

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042652.D
 Acq On : 19 Jun 2025 12:34
 Operator : SY/MD
 Sample : Q2359-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

Quant Time: Jun 20 01:36:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	116053	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.978	114	302999	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.898	117	260992	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	203142	10.383	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8554	0.600	ppbv	98
3) Chlorodifluoromethane	1.450	51	40521	2.063	ppbv #	69
4) Chloromethane	1.535	50	14543	2.575	ppbv	99
5) Vinyl Chloride	1.583	62	194	0.034	ppbv	97
6) Bromomethane	1.671	94	100	0.036	ppbv #	54
7) Chloroethane	1.706	64	346	0.155	ppbv #	83
9) Propene	1.486	41	11455	1.448	ppbv	95
10) Heptane	5.001	43	46385	2.080	ppbv	99
11) Trichlorofluoromethane	1.881	101	3301	0.249	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.153	101	875	0.084	ppbv	92
13) Ethanol	1.729	45	101728	107.902	ppbv	98
15) Acetone	1.842	43	433249	30.993	ppbv	100
16) 1,3-Butadiene	1.622	39	1219	0.184	ppbv #	13
17) tert-Butyl alcohol	2.049	59	13782	0.946	ppbv	99
19) Isopropyl Alcohol	1.894	45	33433	4.001	ppbv #	1
20) Methylene Chloride	2.072	84	16777	3.637	ppbv	98
21) Allyl Chloride	2.049	41	4350	0.441	ppbv #	81
22) trans-1,2-Dichloroethene	2.735	96	59319	10.994	ppbv	87
23) Vinyl Acetate	2.463	43	30066	1.591	ppbv #	93
24) 1,1-Dichloroethane	2.421	63	843	0.076	ppbv #	88
25) Ethyl Acetate	2.849	43	48078	1.257	ppbv #	97
26) Hexane	2.842	57	20557	1.183	ppbv	91
27) Carbon Disulfide	2.153	76	1060	0.079	ppbv #	59
29) Chloroform	2.862	83	6269	0.277	ppbv	100
30) Cyclohexane	3.868	84	582	0.040	ppbv #	1
31) cis-1,2-Dichloroethene	2.735	61	90052	5.663	ppbv	97
34) 2-Butanone	2.567	43	63602	2.943	ppbv	99
35) Carbon Tetrachloride	3.791	117	677	0.034	ppbv	84
36) Benzene	3.674	78	17420	0.584	ppbv #	91
37) 1,2-Dichloroethane	3.234	62	589	0.040	ppbv #	78
39) 1,2-Dichloropropane	3.978	63	76495	6.933	ppbv #	20
41) Tetrahydrofuran	3.066	42	195475	15.454	ppbv	99
44) 2,2,4-Trimethylpentane	4.668	57	1899	0.037	ppbv #	42
53) Toluene	6.956	91	32537	0.943	ppbv	97
58) Ethyl Benzene	9.374	91	11268	0.255	ppbv	98
59) m/p-Xylene	9.545	91	106408	3.054	ppbv	96
60) o-Xylene	9.979	91	30069	0.865	ppbv	98
61) Styrene	9.888	104	679	0.041	ppbv #	24
64) n-propylbenzene	10.999	120	1547	0.112	ppbv	78
65) tert-Butylbenzene	11.546	119	4144	0.089	ppbv #	45
66) Benzyl Chloride	11.633	91	312	0.052	ppbv #	64
69) p-Isopropyltoluene	11.934	119	4057	0.074	ppbv #	82
70) n-Butylbenzene	12.290	91	4324	0.080	ppbv #	56

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Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Quant Time: Jun 20 01:36:51 2025
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

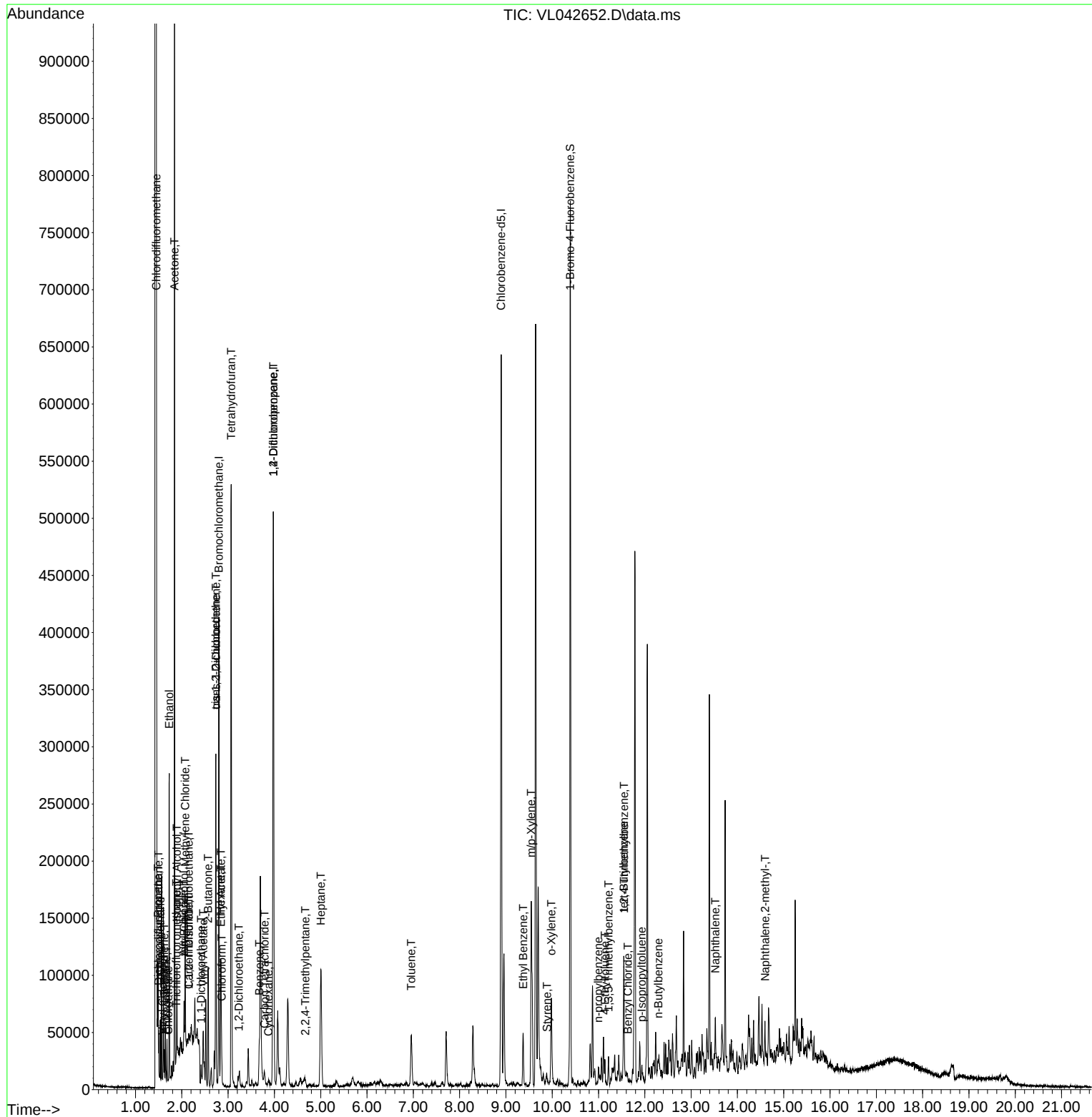
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	11.138	105	7407	0.171	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.215	105	6906	0.193	ppbv	89
74) 1,2,4-Trimethylbenzene	11.549	105	35737	0.898	ppbv #	68
79) Naphthalene	13.523	128	19001	0.507	ppbv #	95
80) Naphthalene,2-methyl-	14.598	142	8925	0.527	ppbv	94

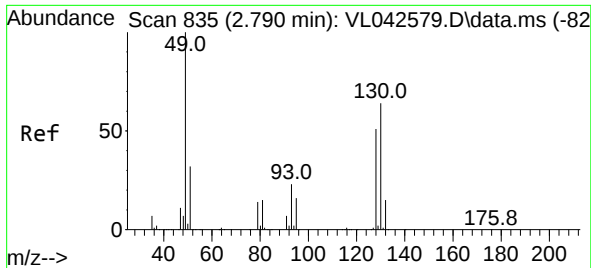
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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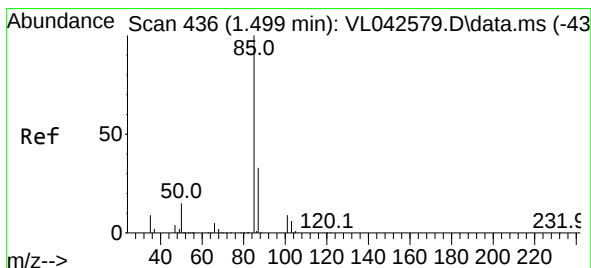
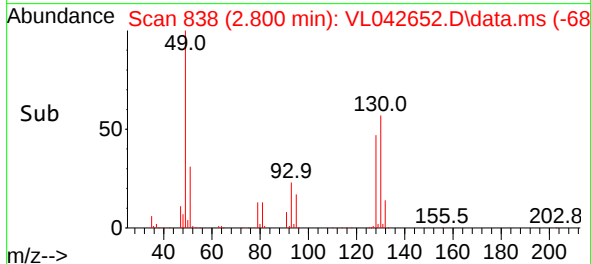
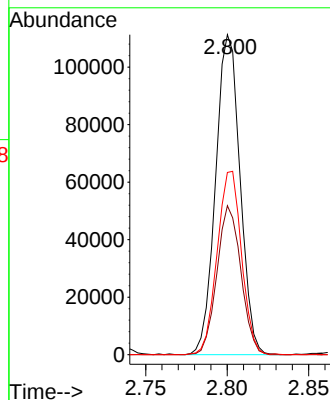
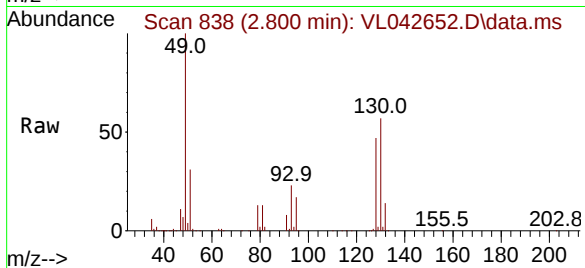




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 835
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

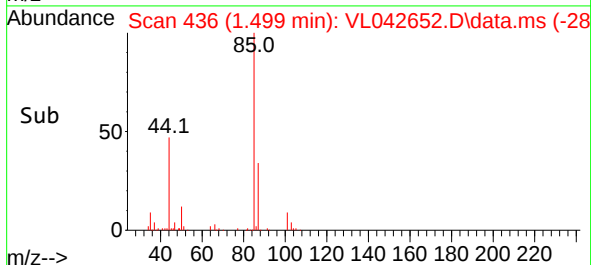
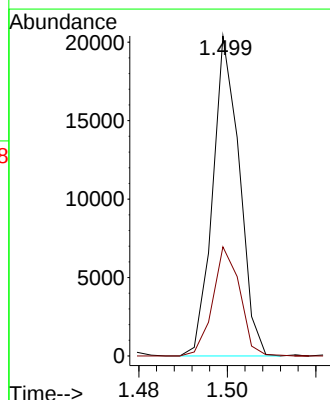
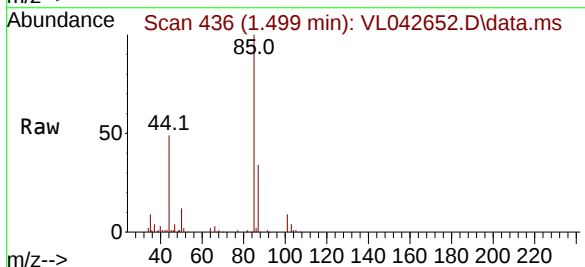
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

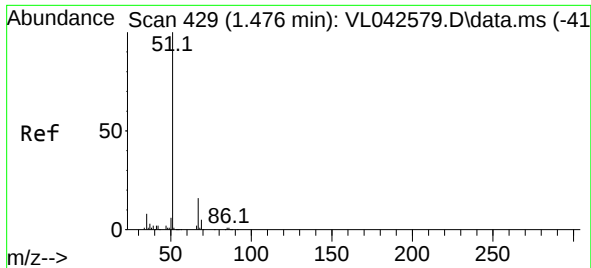
Tgt Ion: 49 Resp: 116053
Ion Ratio Lower Upper
49 100
128 45.6 24.2 72.6
130 57.2 30.4 91.2



#2
Dichlorodifluoromethane
Concen: 0.600 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 85 Resp: 8554
Ion Ratio Lower Upper
85 100
87 34.1 26.6 39.8

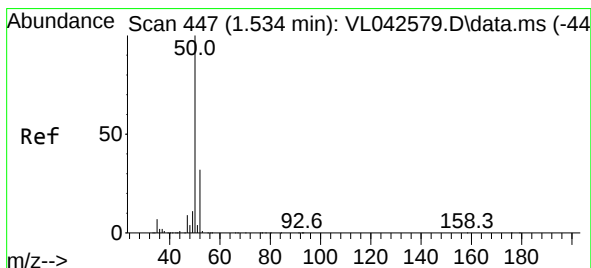
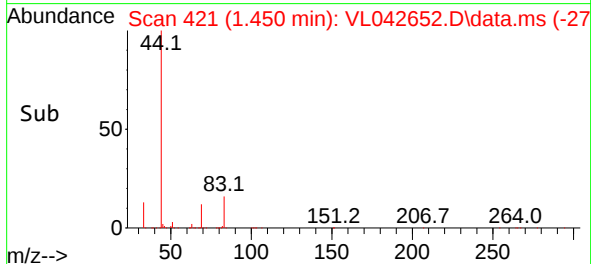
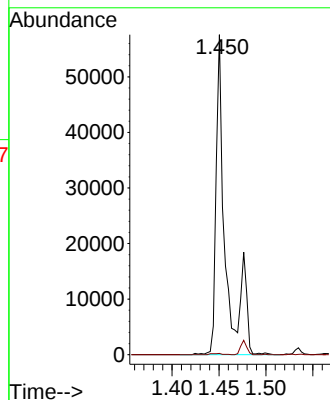
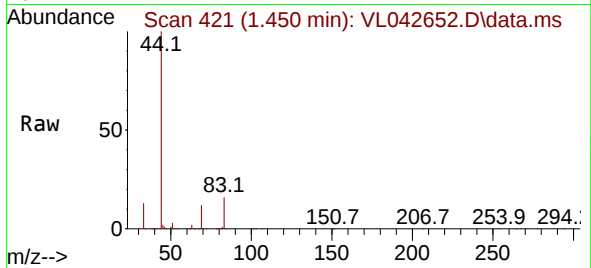




#3
Chlorodifluoromethane
Concen: 2.063 ppbv
RT: 1.450 min Scan# 41
Delta R.T. -0.026 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

