

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
 Data File : VL042800.D
 Acq On : 04 Aug 2025 12:23
 Operator : SY/MD
 Sample : Q2750-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 01:02:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	171645	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	484996	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	419893	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	351197	10.561	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	12466	0.549	ppbv	99
3) Chlorodifluoromethane	1.473	51	1678405	56.774	ppbv #	79
4) Chloromethane	1.531	50	70791	7.710	ppbv	99
5) Vinyl Chloride	1.486	62	995	0.110	ppbv #	69
6) Bromomethane	1.664	94	290	0.083	ppbv #	39
7) Chloroethane	1.703	64	427	0.122	ppbv	94
8) Dichlorotetrafluoroethane	1.496	85	12466	0.668	ppbv #	21
9) Propene	1.557	41	568807	52.939	ppbv	97
10) Heptane	4.975	43	1300	0.045	ppbv #	1
11) Trichlorofluoromethane	1.874	101	4766	0.204	ppbv	89
12) 1,1,2-Trichlorotrifluo...	2.133	101	1280	0.072	ppbv	83
13) Ethanol	1.726	45	4743135	6061.609	ppbv	93
15) Acetone	1.832	43	2271716	95.847	ppbv #	77
16) 1,3-Butadiene	1.557	39	277218	27.421	ppbv #	16
17) tert-Butyl alcohol	1.991	59	8717102	407.793	ppbv	97
19) Isopropyl Alcohol	1.971	45	22213534	1763.643	ppbv #	38
20) Methylene Chloride	2.062	84	16776	2.246	ppbv	87
21) Allyl Chloride	1.991	41	13684692	936.822	ppbv #	78
23) Vinyl Acetate	2.460	43	57901	2.015	ppbv #	93
24) 1,1-Dichloroethane	2.787	63	948	0.053	ppbv #	87
25) Ethyl Acetate	2.842	43	274303	5.229	ppbv #	62
26) Hexane	2.823	57	42707	1.856	ppbv #	1
27) Carbon Disulfide	2.146	76	67073	3.404	ppbv #	65
28) Methyl tert-Butyl Ether	2.438	73	392	0.036	ppbv #	50
29) Chloroform	2.849	83	28648	0.806	ppbv	88
30) Cyclohexane	3.852	84	1252	0.064	ppbv #	1
31) cis-1,2-Dichloroethene	2.839	61	29160	1.233	ppbv #	23
34) 2-Butanone	2.564	43	55250	1.608	ppbv	93
35) Carbon Tetrachloride	3.755	117	2193	0.061	ppbv #	71
36) Benzene	3.651	78	12369	0.269	ppbv	98
37) 1,2-Dichloroethane	3.214	62	562	0.020	ppbv #	81
39) 1,2-Dichloropropane	3.956	63	118364	6.976	ppbv #	21
41) Tetrahydrofuran	3.065	42	5352	0.306	ppbv #	62
42) Bromodichloromethane	4.480	83	1968	0.055	ppbv #	96
43) Methyl Methacrylate	4.872	69	603	0.037	ppbv #	1
44) 2,2,4-Trimethylpentane	4.632	57	1822	0.024	ppbv #	1
53) Toluene	6.927	91	40915	0.829	ppbv	95
58) Ethyl Benzene	9.357	91	1993	0.030	ppbv	93
59) m/p-Xylene	9.529	91	11454	0.216	ppbv #	86
60) o-Xylene	9.529	91	11454	0.216	ppbv	81
61) Styrene	9.869	104	4865	0.218	ppbv	93
66) Benzyl Chloride	11.545	91	10725	1.883	ppbv #	65
67) sec-Butylbenzene	11.850	105	41671	0.422	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080425\
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 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

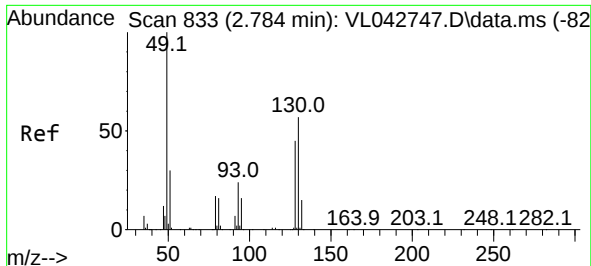
Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 05 01:02:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

69) p-Isopropyltoluene	11.924	119	54508	0.677	ppbv	95
70) n-Butylbenzene	12.345	91	20299	0.261	ppbv #	86
71) 2-Chlorotoluene	10.856	91	81049	1.353	ppbv #	45
73) 1,3,5-Trimethylbenzene	11.202	105	1173	0.023	ppbv #	68
74) 1,2,4-Trimethylbenzene	11.536	105	8507	0.150	ppbv #	75
76) 1,4-Dichlorobenzene	11.668	146	1965	0.050	ppbv #	62
79) Naphthalene	13.513	128	2980	0.481	ppbv #	93
80) Naphthalene,2-methyl-	14.468	142	600	1.146	ppbv #	93
81) 1,2,4-Trichlorobenzene	13.442	180	294	0.443	ppbv #	1

