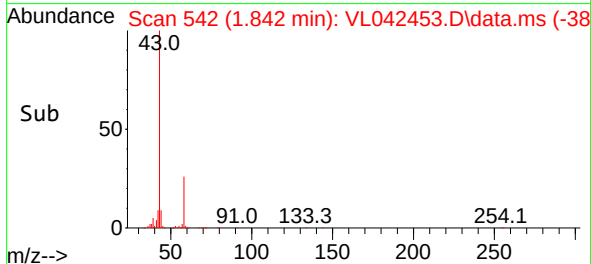
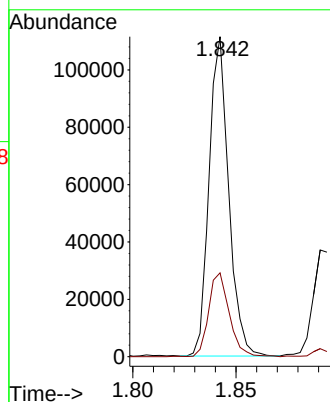
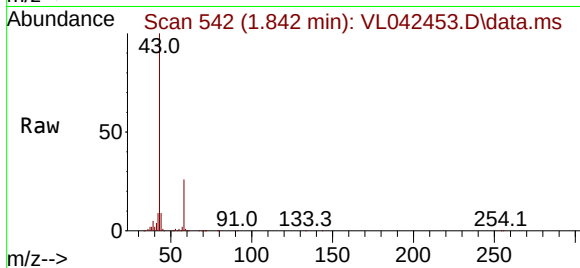
IA-B2-1-3242025DL

Tgt Ion: 43 Resp: 73473

Ion Ratio Lower Upper

43 100

58 27.8 22.4 33.6



#16

1,3-Butadiene

Concen: 0.210 ppbv

RT: 1.625 min Scan# 475

Delta R.T. 0.017 min

Lab File: VL042453.D

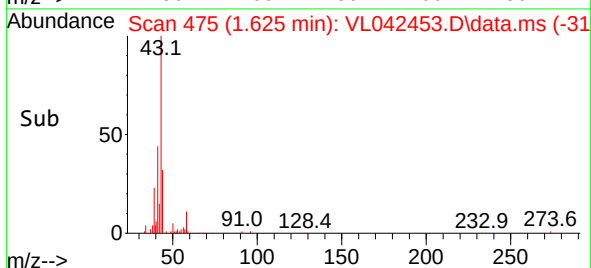
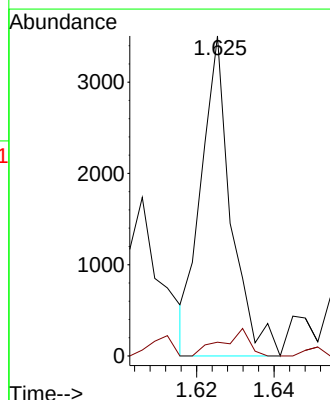
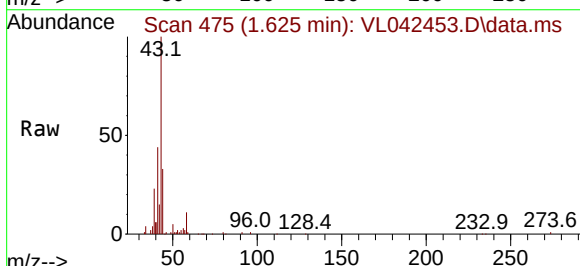
Acq: 29 Apr 2025 18:42

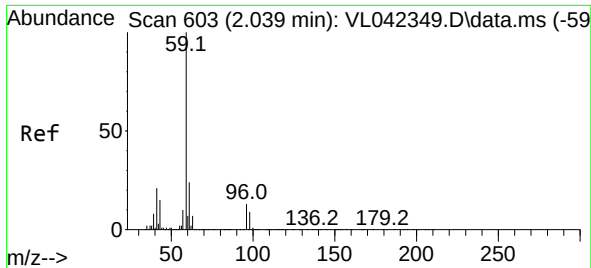
Tgt Ion: 39 Resp: 1878

Ion Ratio Lower Upper

39 100

54 0.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.066 ppbv

RT: 2.053 min Scan# 603

Delta R.T. 0.013 min

Lab File: VL042453.D

Acq: 29 Apr 2025 18:42

Instrument :

MSVOA_L

ClientSampleId :

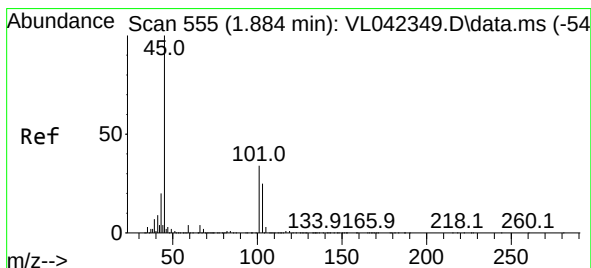
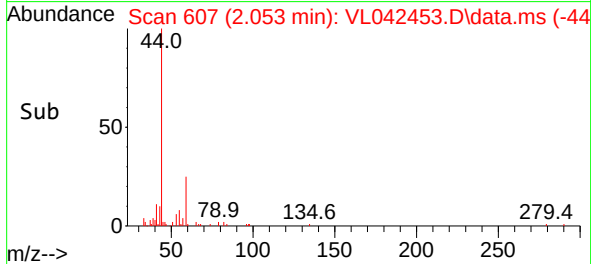
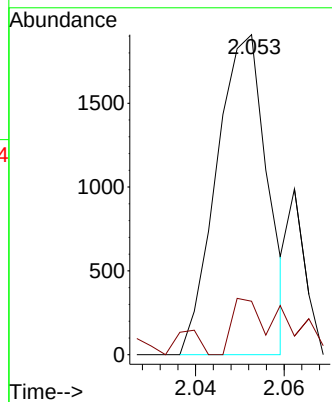
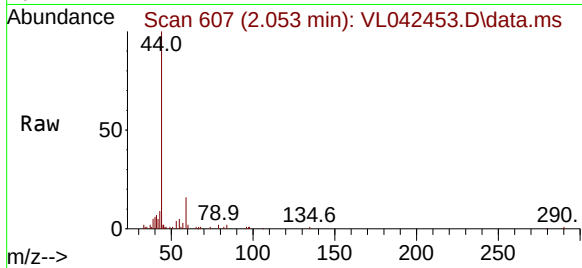
IA-B2-1-3242025DL