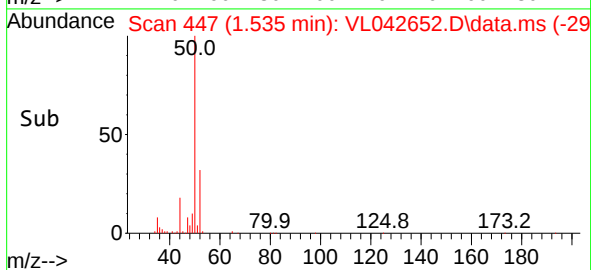
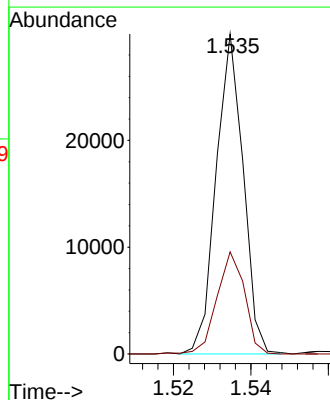
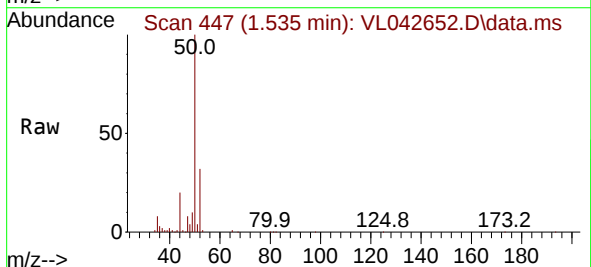
Instrument :
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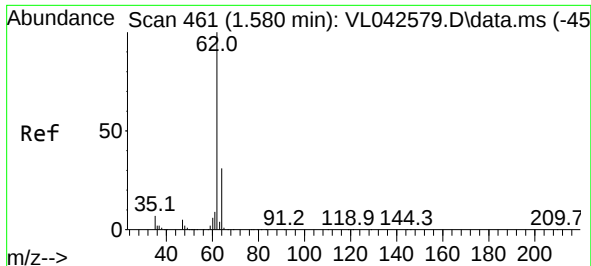
Tgt Ion: 51 Resp: 40521
Ion Ratio Lower Upper
51 100
67 3.3 13.4 20.2#



#4
Chloromethane
Concen: 2.575 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 50 Resp: 14543
Ion Ratio Lower Upper
50 100
52 31.7 25.8 38.6

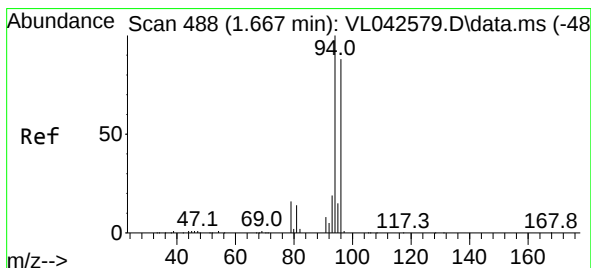
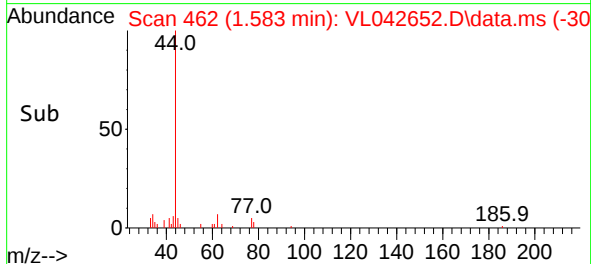
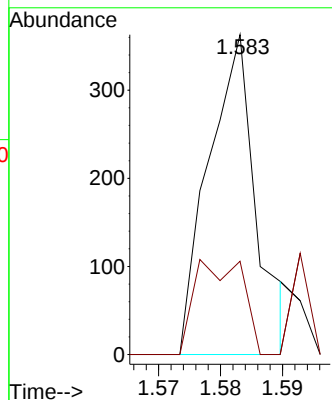
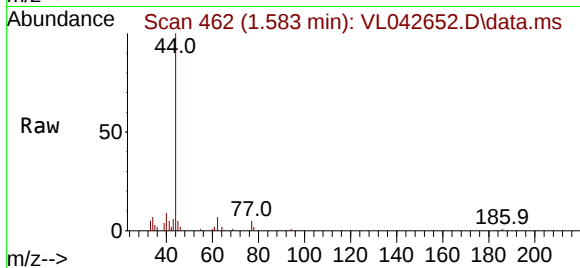




#5
 Vinyl Chloride
 Concen: 0.034 ppbv
 RT: 1.583 min Scan# 462
 Delta R.T. 0.003 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

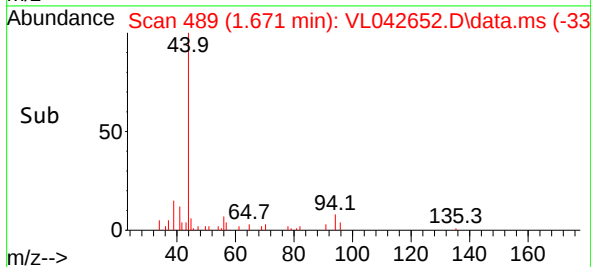
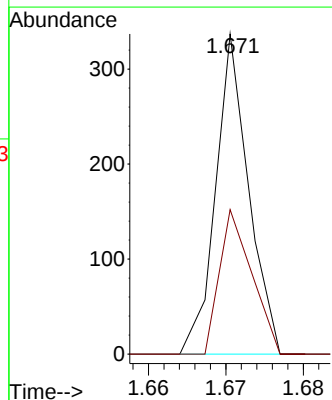
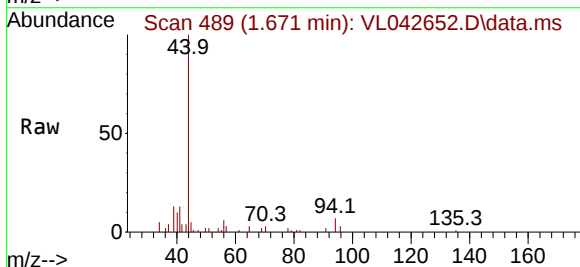
Instrument :
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 ClientSampleId :
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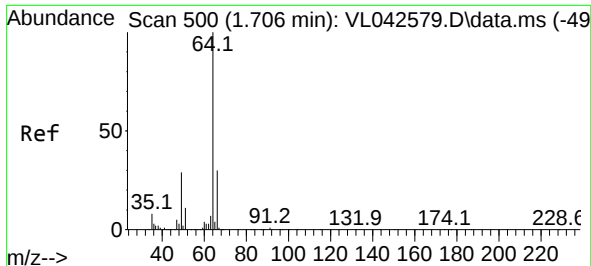
Tgt Ion: 62 Resp: 194
 Ion Ratio Lower Upper
 62 100
 64 29.2 24.9 37.3



#6
 Bromomethane
 Concen: 0.036 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 94 Resp: 100
 Ion Ratio Lower Upper
 94 100
 96 45.1 70.7 106.1#

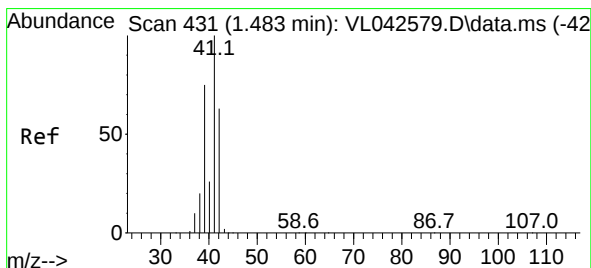
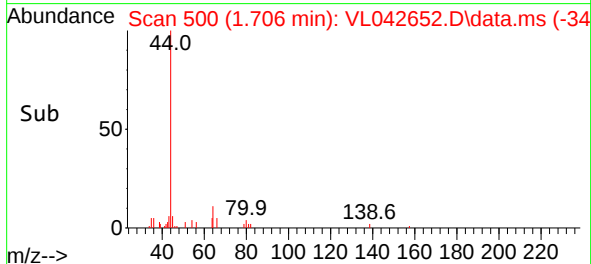
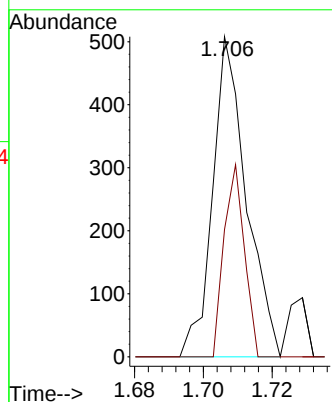
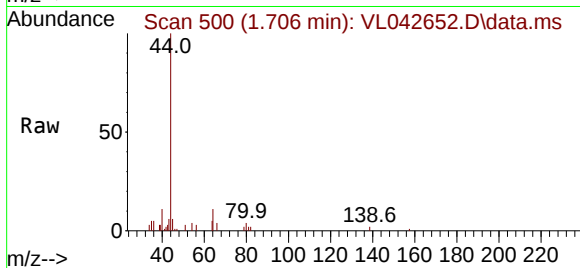




#7
Chloroethane
Concen: 0.155 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

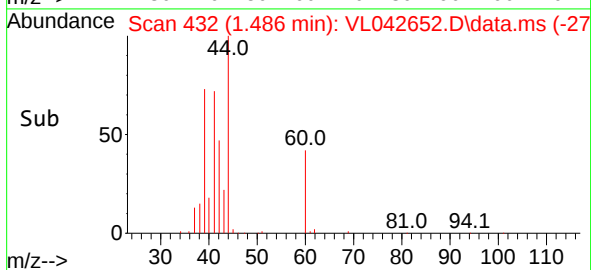
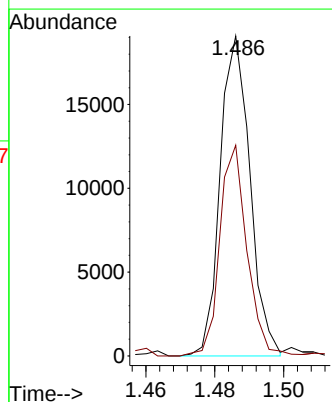
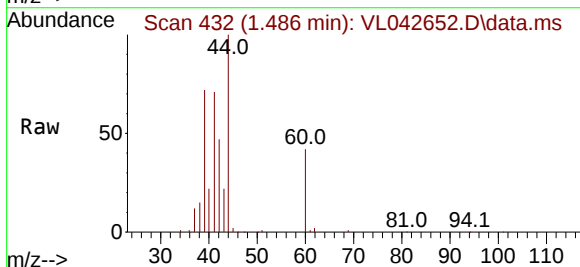
Instrument :
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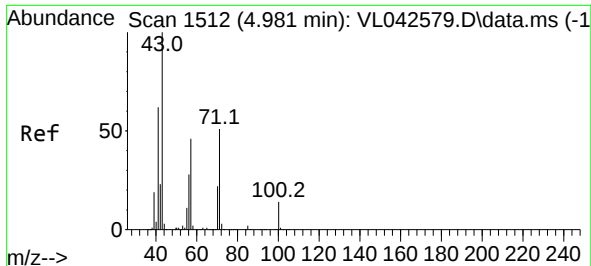
Tgt Ion: 64 Resp: 346
Ion Ratio Lower Upper
64 100
66 39.8 24.3 36.5#



#9
Propene
Concen: 1.448 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 41 Resp: 11455
Ion Ratio Lower Upper
41 100
42 62.4 53.3 79.9

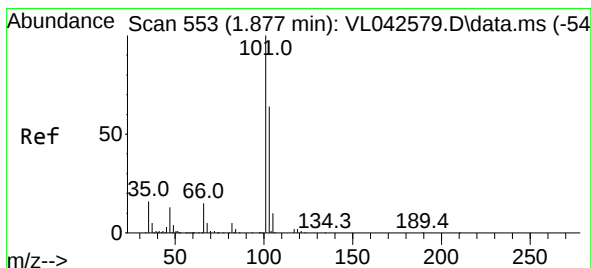
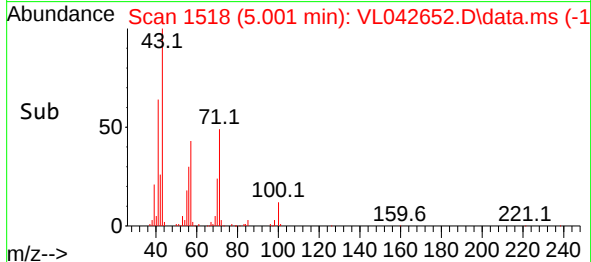
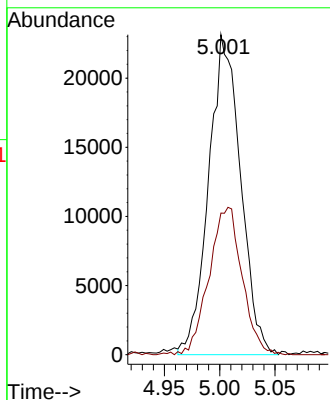
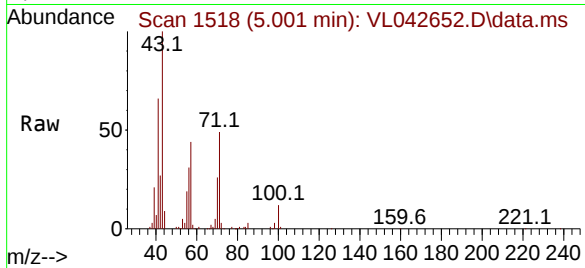




#10
Heptane
Concen: 2.080 ppbv
RT: 5.001 min Scan# 11
Delta R.T. 0.020 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

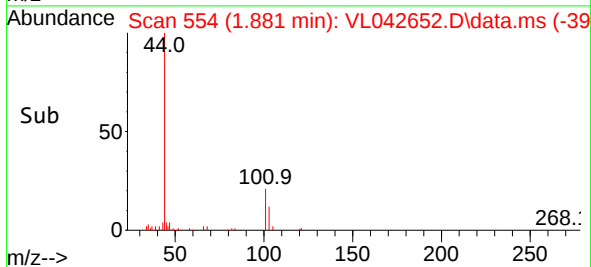
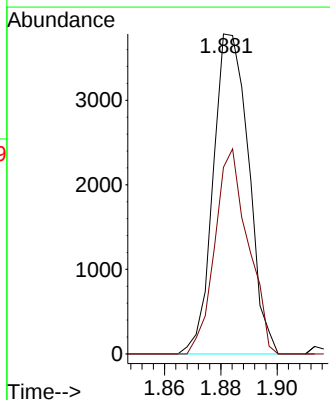
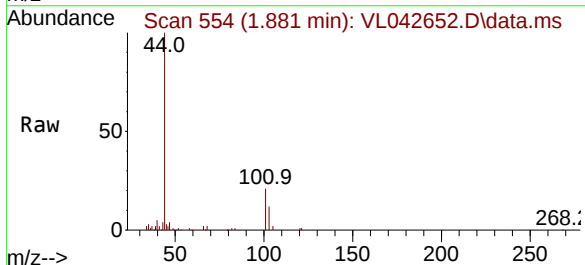
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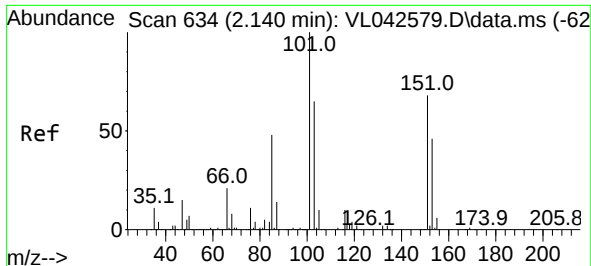
Tgt Ion: 43 Resp: 46385
Ion Ratio Lower Upper
43 100
57 47.8 38.9 58.3



#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion:101 Resp: 3301
Ion Ratio Lower Upper
101 100
103 58.3 51.5 77.3

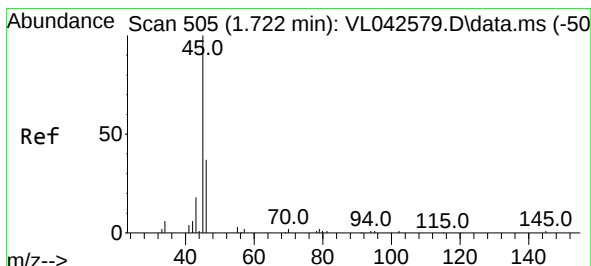
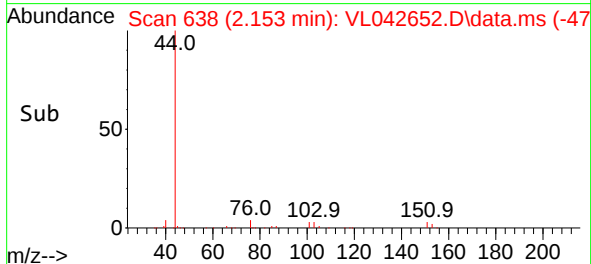
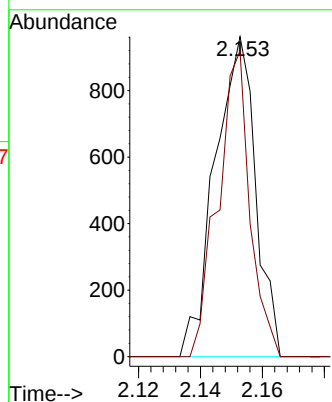
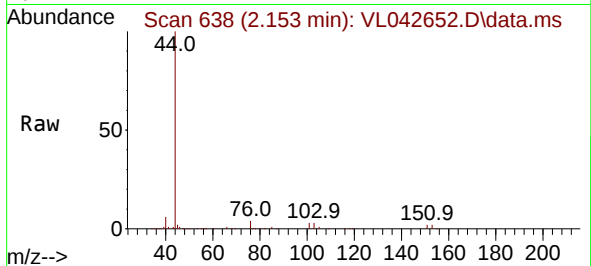




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.084 ppbv
 RT: 2.153 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

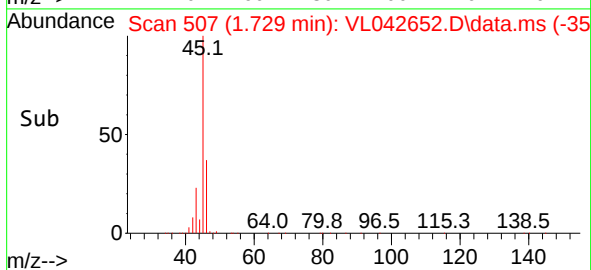
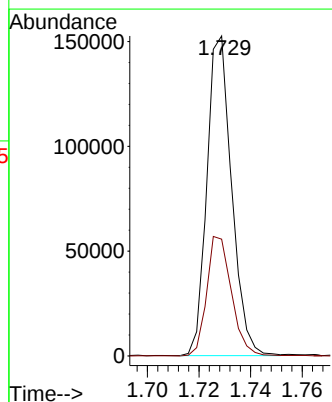
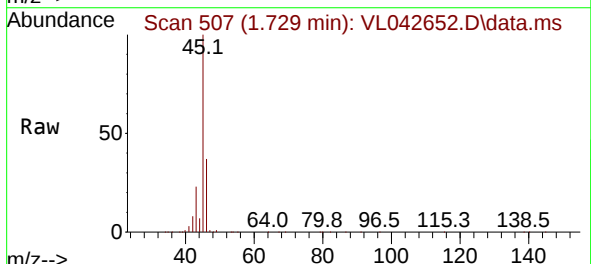
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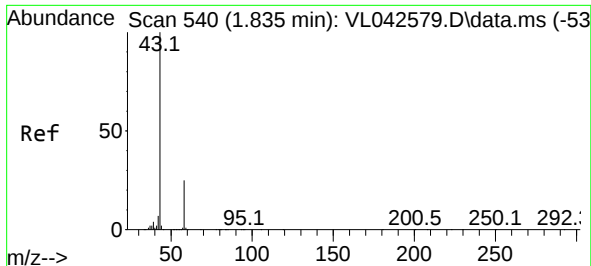
Tgt Ion:101 Resp: 875
 Ion Ratio Lower Upper
 101 100
 151 75.3 55.3 82.9



#13
 Ethanol
 Concen: 107.902 ppbv
 RT: 1.729 min Scan# 507
 Delta R.T. 0.007 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 45 Resp: 101728
 Ion Ratio Lower Upper
 45 100
 46 37.5 14.5 58.1

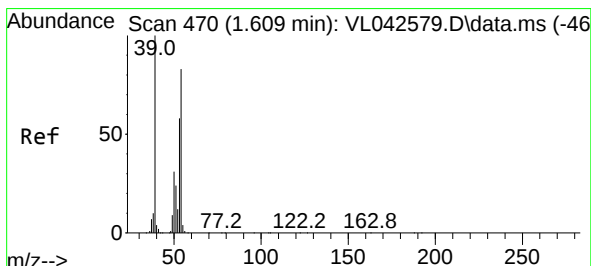
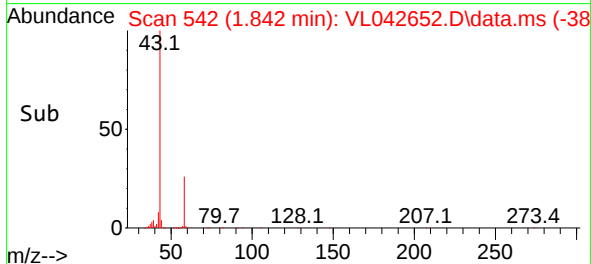
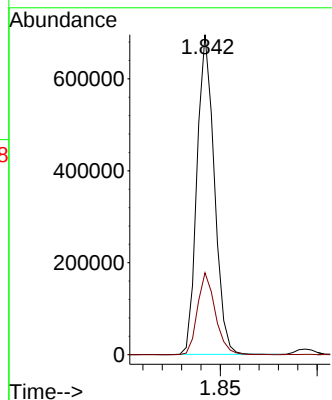
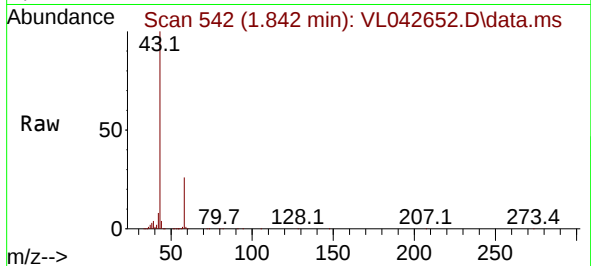




#15
Acetone
Concen: 30.993 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

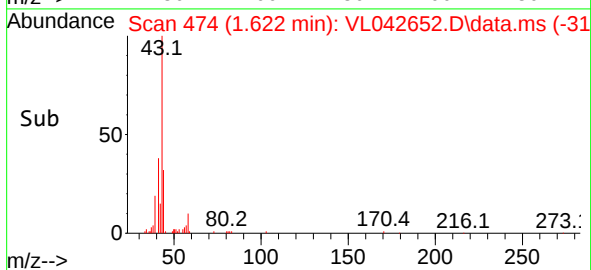
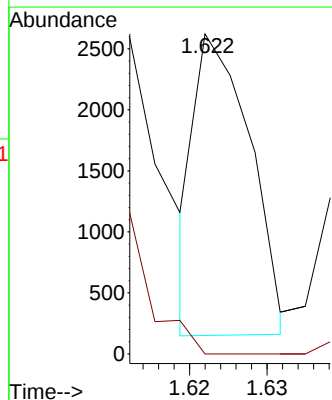
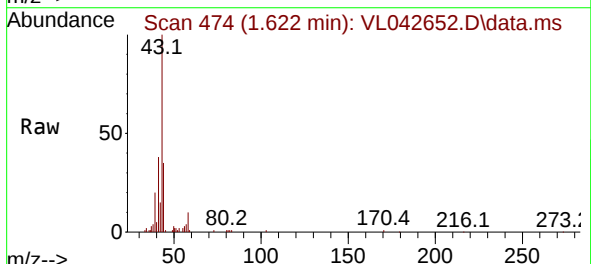
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

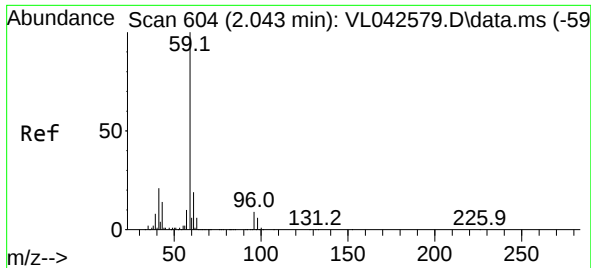
Tgt Ion: 43 Resp: 433249
Ion Ratio Lower Upper
43 100
58 26.3 21.0 31.4



#16
1,3-Butadiene
Concen: 0.184 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 39 Resp: 1219
Ion Ratio Lower Upper
39 100
54 0.0 57.9 86.9#

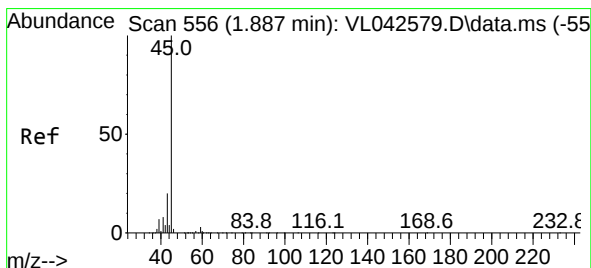
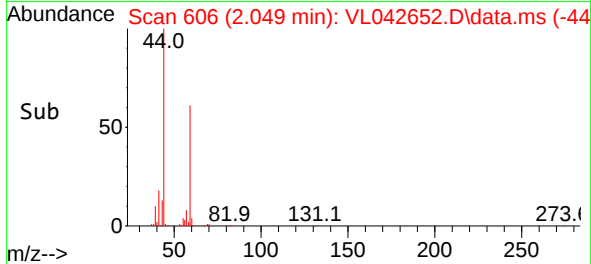
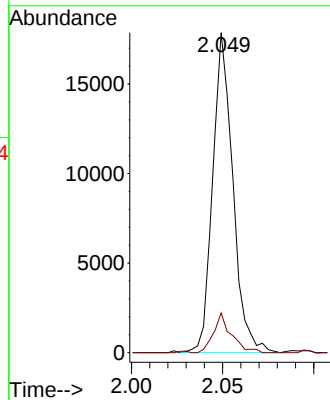
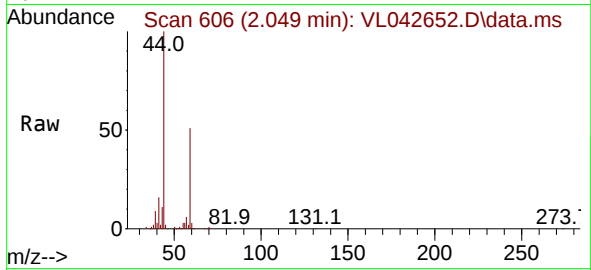




#17
tert-Butyl alcohol
Concen: 0.946 ppbv
RT: 2.049 min Scan# 604
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

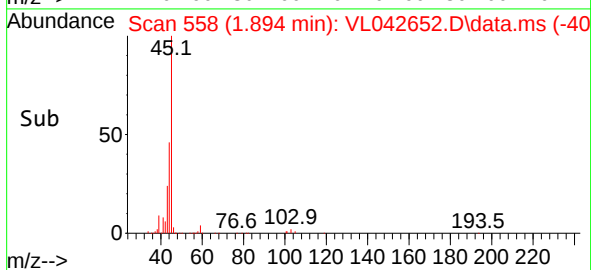
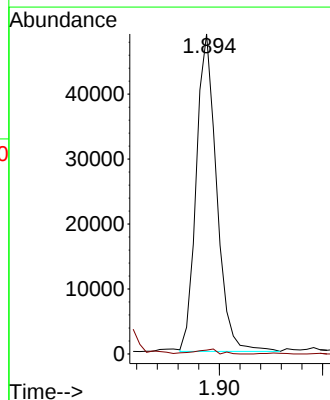
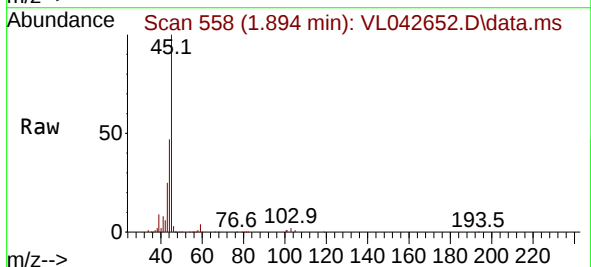
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

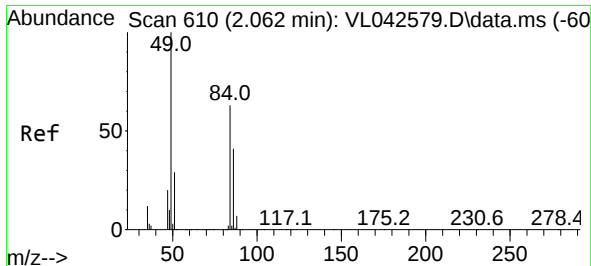
Tgt Ion: 59 Resp: 13782
Ion Ratio Lower Upper
59 100
57 11.1 8.6 12.8



#19
Isopropyl Alcohol
Concen: 4.001 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 45 Resp: 33433
Ion Ratio Lower Upper
45 100
58 340.6 29.4 44.2#



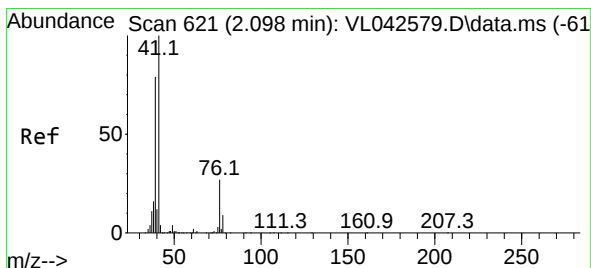
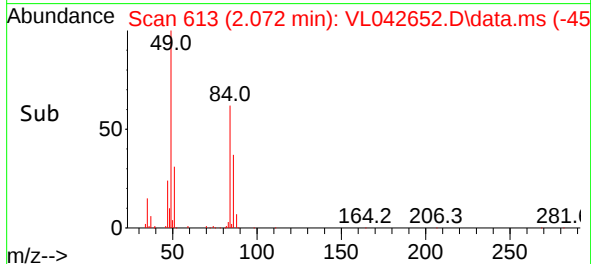
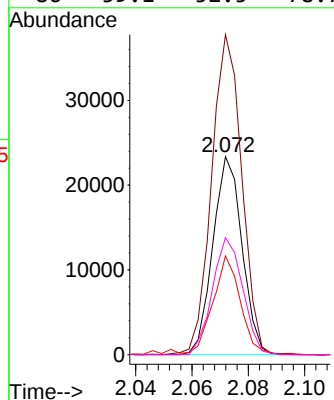
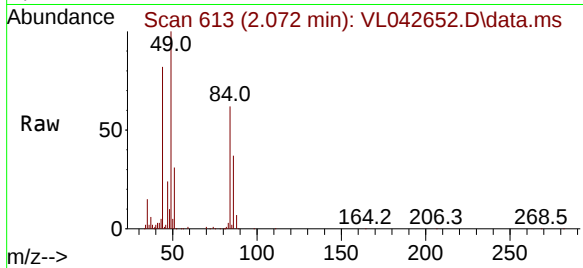


#20
Methylene Chloride
Concen: 3.637 ppbv
RT: 2.072 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