Tgt Ion: 59 Resp: 1524

Ion Ratio Lower Upper

59 100

57 31.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 9.210 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.007 min

Lab File: VL042453.D

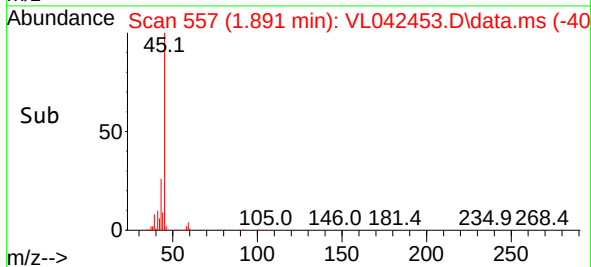
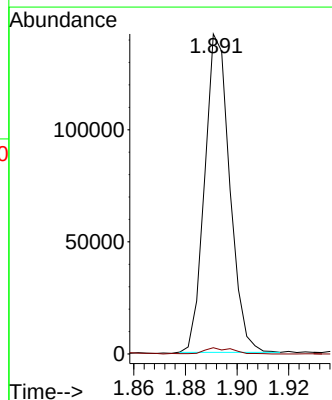
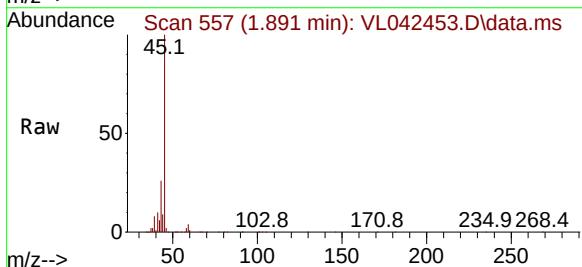
Acq: 29 Apr 2025 18:42

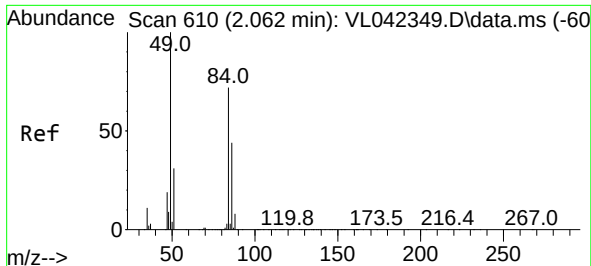
Tgt Ion: 45 Resp: 95671

Ion Ratio Lower Upper

45 100

58 2.3 34.5 51.7#

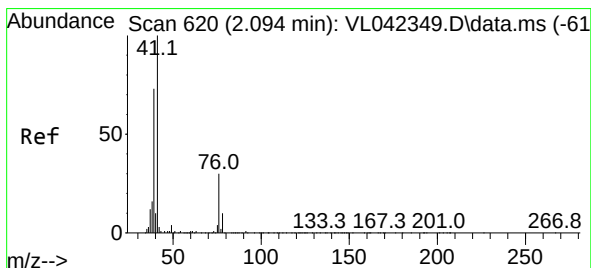
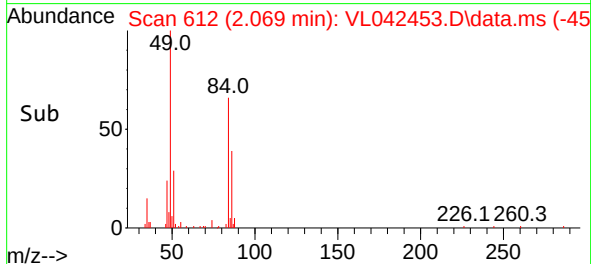
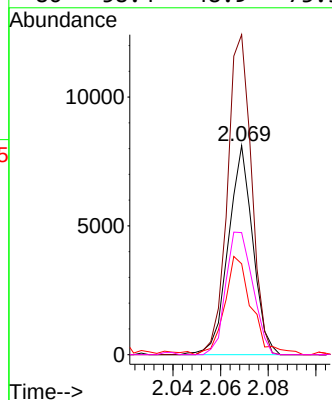
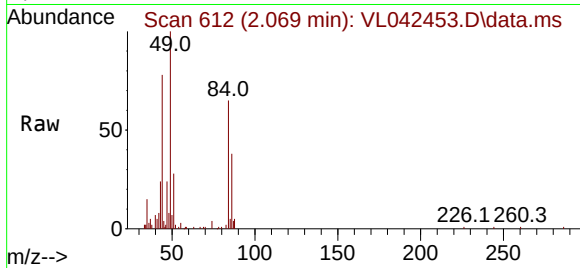




#20
Methylene Chloride
Concen: 0.790 ppbv
RT: 2.069 min Scan# 610
Delta R.T. 0.007 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