Tgt Ion: 84 Resp: 16777

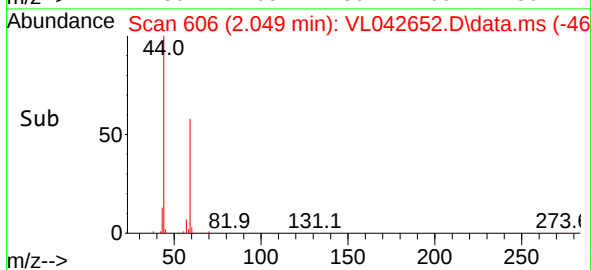
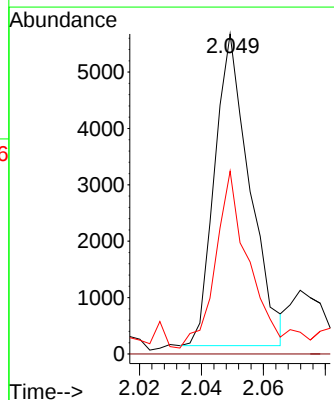
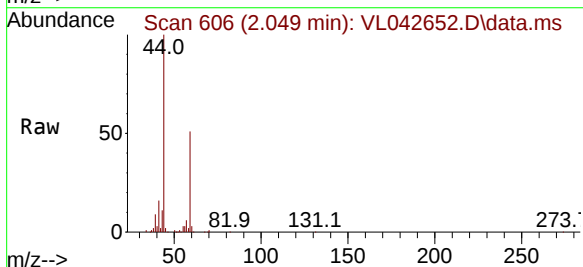
Ion	Ratio	Lower	Upper
84	100		
49	161.1	128.8	193.2
51	49.8	38.6	57.8
86	59.1	52.5	78.7

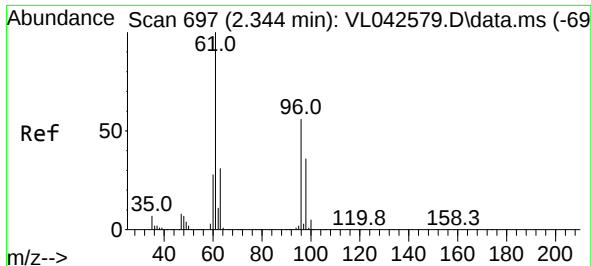


#21
Allyl Chloride
Concen: 0.441 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.048 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 41 Resp: 4350

Ion	Ratio	Lower	Upper
41	100		
76	0.0	21.2	31.8#
39	82.6	60.9	91.3

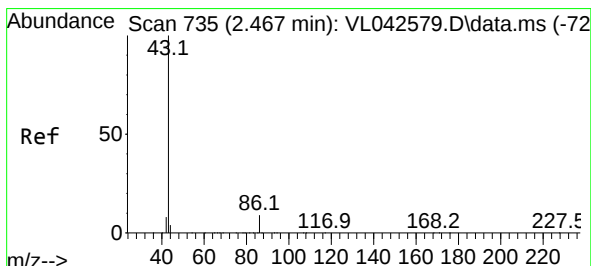
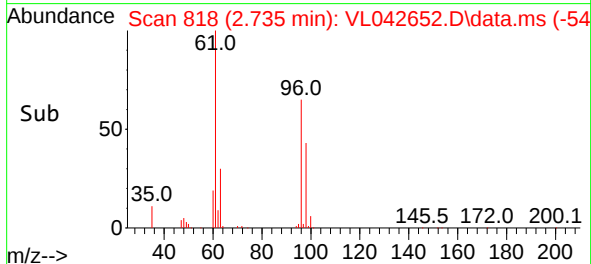
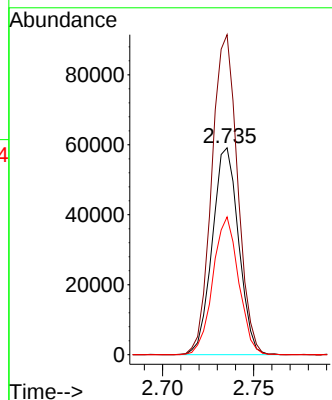
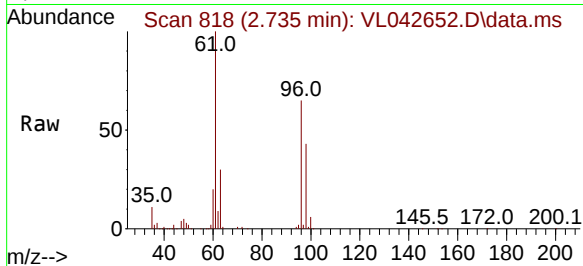




#22
trans-1,2-Dichloroethene
Concen: 10.994 ppbv
RT: 2.735 min Scan# 81
Delta R.T. 0.392 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

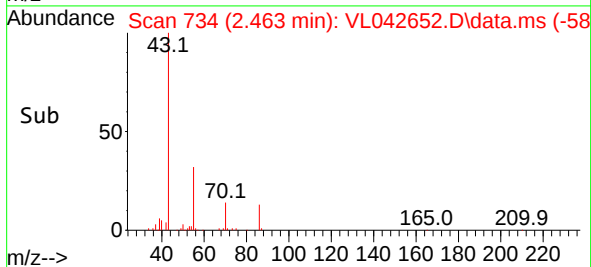
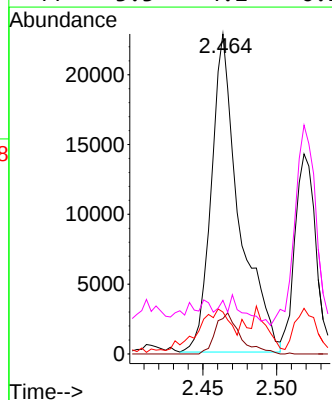
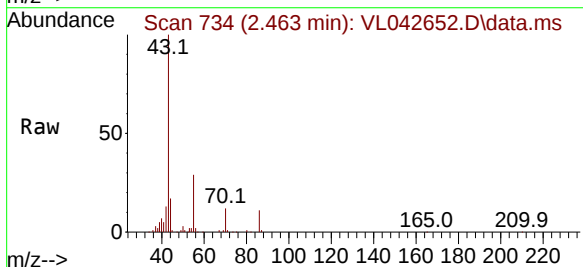
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

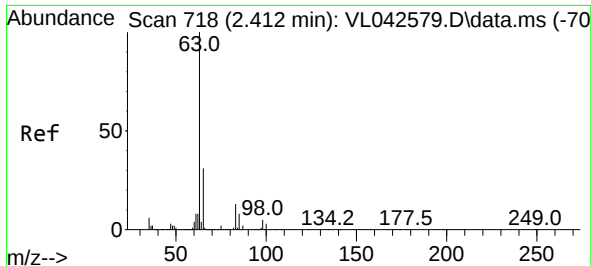
Tgt Ion: 96 Resp: 59319
Ion Ratio Lower Upper
96 100
61 154.6 142.6 214.0
98 66.6 51.0 76.4



#23
Vinyl Acetate
Concen: 1.591 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 43 Resp: 30066
Ion Ratio Lower Upper
43 100
86 11.1 6.6 9.8#
42 11.4 7.0 10.4#
44 3.3 4.2 6.2#

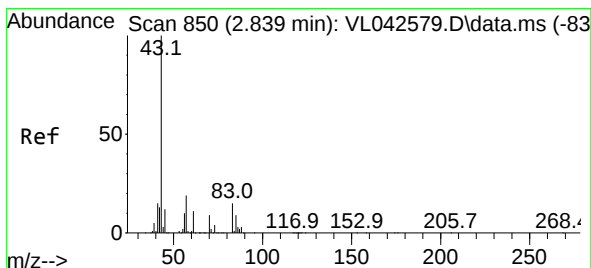
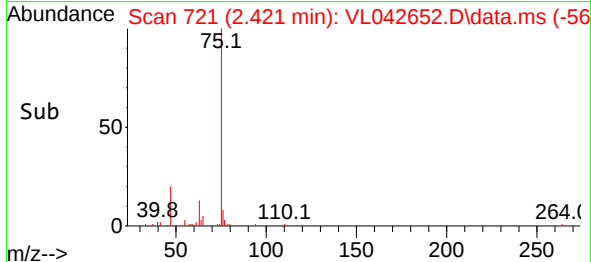
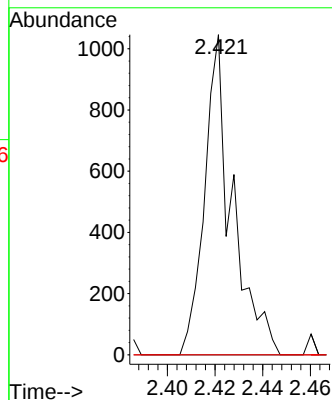
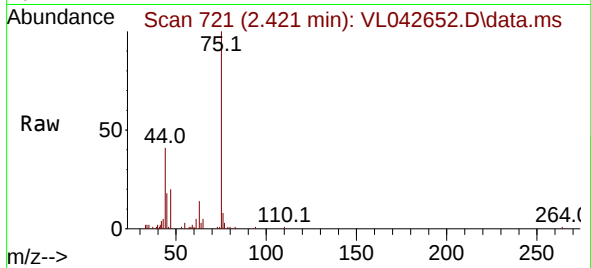




#24
1,1-Dichloroethane
Concen: 0.076 ppbv
RT: 2.421 min Scan# 718
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

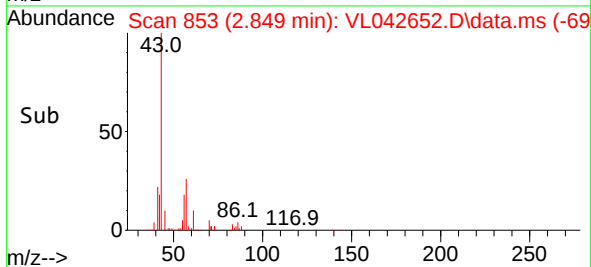
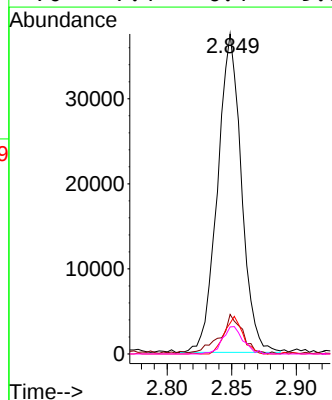
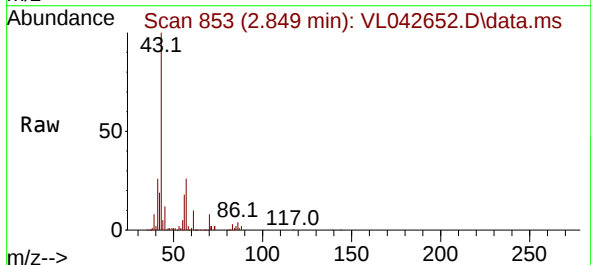
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

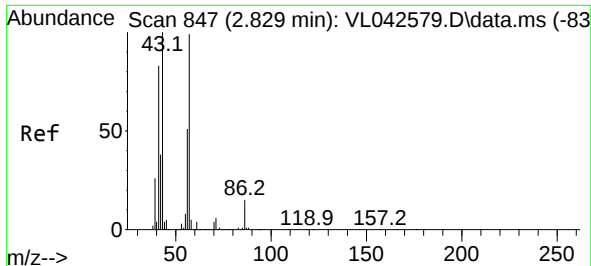
Tgt Ion: 63 Resp: 843
Ion Ratio Lower Upper
63 100
98 0.0 2.4 7.1#
100 0.0 1.4 4.0#



#25
Ethyl Acetate
Concen: 1.257 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 43 Resp: 48078
Ion Ratio Lower Upper
43 100
45 13.0 8.2 12.2#
61 9.1 7.1 10.7
70 7.4 6.4 9.6

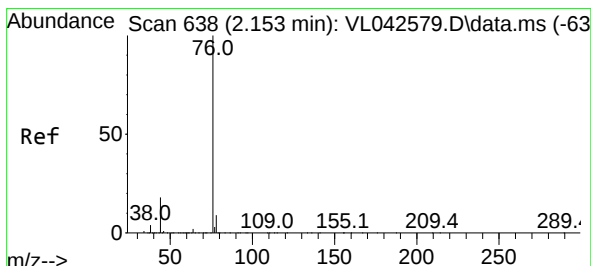
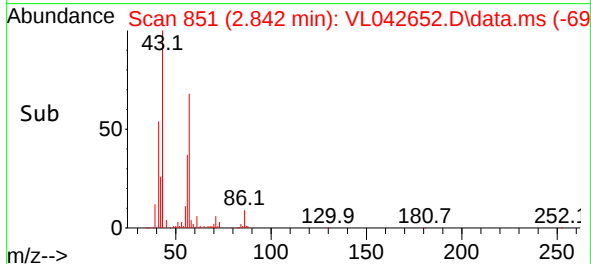
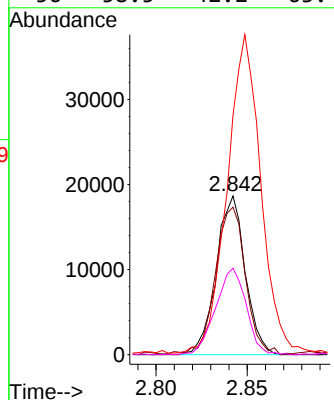
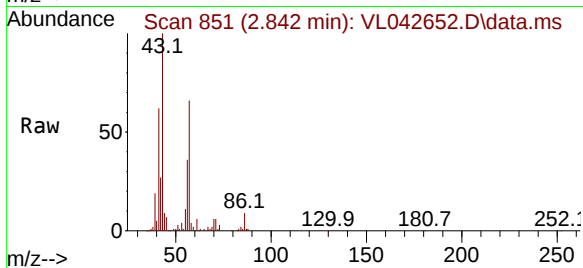




#26
Hexane
Concen: 1.183 ppbv
RT: 2.842 min Scan# 847
Delta R.T. 0.013 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

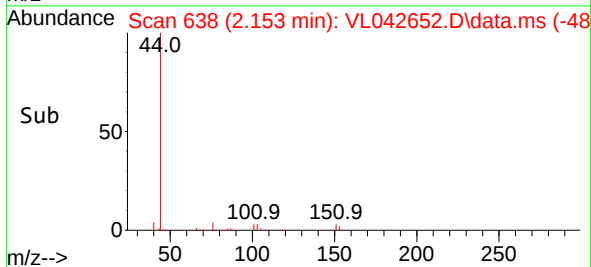
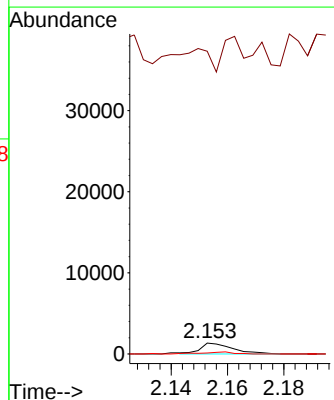
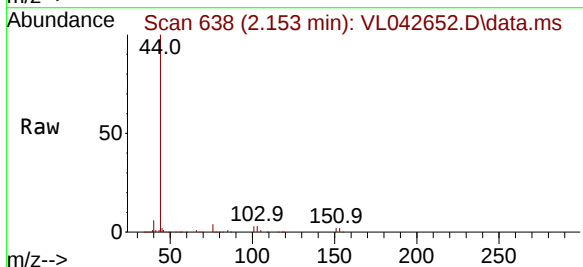
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

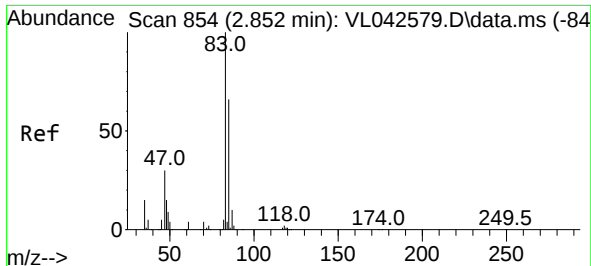
Tgt Ion: 57 Resp: 20557
Ion Ratio Lower Upper
57 100
41 97.3 70.6 106.0
43 240.7 181.1 271.7
56 58.5 42.2 63.4