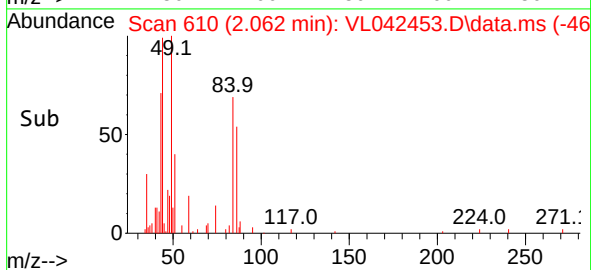
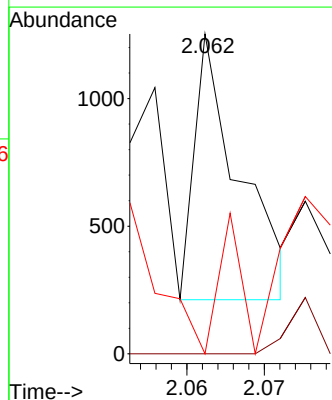
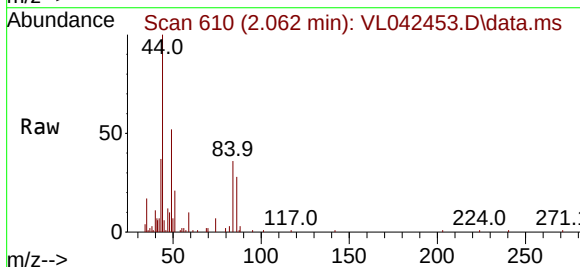
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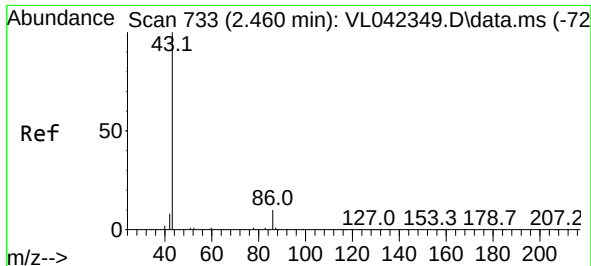
Tgt Ion:	84	Resp:	5787
Ion	Ratio	Lower	Upper
84	100		
49	153.1	111.6	167.4
51	42.5	35.1	52.7
86	58.4	48.9	73.3



#21
Allyl Chloride
Concen: 0.033 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.032 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion:	41	Resp:	421
Ion	Ratio	Lower	Upper
41	100		
76	13.1	24.8	37.2#
39	292.4	60.6	90.8#

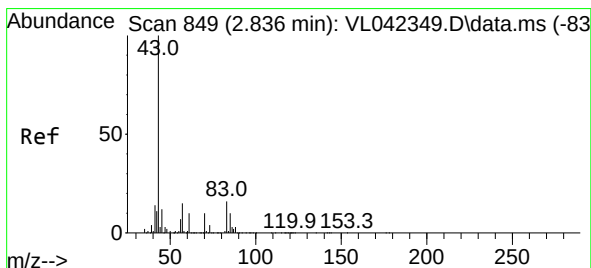
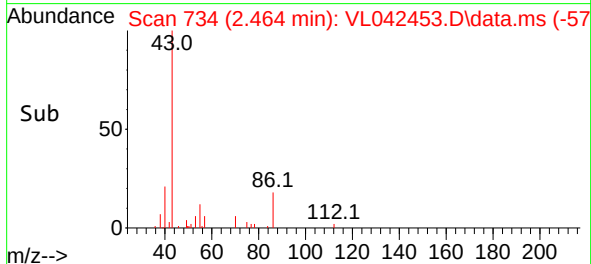
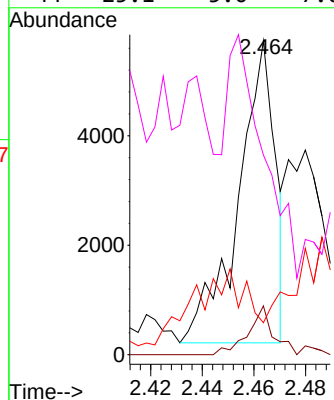
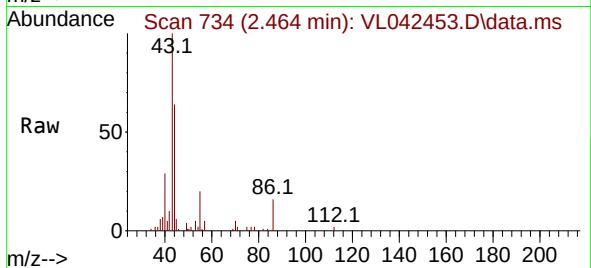




#23
Vinyl Acetate
Concen: 0.728 ppbv
RT: 2.464 min Scan# 71
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

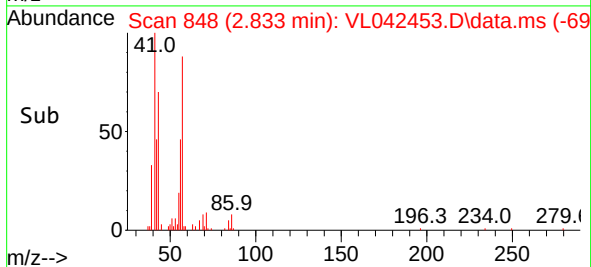
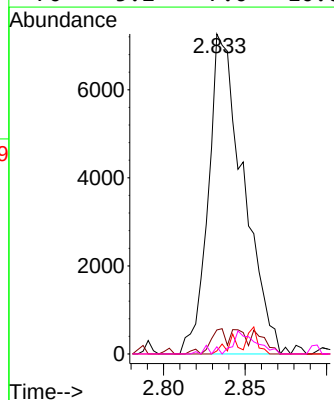
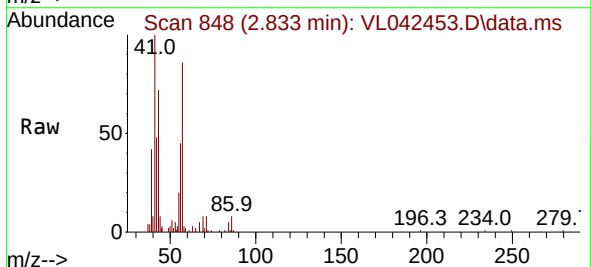
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-3242025DL

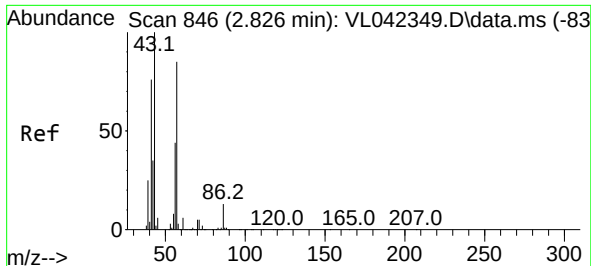
Tgt Ion: 43	Resp: 5507
Ion Ratio	Lower Upper
43	100
86	16.1 6.5 9.7#
42	0.0 7.8 11.8#
44	25.1 5.0 7.6#



#25
Ethyl Acetate
Concen: 0.235 ppbv
RT: 2.833 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 43	Resp: 10846
Ion Ratio	Lower Upper
43	100
45	9.8 8.3 12.5
61	4.3 7.3 10.9#
70	5.2 7.0 10.6#

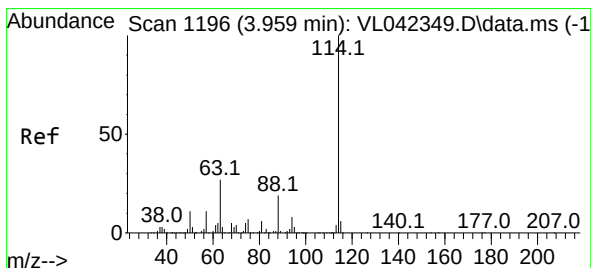
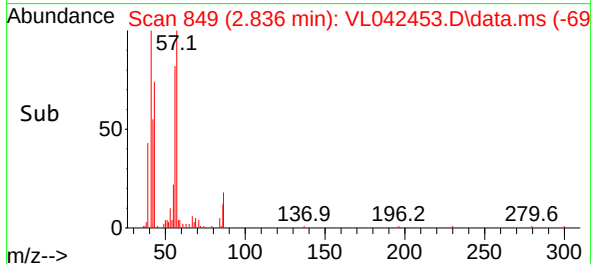
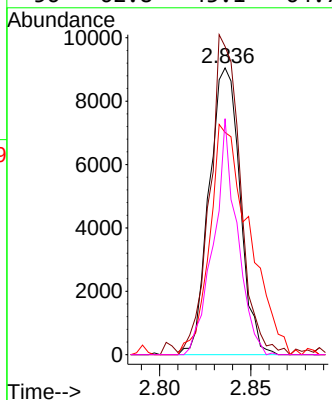
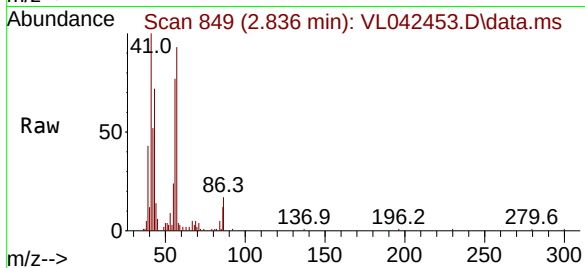




#26
Hexane
Concen: 0.570 ppbv
RT: 2.836 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

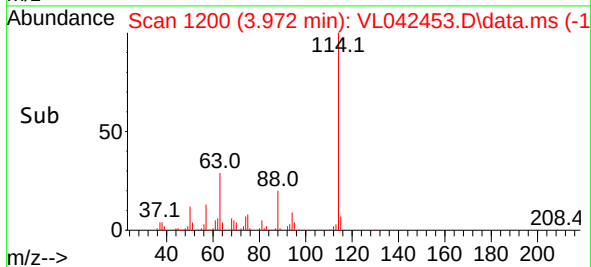
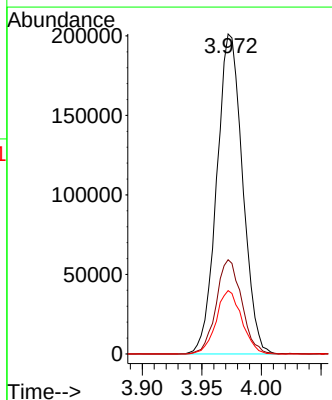
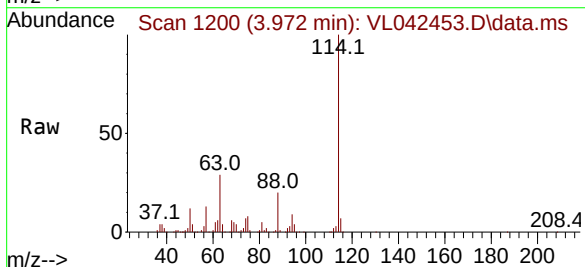
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-3242025DL