#27
Carbon Disulfide
Concen: 0.079 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.000 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 76 Resp: 1060
Ion Ratio Lower Upper
76 100
44 0.0 21.3 31.9#
78 18.2 9.4 14.0#





#29

Chloroform

Concen: 0.277 ppbv

RT: 2.862 min Scan# 81

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

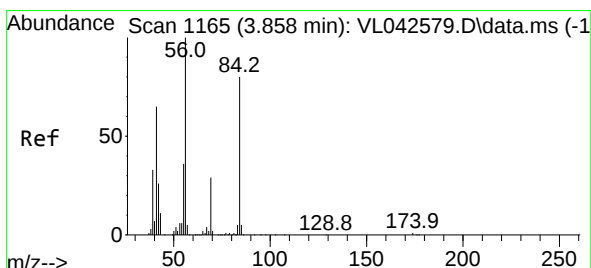
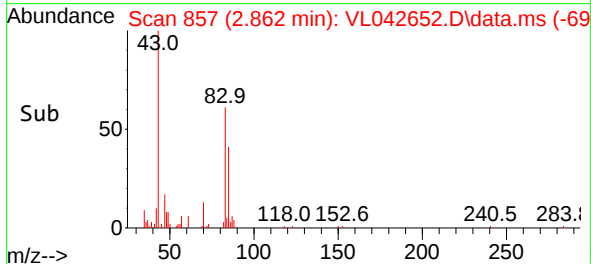
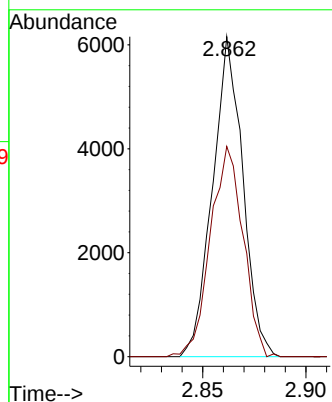
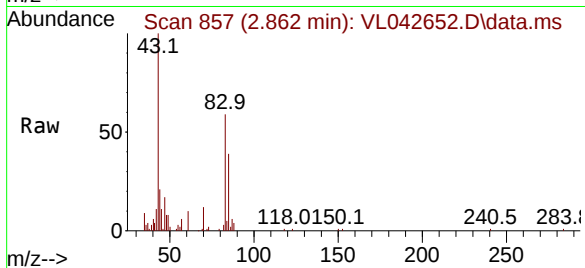
SS-1DUP

Tgt Ion: 83 Resp: 6269

Ion Ratio Lower Upper

83 100

85 65.7 52.8 79.2



#30

Cyclohexane

Concen: 0.040 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

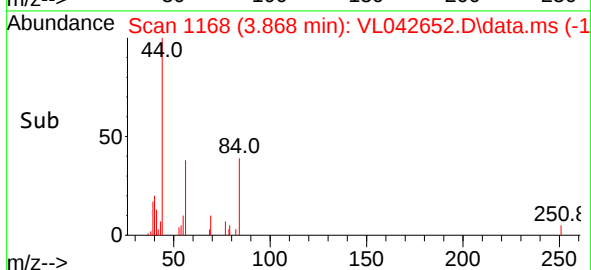
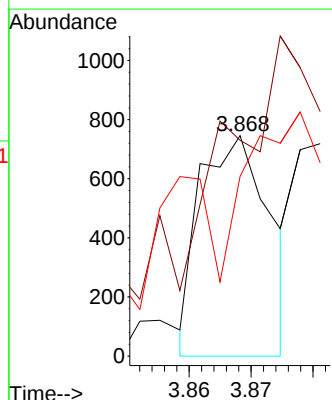
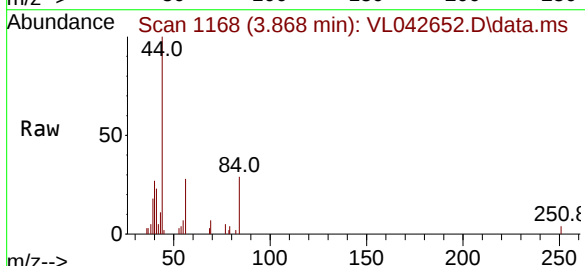
Tgt Ion: 84 Resp: 582

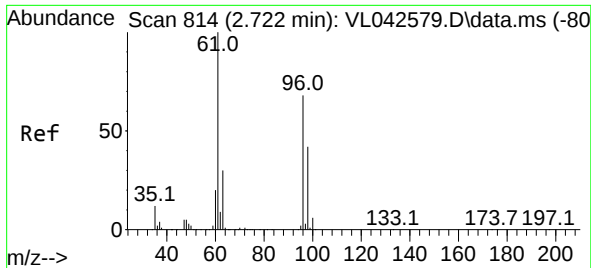
Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

41 0.0 65.1 97.7#

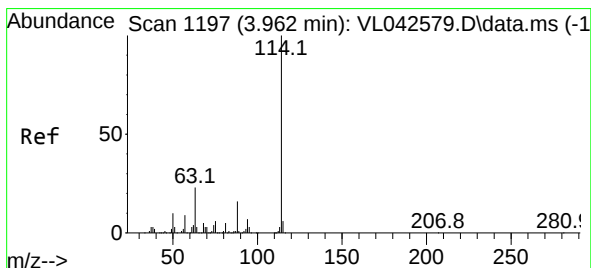
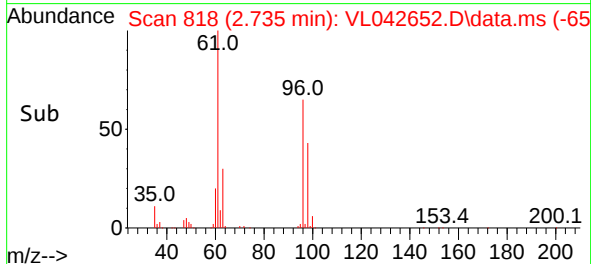
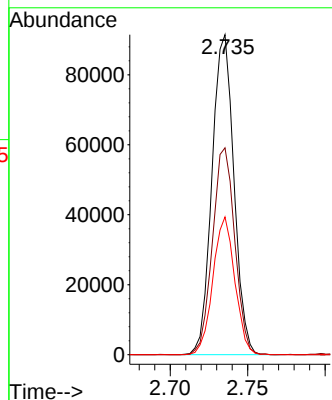
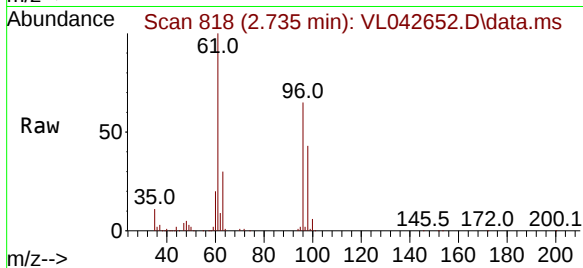




#31
 cis-1,2-Dichloroethene
 Concen: 5.663 ppbv
 RT: 2.735 min Scan# 814
 Delta R.T. 0.013 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

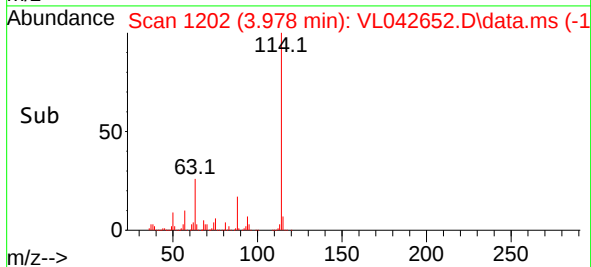
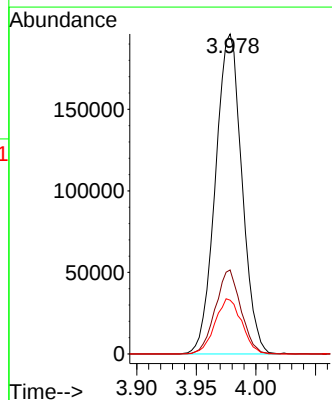
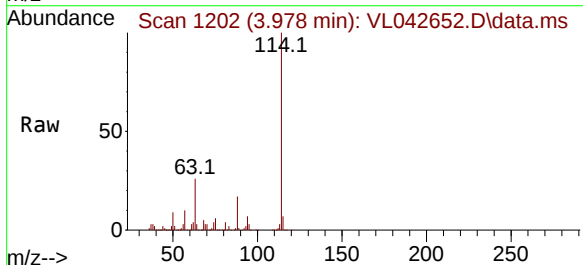
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

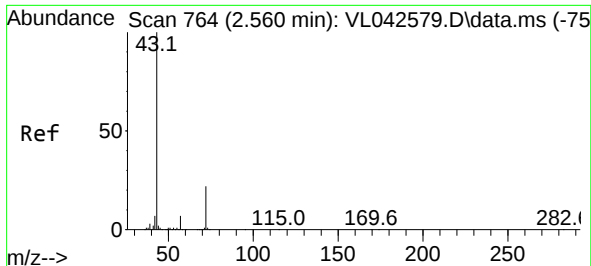
Tgt Ion: 61	Resp: 90052
Ion Ratio	Lower Upper
61 100	
96 64.6	54.5 81.7
98 43.1	33.4 50.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.978 min Scan# 1202
 Delta R.T. 0.016 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion:114	Resp: 302999
Ion Ratio	Lower Upper
114 100	
63 25.3	19.0 28.6
88 17.4	13.6 20.4

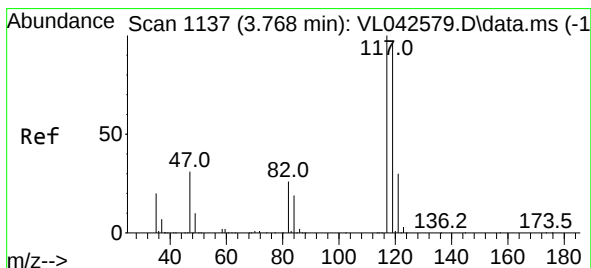
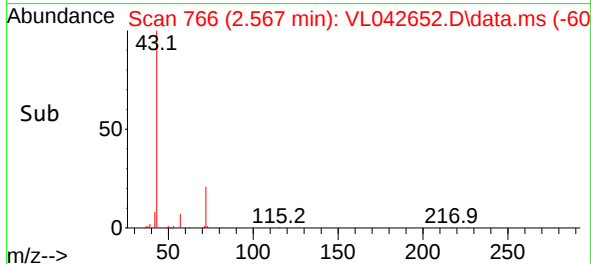
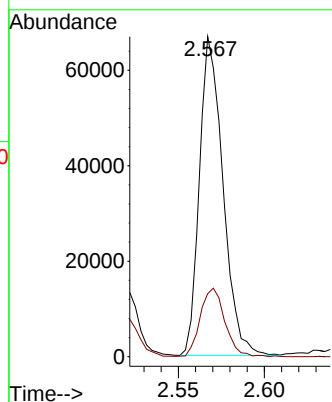
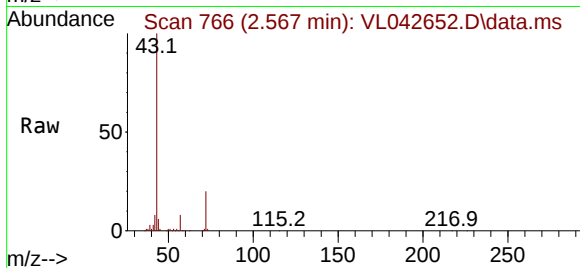




#34
2-Butanone
Concen: 2.943 ppbv
RT: 2.567 min Scan# 71
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

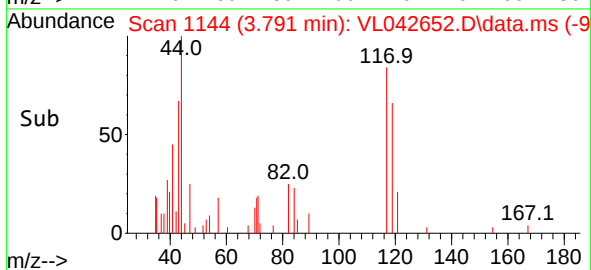
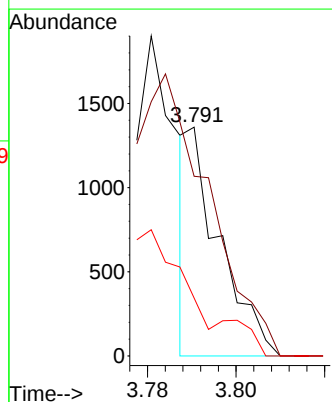
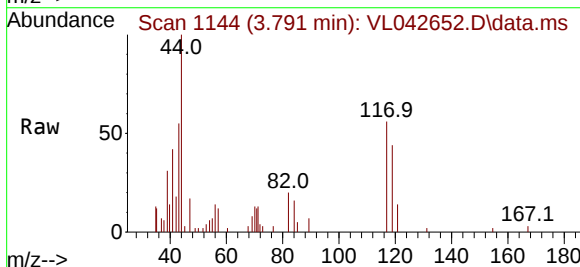
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

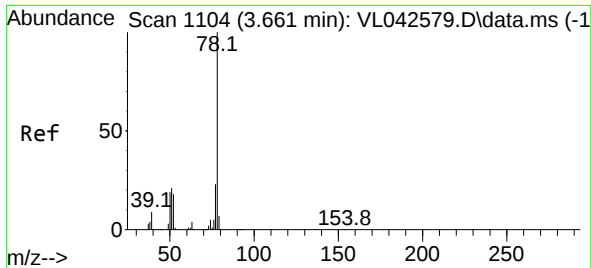
Tgt Ion: 43 Resp: 63602
Ion Ratio Lower Upper
43 100
72 22.5 17.7 26.5



#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 3.791 min Scan# 1144
Delta R.T. 0.023 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 117 Resp: 677
Ion Ratio Lower Upper
117 100
119 78.5 76.8 115.2
121 25.3 24.3 36.5





#36

Benzene

Concen: 0.584 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. 0.013 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

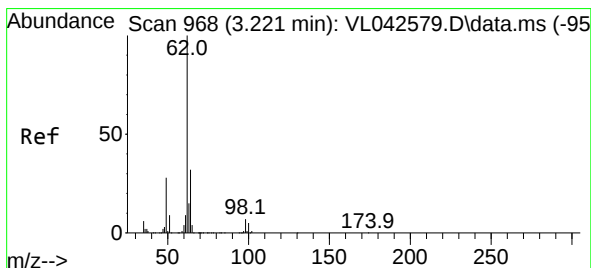
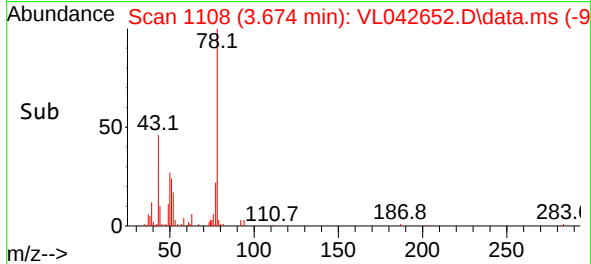
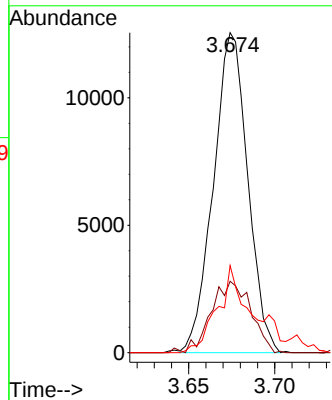
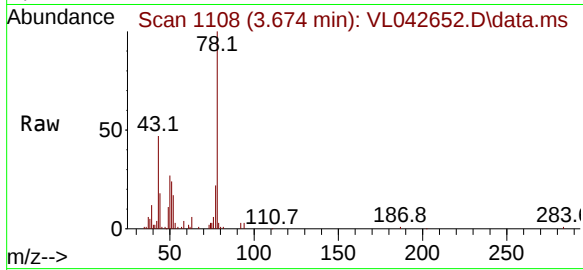
Tgt Ion: 78 Resp: 17420