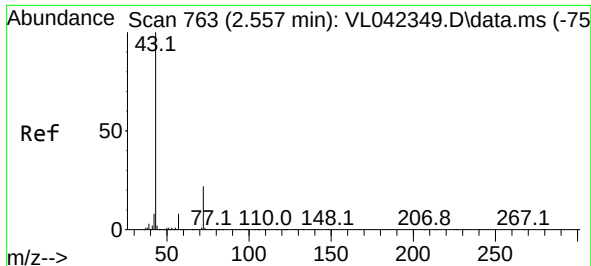
Tgt Ion: 57 Resp: 10634
Ion Ratio Lower Upper
57 100
41 112.6 77.9 116.9
43 102.9 208.4 312.6#
56 62.8 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 114 Resp: 302811
Ion Ratio Lower Upper
114 100
63 29.1 21.8 32.6
88 19.6 15.5 23.3

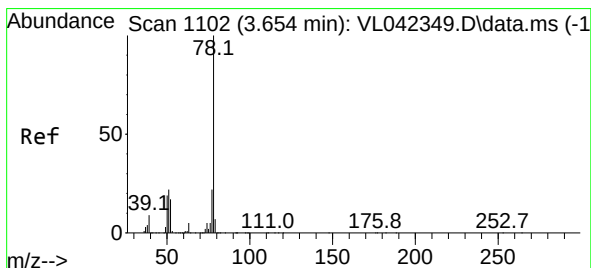
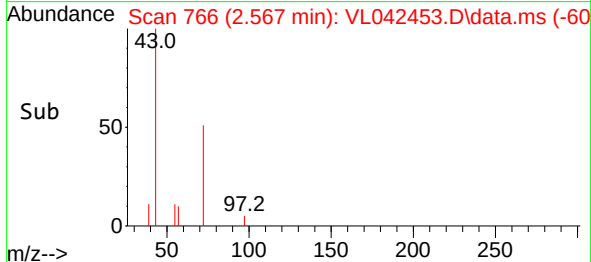
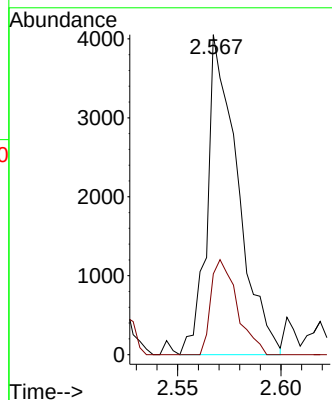
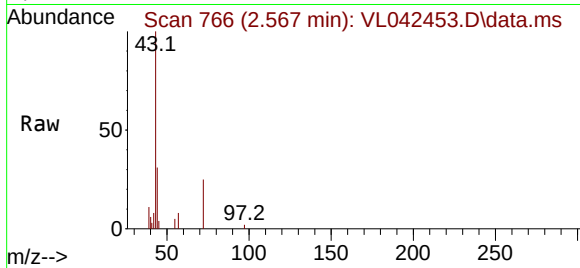




#34
2-Butanone
Concen: 0.174 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

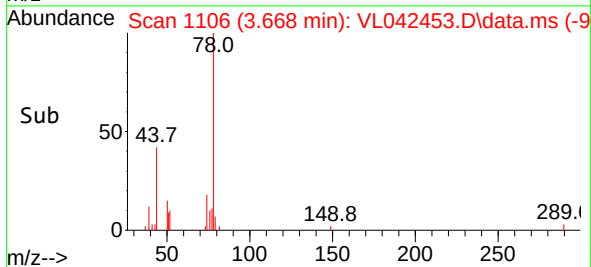
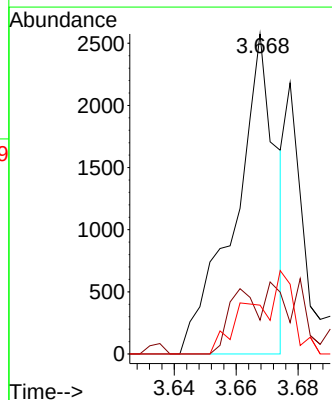
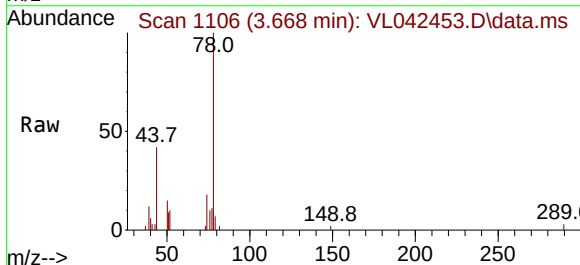
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-3242025DL

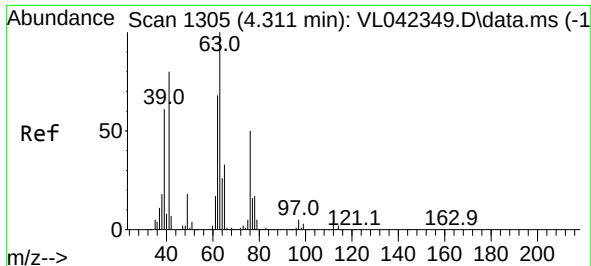
Tgt Ion: 43 Resp: 4171
Ion Ratio Lower Upper
43 100
72 25.4 18.2 27.2



#36
Benzene
Concen: 0.072 ppbv
RT: 3.668 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 78 Resp: 2348
Ion Ratio Lower Upper
78 100
77 10.6 17.4 26.0#
50 15.3 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 7.237 ppbv