Ion Ratio Lower Upper

78 100

77 21.9 18.2 27.2

50 27.2 15.2 22.8#



#37

1,2-Dichloroethane

Concen: 0.040 ppbv

RT: 3.234 min Scan# 972

Delta R.T. 0.013 min

Lab File: VL042652.D

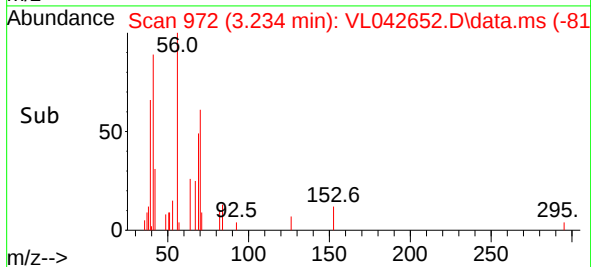
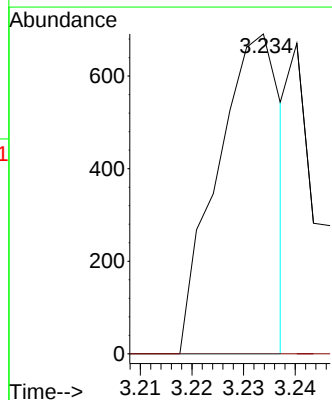
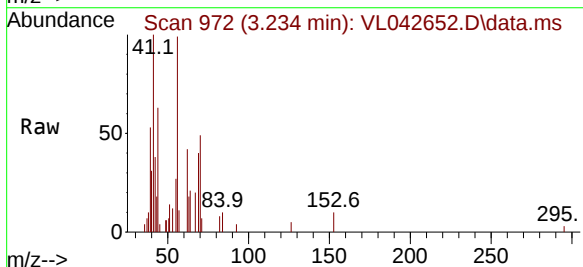
Acq: 19 Jun 2025 12:34

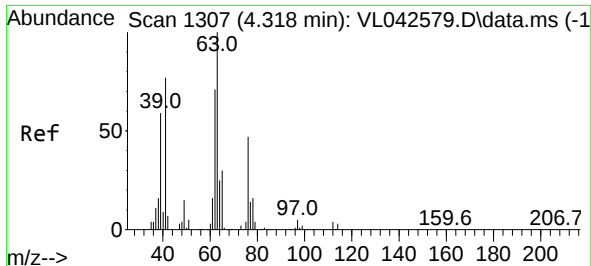
Tgt Ion: 62 Resp: 589

Ion Ratio Lower Upper

62 100

98 0.0 6.1 9.1#





#39

1,2-Dichloropropane

Concen: 6.933 ppbv

RT: 3.978 min Scan# 1

Delta R.T. -0.340 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

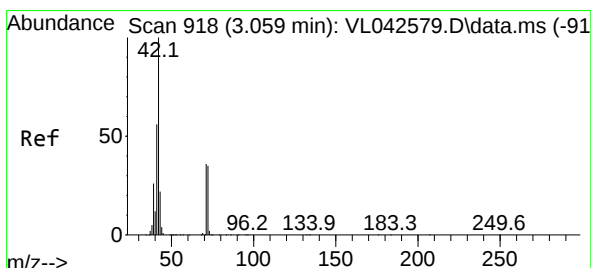
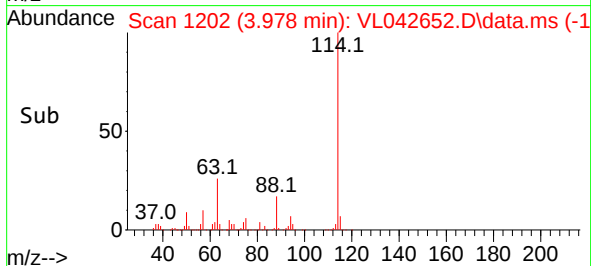
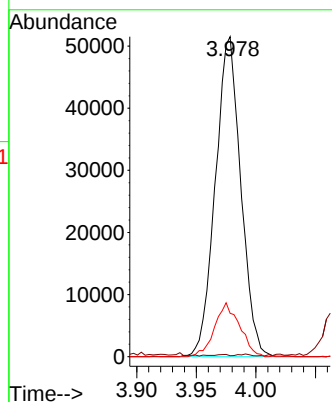
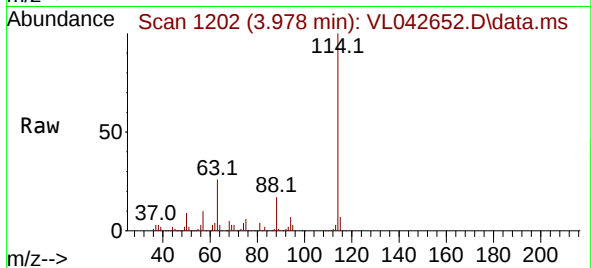
Tgt Ion: 63 Resp: 76495

Ion Ratio Lower Upper

63 100

41 0.0 61.8 92.6#

62 13.5 56.6 85.0#



#41

Tetrahydrofuran

Concen: 15.454 ppbv

RT: 3.066 min Scan# 920

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

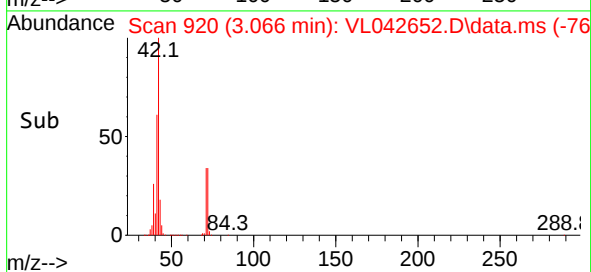
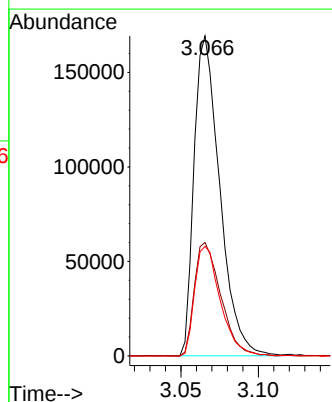
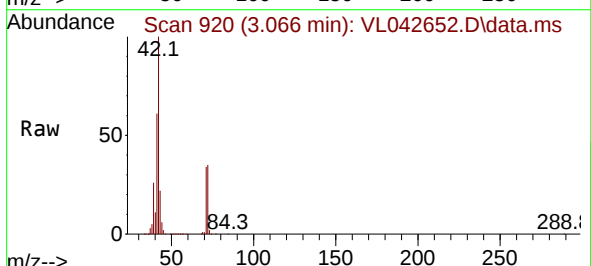
Tgt Ion: 42 Resp: 195475

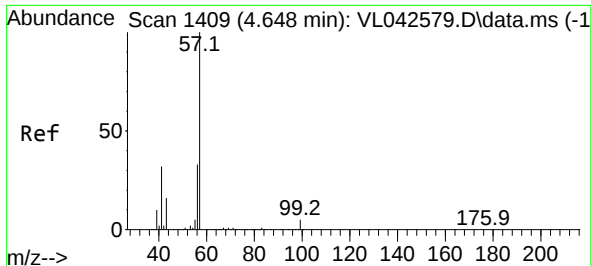
Ion Ratio Lower Upper

42 100

72 36.5 28.9 43.3

71 34.3 28.5 42.7

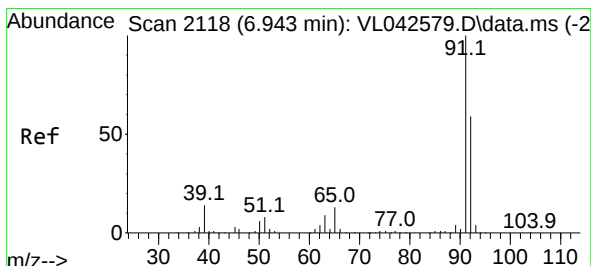
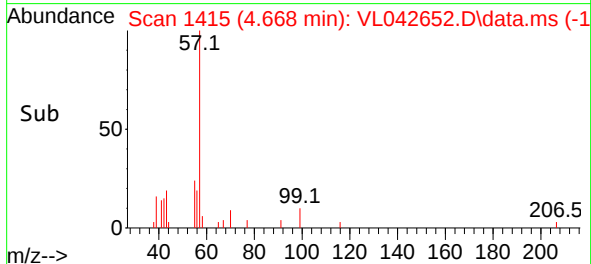
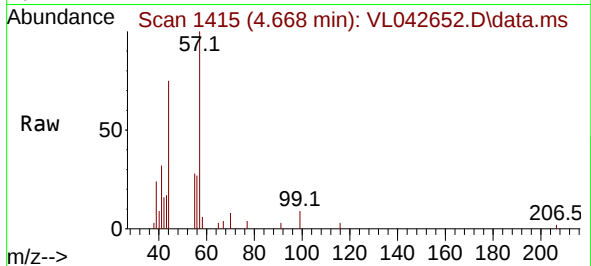




#44
 2,2,4-Trimethylpentane
 Concen: 0.037 ppbv
 RT: 4.668 min Scan# 1409
 Delta R.T. 0.020 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

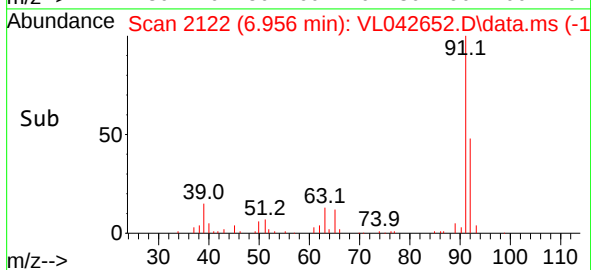
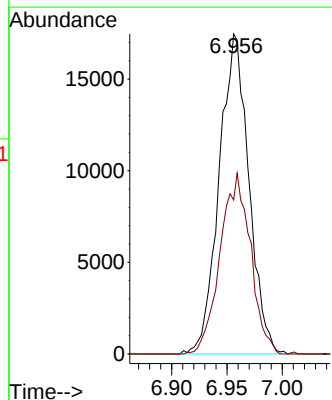
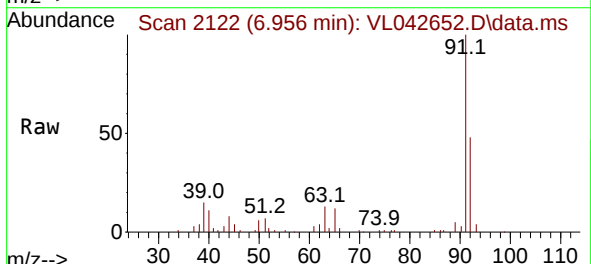
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-1DUP

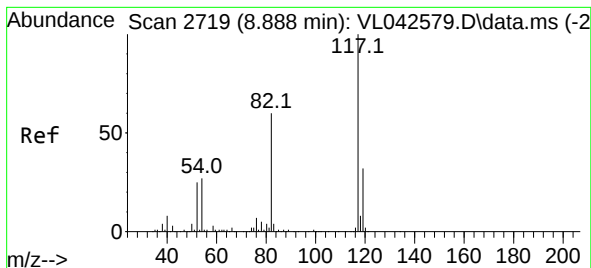
Tgt Ion: 57 Resp: 1899
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.1 39.1#
 56 0.0 25.9 38.9#



#53
 Toluene
 Concen: 0.943 ppbv
 RT: 6.956 min Scan# 2122
 Delta R.T. 0.013 min
 Lab File: VL042652.D
 Acq: 19 Jun 2025 12:34

Tgt Ion: 91 Resp: 32537
 Ion Ratio Lower Upper
 91 100
 92 57.8 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.898 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_1

ClientSampleId :

SS-1DUP

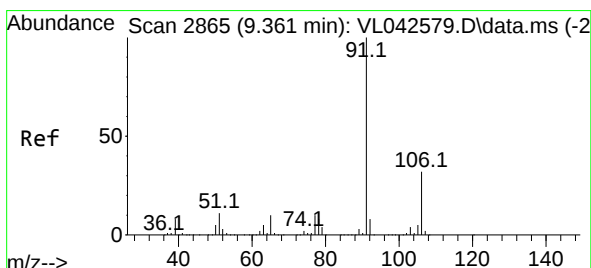
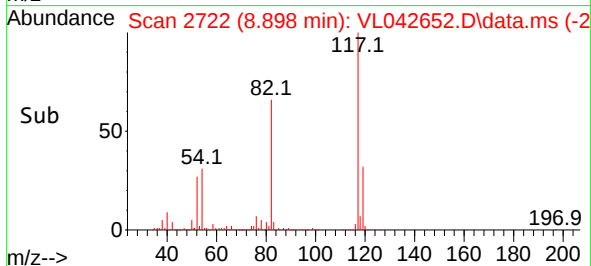
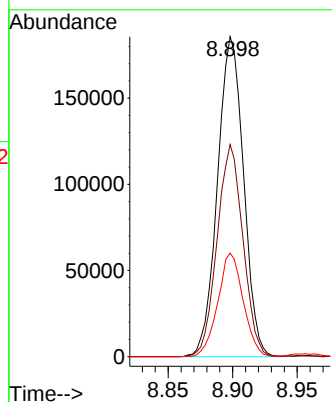
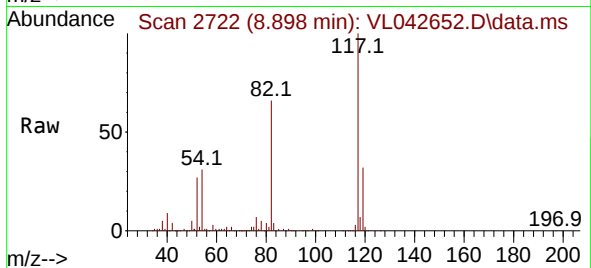
Tgt Ion:117 Resp: 260992

Ion Ratio Lower Upper

117 100

82 66.1 51.2 76.8

119 31.5 26.3 39.5



#58

Ethyl Benzene

Concen: 0.255 ppbv

RT: 9.374 min Scan# 2869

Delta R.T. 0.013 min

Lab File: VL042652.D

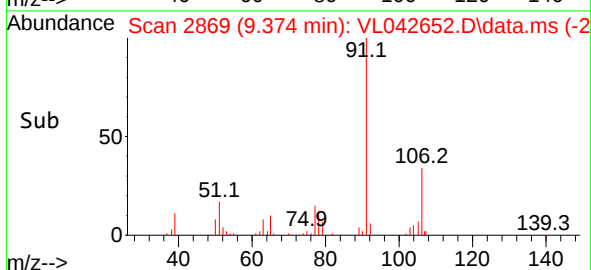
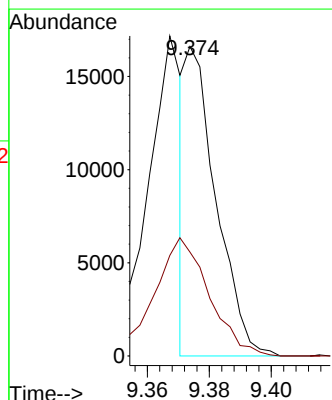
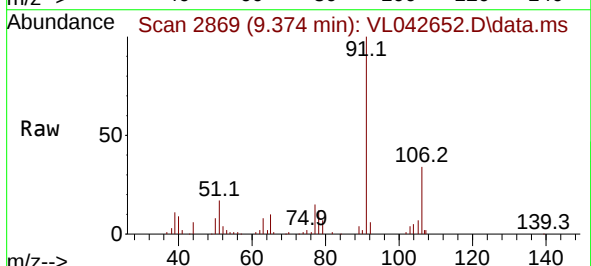
Acq: 19 Jun 2025 12:34