RT: 3.972 min Scan# 11

Delta R.T. -0.339 min

Lab File: VL042453.D

Acq: 29 Apr 2025 18:42

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-3242025DL

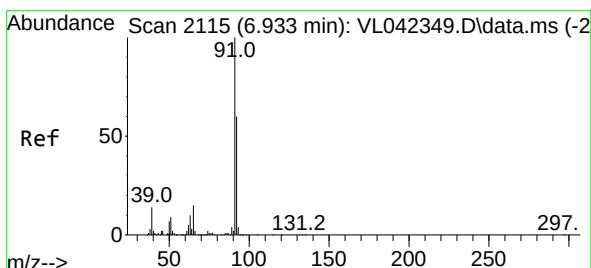
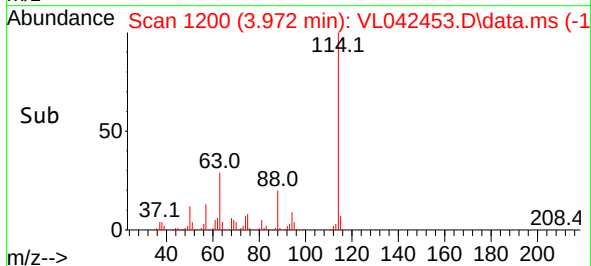
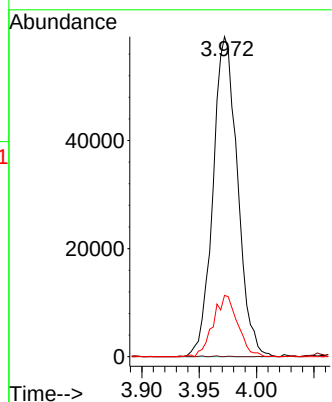
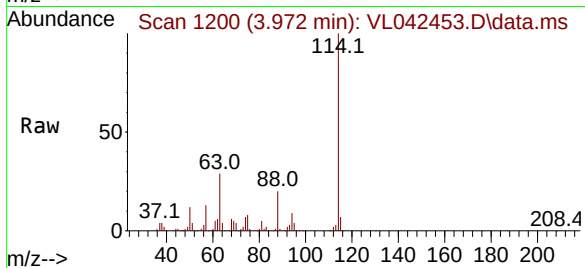
Tgt Ion: 63 Resp: 88088

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 19.1 54.3 81.5#



#53

Toluene

Concen: 1.429 ppbv

RT: 6.950 min Scan# 2120

Delta R.T. 0.017 min

Lab File: VL042453.D

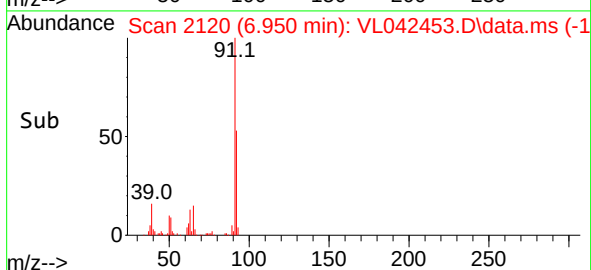
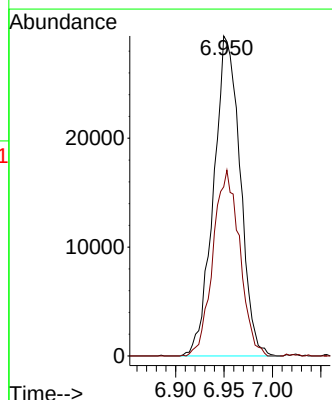
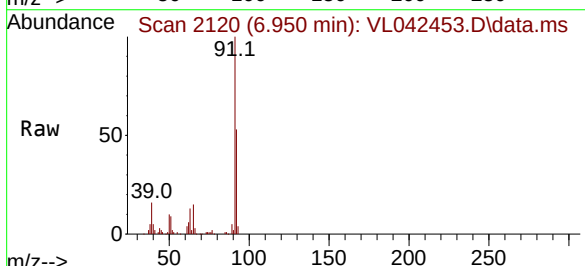
Acq: 29 Apr 2025 18:42

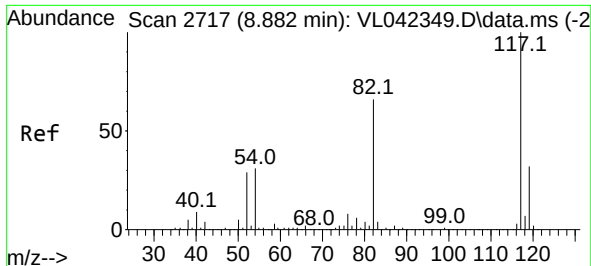
Tgt Ion: 91 Resp: 56027

Ion Ratio Lower Upper

91 100

92 58.2 48.2 72.4

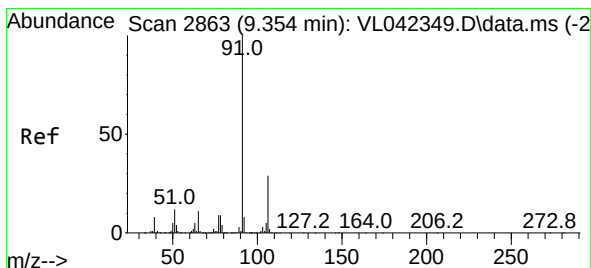
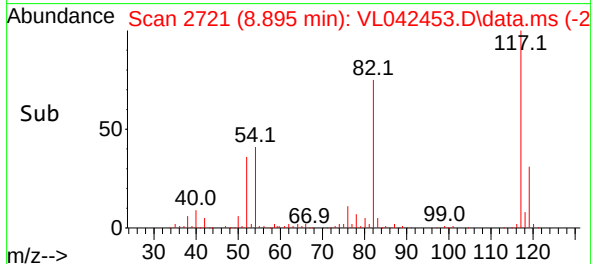
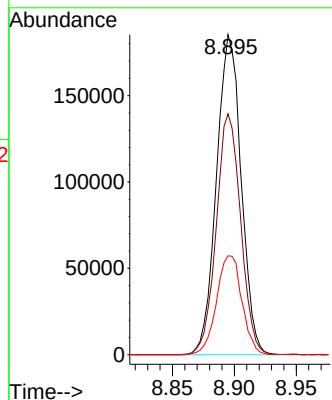
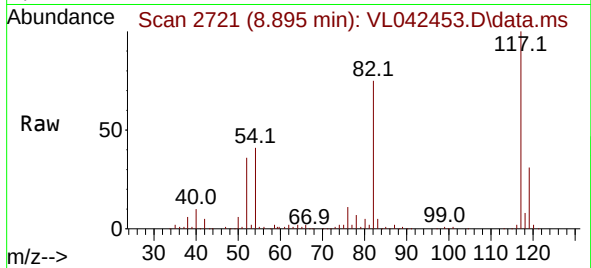




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2117
Delta R.T. 0.013 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

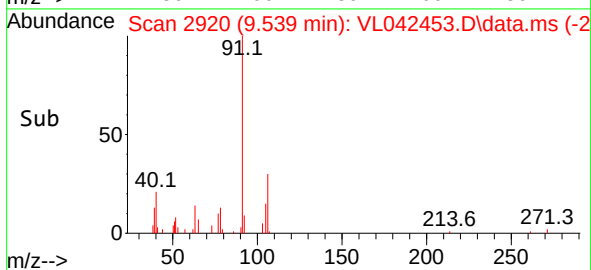
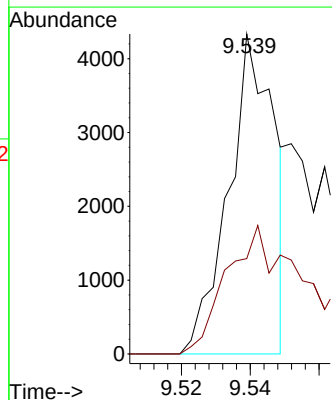
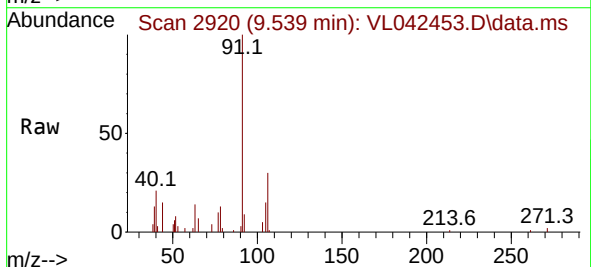
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-3242025DL

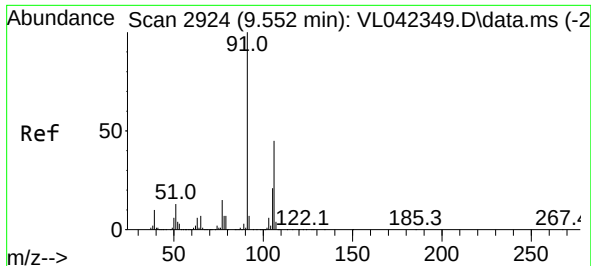
Tgt Ion:117 Resp: 257605
Ion Ratio Lower Upper
117 100
82 74.3 57.8 86.6
119 31.9 25.2 37.8



#58
Ethyl Benzene
Concen: 0.078 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. 0.185 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 91 Resp: 4000
Ion Ratio Lower Upper
91 100
106 29.8 23.0 34.4





#59

m/p-Xylene

Concen: 0.050 ppbv

RT: 9.562 min Scan# 2924

Delta R.T. 0.010 min

Lab File: VL042453.D

Acq: 29 Apr 2025 18:42

Instrument :

MSVOA_L

ClientSampleId :

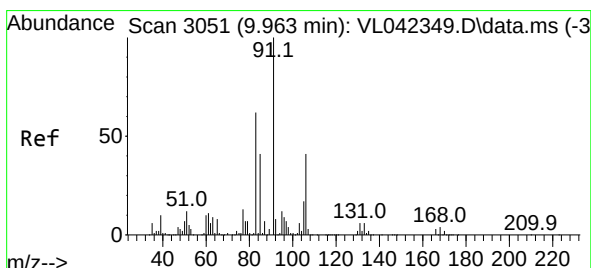
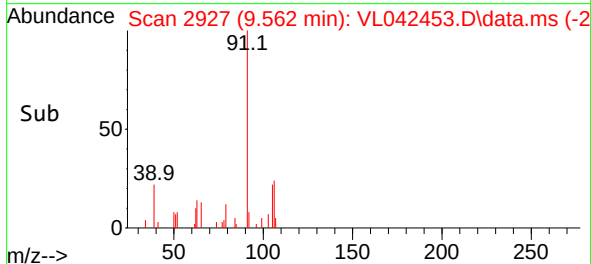
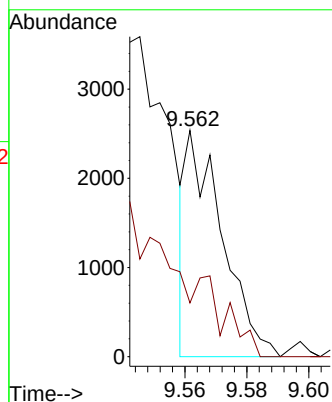
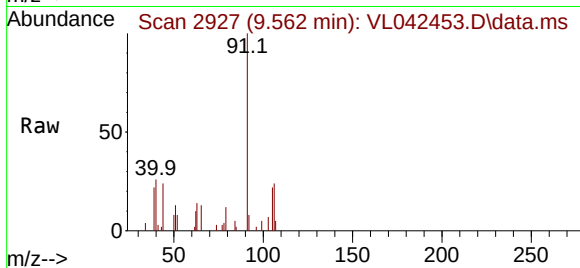
IA-B2-1-3242025DL