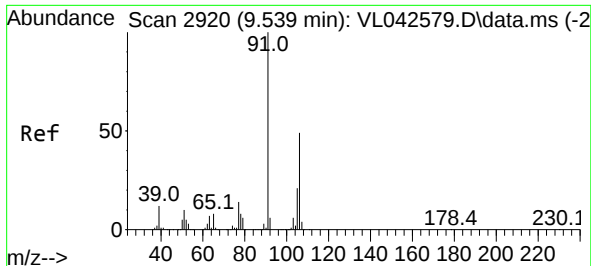
Tgt Ion: 91 Resp: 11268

Ion Ratio Lower Upper

91 100

106 33.6 25.9 38.9





#59

m/p-Xylene

Concen: 3.054 ppbv

RT: 9.545 min Scan# 2920

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

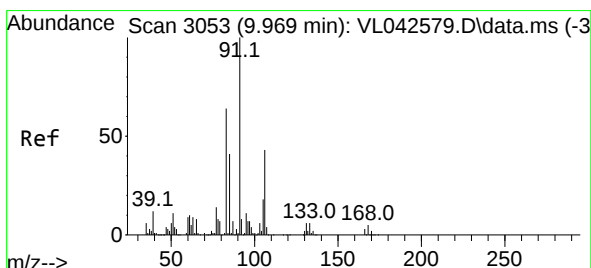
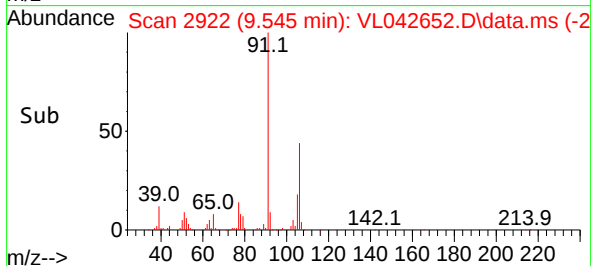
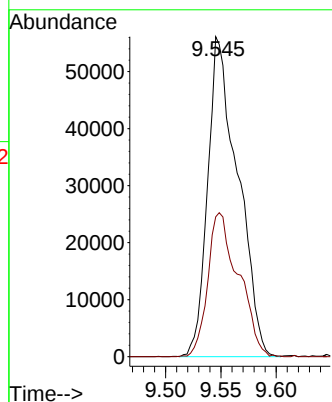
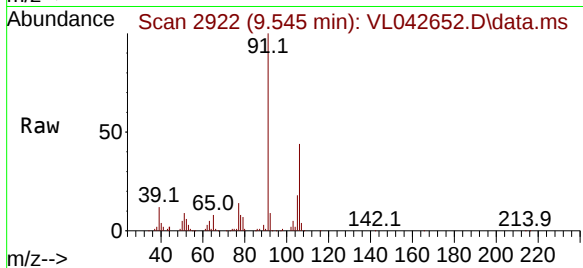
SS-1DUP

Tgt Ion: 91 Resp: 106408

Ion Ratio Lower Upper

91 100

106 45.9 38.8 58.2



#60

o-Xylene

Concen: 0.865 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.010 min

Lab File: VL042652.D

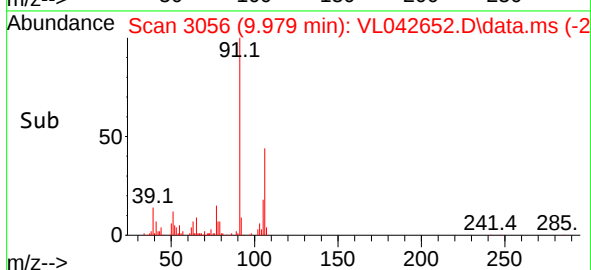
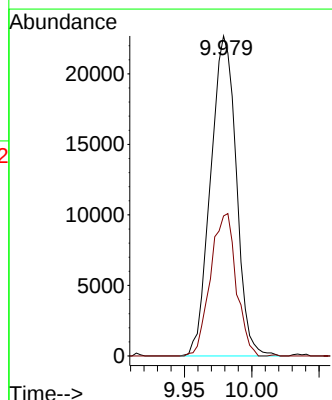
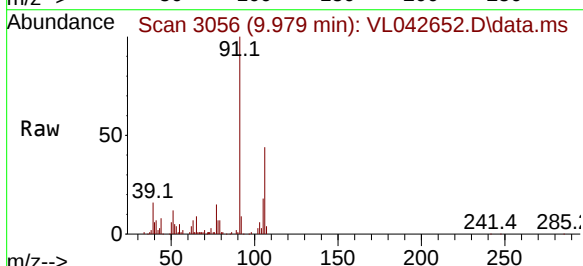
Acq: 19 Jun 2025 12:34

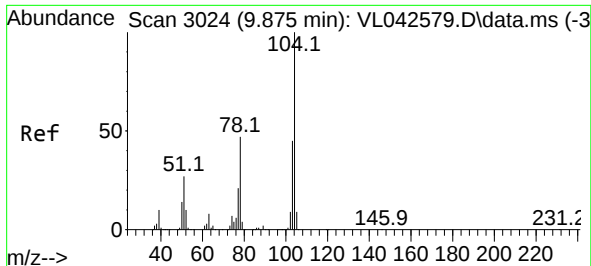
Tgt Ion: 91 Resp: 30069

Ion Ratio Lower Upper

91 100

106 44.7 22.9 68.5

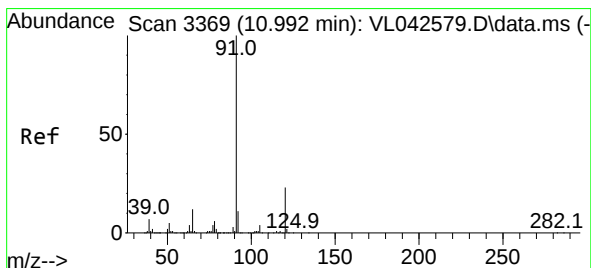
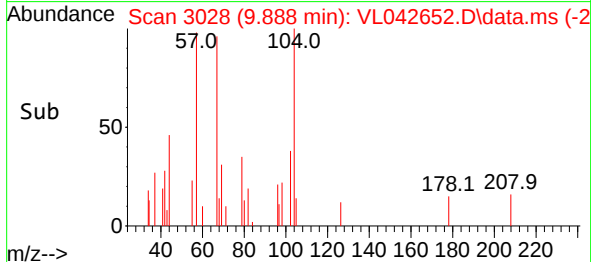
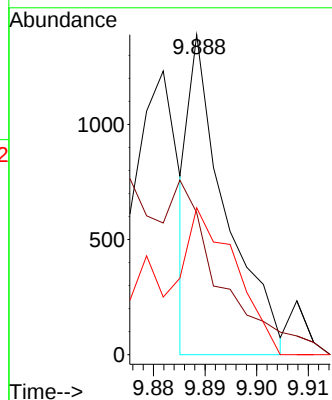
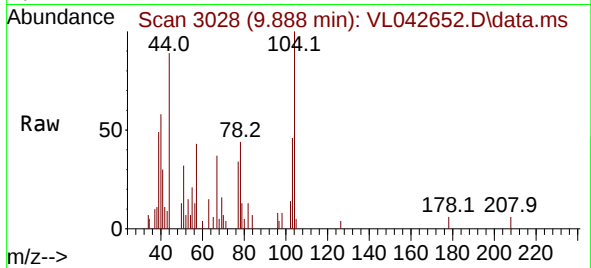




#61
Styrene
Concen: 0.041 ppbv
RT: 9.888 min Scan# 3024
Delta R.T. 0.013 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

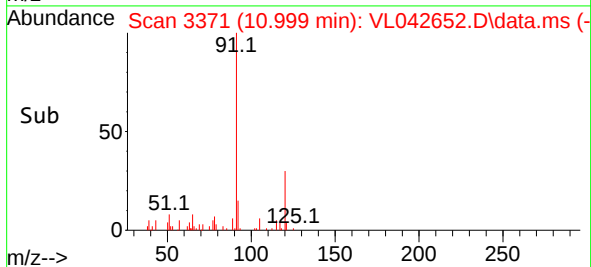
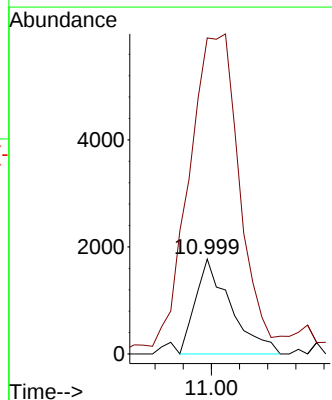
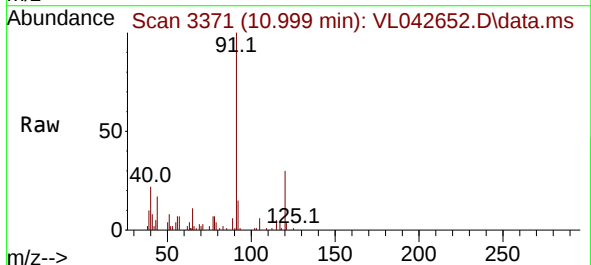
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

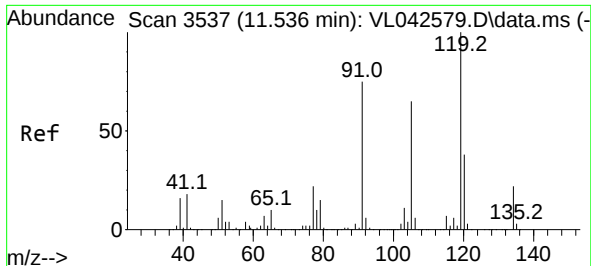
Tgt Ion:104 Resp: 679
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 100.1 36.7 55.1#



#64
n-propylbenzene
Concen: 0.112 ppbv
RT: 10.999 min Scan# 3371
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion:120 Resp: 1547
Ion Ratio Lower Upper
120 100
91 511.4 363.0 544.6

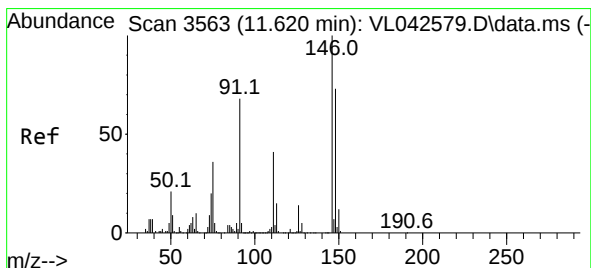
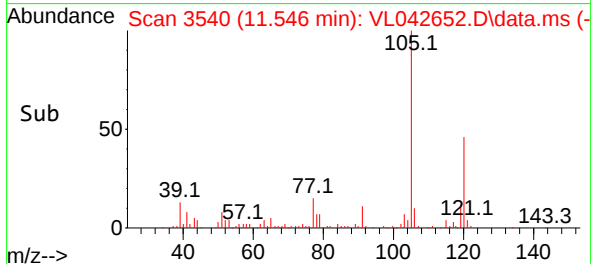
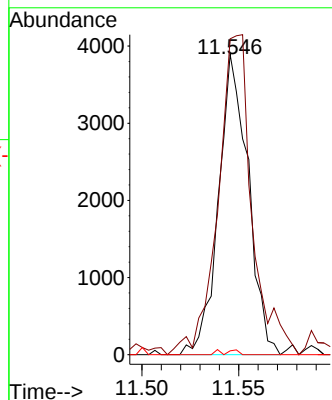
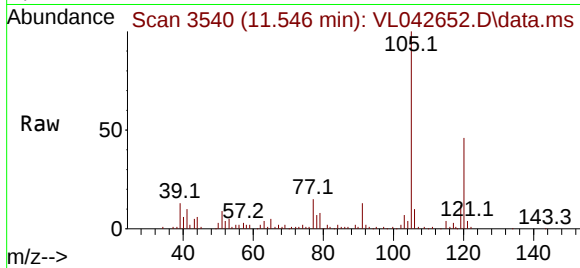




#65
tert-Butylbenzene
Concen: 0.089 ppbv
RT: 11.546 min Scan# 3540
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

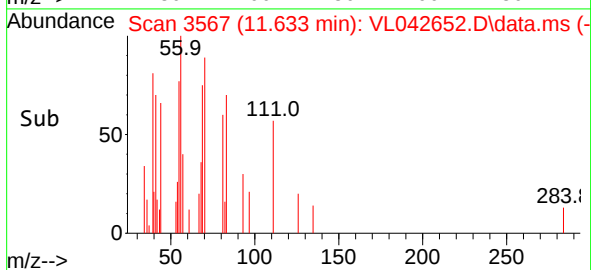
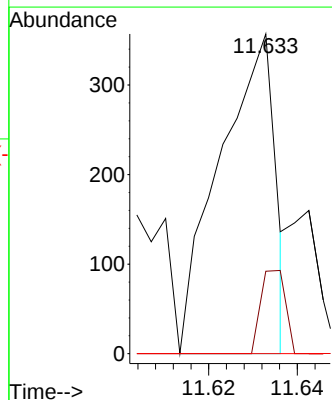
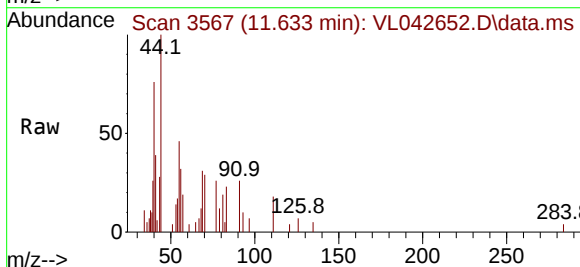
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

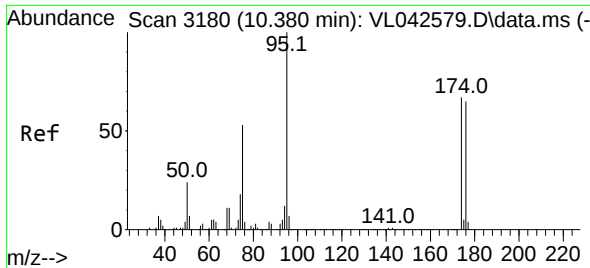
Tgt Ion:119 Resp: 4144
Ion Ratio Lower Upper
119 100
91 125.6 61.1 91.7#
134 0.0 17.4 26.2#



#66
Benzyl Chloride
Concen: 0.052 ppbv
RT: 11.633 min Scan# 3567
Delta R.T. 0.013 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 91 Resp: 312
Ion Ratio Lower Upper
91 100
126 0.0 15.1 22.7#
128 0.0 5.0 7.6#

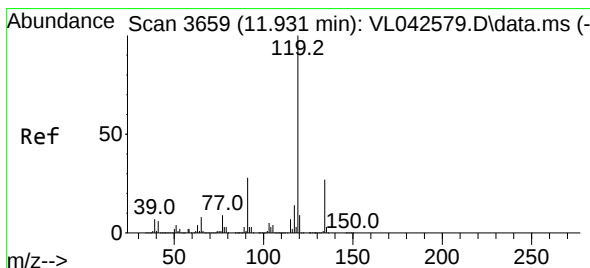
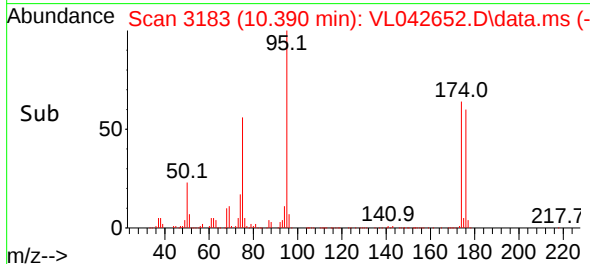
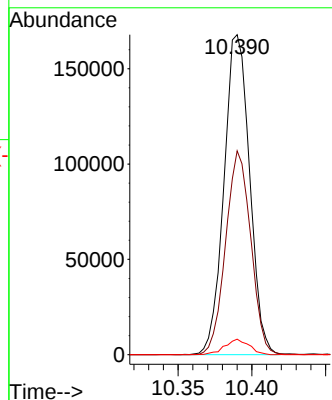
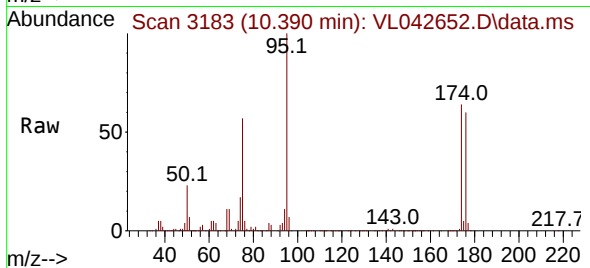




#68
1-Bromo-4-Fluorobenzene
Concen: 10.383 ppbv
RT: 10.390 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

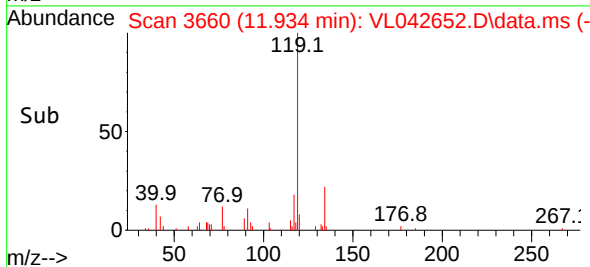
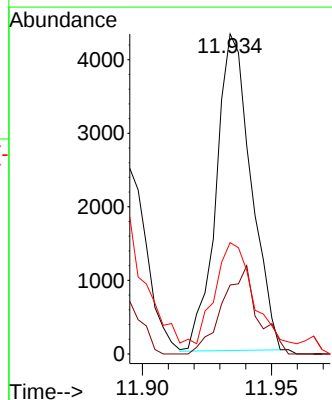
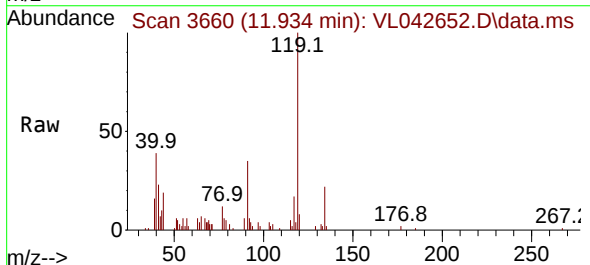
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

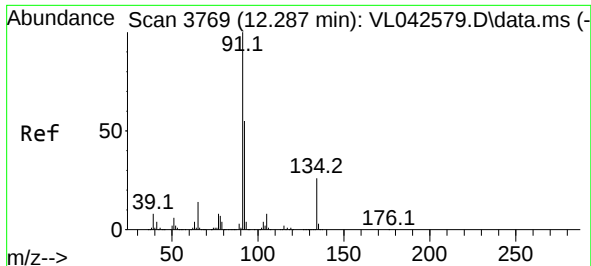
Tgt Ion: 95 Resp: 203142
Ion Ratio Lower Upper
95 100
174 62.3 53.1 79.7
175 4.6 4.2 6.2



#69
p-Isopropyltoluene
Concen: 0.074 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 119 Resp: 4057
Ion Ratio Lower Upper
119 100
134 27.9 21.1 31.7
91 44.3 21.9 32.9#

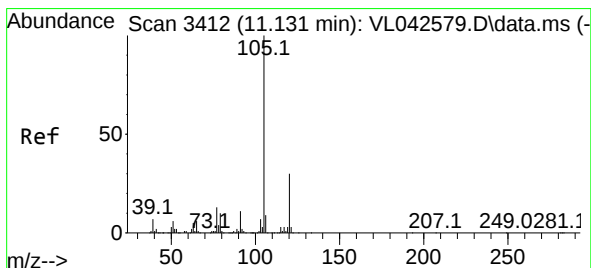
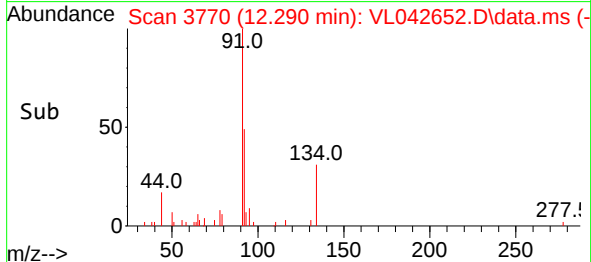
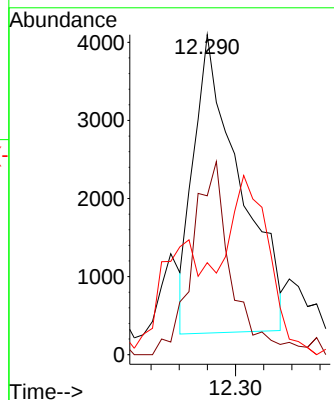
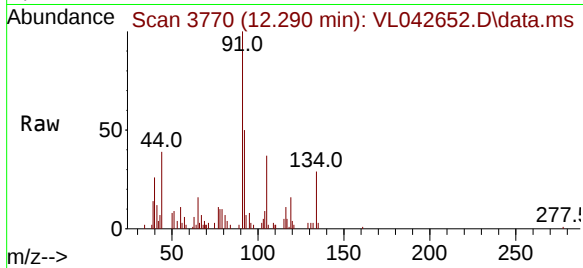




#70
n-Butylbenzene
Concen: 0.080 ppbv
RT: 12.290 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

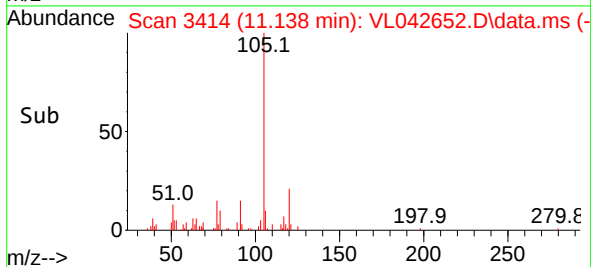
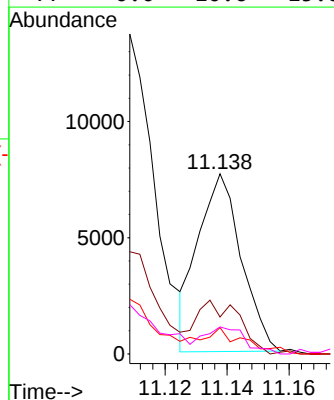
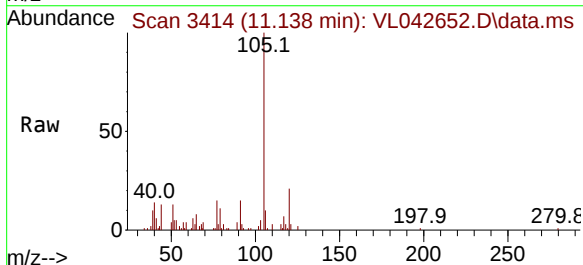
Instrument :
MSVOA_L
ClientSampleId :
SS-1DUP

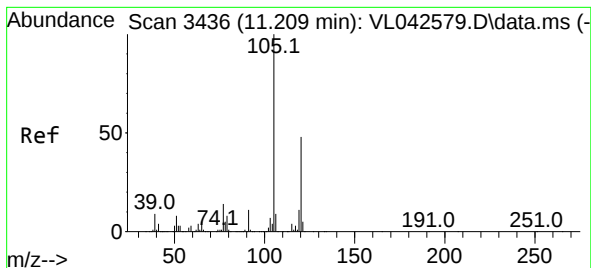
Tgt Ion: 91 Resp: 4324
Ion Ratio Lower Upper
91 100
92 56.5 44.4 66.6
134 95.2 20.1 30.1#



#72
4-Ethyltoluene
Concen: 0.171 ppbv
RT: 11.138 min Scan# 3414
Delta R.T. 0.007 min
Lab File: VL042652.D
Acq: 19 Jun 2025 12:34

Tgt Ion: 105 Resp: 7407
Ion Ratio Lower Upper
105 100
120 0.0 24.6 36.8#
91 0.0 9.6 14.4#
77 0.0 10.6 15.8#





#73

1,3,5-Trimethylbenzene

Concen: 0.193 ppbv

RT: 11.215 min Scan# 3436

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

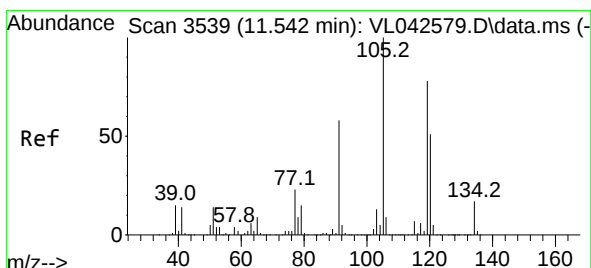
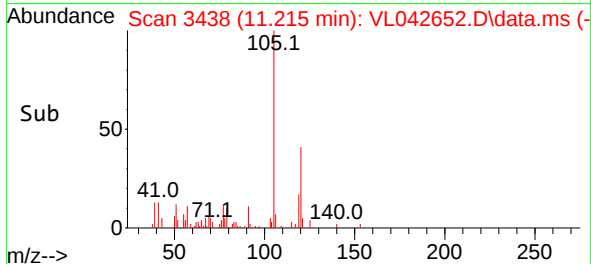
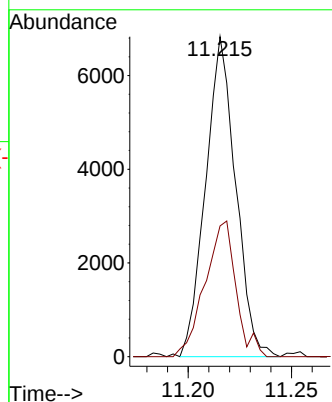
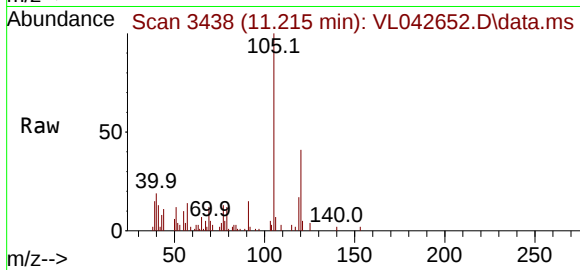
SS-1DUP

Tgt Ion:105 Resp: 6906

Ion Ratio Lower Upper

105 100

120 40.9 38.8 58.2



#74

1,2,4-Trimethylbenzene

Concen: 0.898 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Tgt Ion:105 Resp: 35737

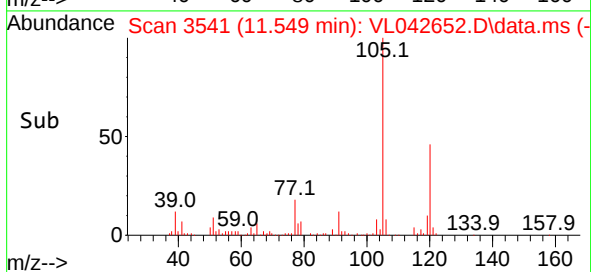
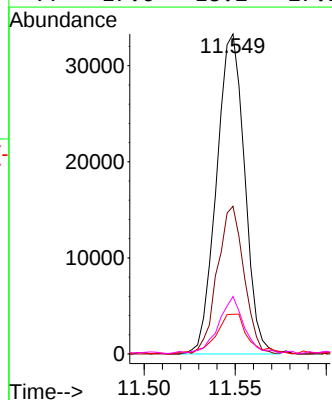
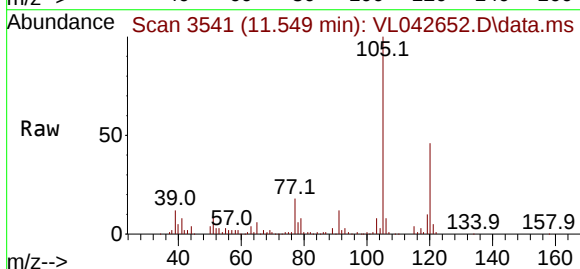
Ion Ratio Lower Upper

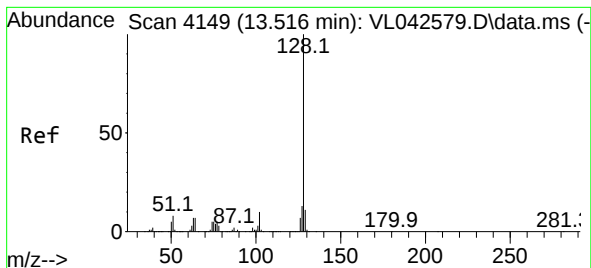
105 100

120 46.2 40.8 61.2

91 11.9 46.8 70.2#

77 17.6 18.2 27.2#





#79

Naphthalene

Concen: 0.507 ppbv

RT: 13.523 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Instrument :

MSVOA_L

ClientSampleId :

SS-1DUP

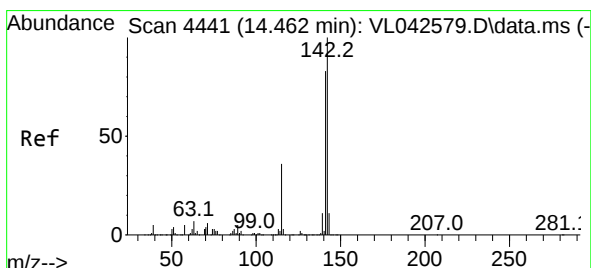
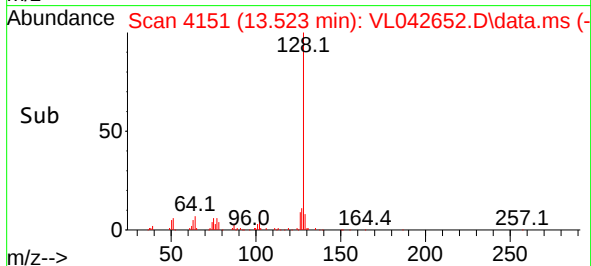
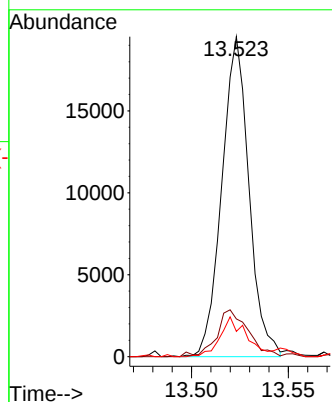
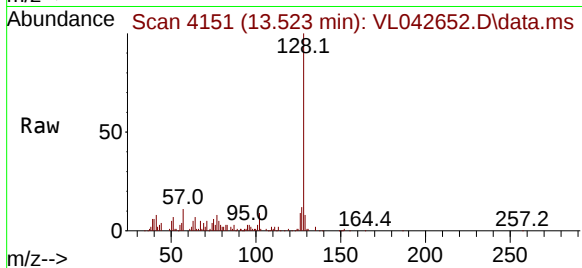
Tgt Ion:128 Resp: 19001

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.4

129 7.9 8.8 13.2#



#80

Naphthalene,2-methyl-

Concen: 0.527 ppbv

RT: 14.598 min Scan# 4483

Delta R.T. 0.136 min

Lab File: VL042652.D

Acq: 19 Jun 2025 12:34

Tgt Ion:142 Resp: 8925

Ion Ratio Lower Upper

142 100

141 86.7 66.2 99.4

115 41.3 28.3 42.5