Tgt Ion: 91 Resp: 2048

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.033 ppbv

RT: 9.982 min Scan# 3057

Delta R.T. 0.020 min

Lab File: VL042453.D

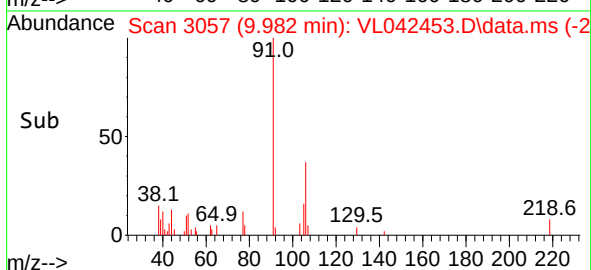
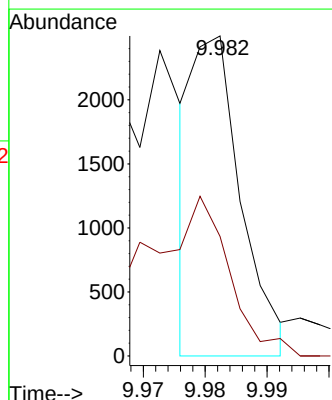
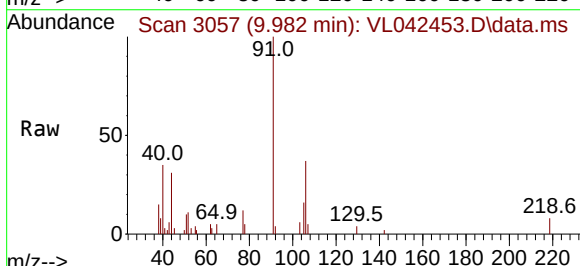
Acq: 29 Apr 2025 18:42

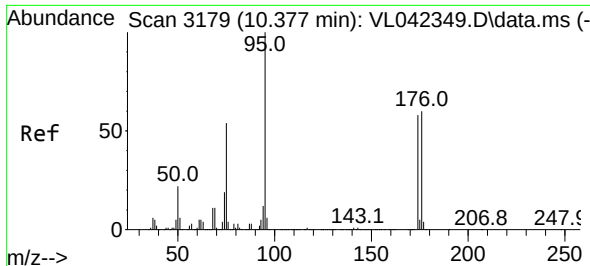
Tgt Ion: 91 Resp: 1346

Ion Ratio Lower Upper

91 100

106 89.4 21.1 63.4#

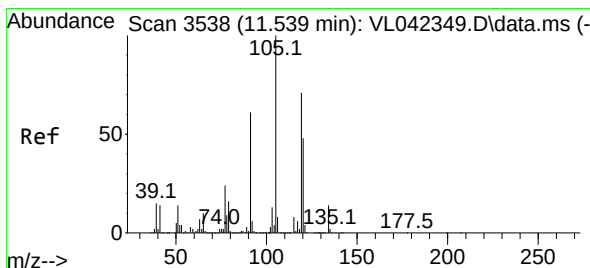
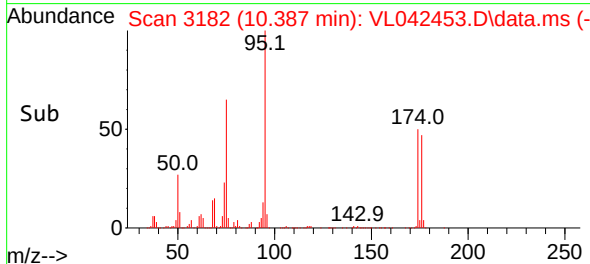
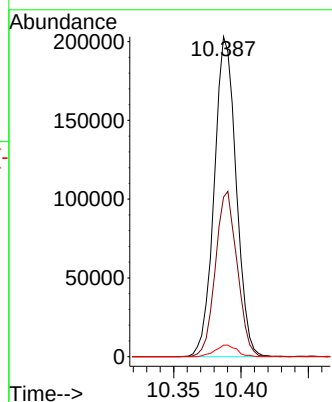
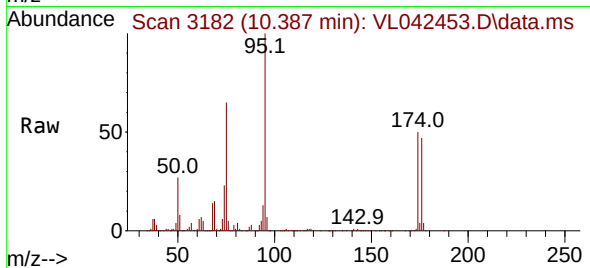




#68
1-Bromo-4-Fluorobenzene
Concen: 10.861 ppbv
RT: 10.387 min Scan# 3179
Delta R.T. 0.010 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-3242025DL

Tgt Ion: 95 Resp: 229916
Ion Ratio Lower Upper
95 100
174 51.3 48.5 72.7
175 3.6 3.7 5.5#



#74
1,2,4-Trimethylbenzene
Concen: 0.043 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.004 min
Lab File: VL042453.D
Acq: 29 Apr 2025 18:42

Tgt Ion: 105 Resp: 2240
Ion Ratio Lower Upper
105 100
120 36.7 38.1 57.1#
91 12.6 48.8 73.2#
77 25.8 19.0 28.4