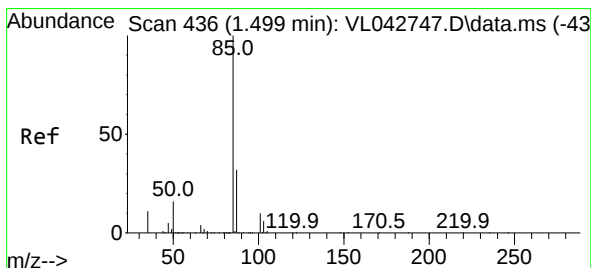
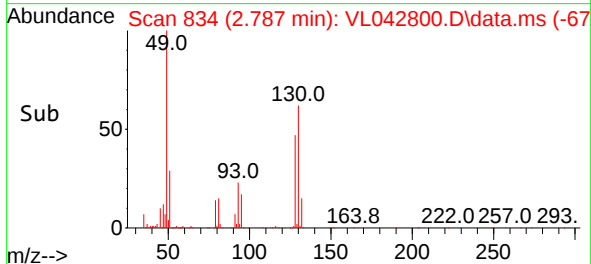
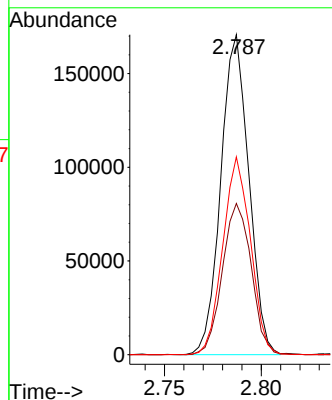
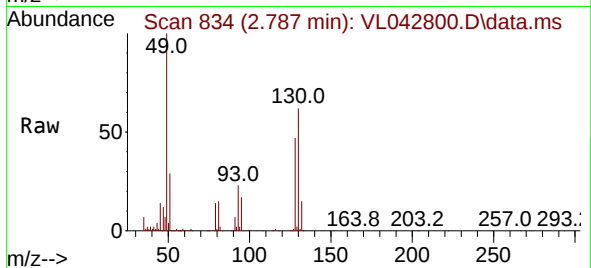
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

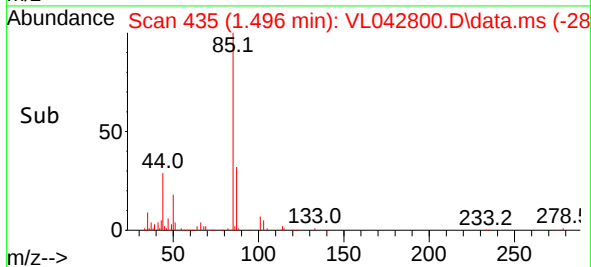
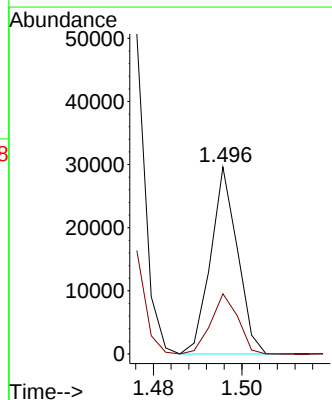
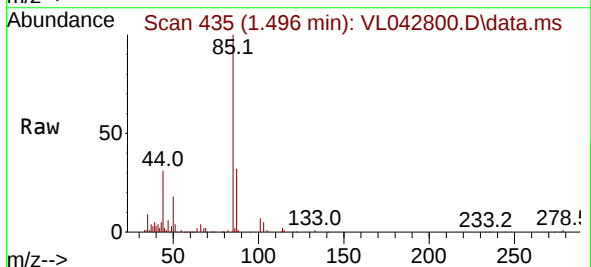
Instrument :
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 ClientSampleId :

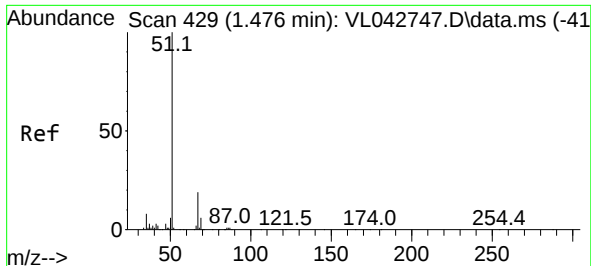
Tgt Ion: 49 Resp: 171645
 Ion Ratio Lower Upper
 49 100
 128 48.8 23.6 71.0
 130 61.1 30.3 90.8



#2
 Dichlorodifluoromethane
 Concen: 0.549 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.003 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

Tgt Ion: 85 Resp: 12466
 Ion Ratio Lower Upper
 85 100
 87 32.2 25.4 38.2

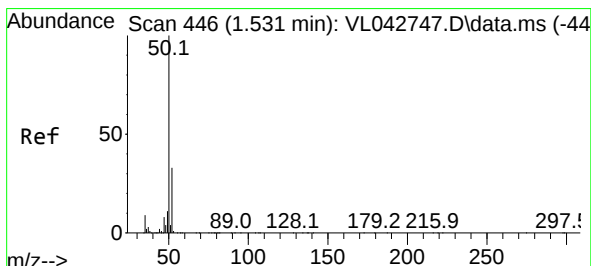
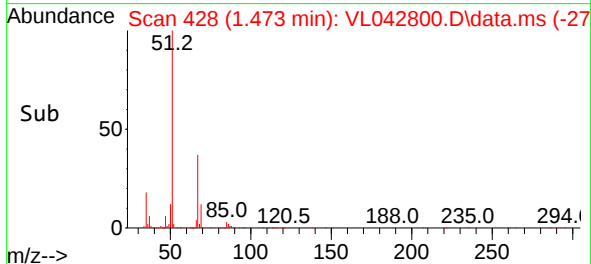
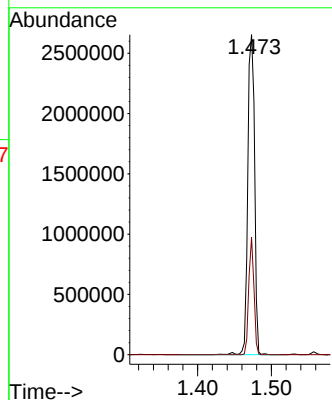
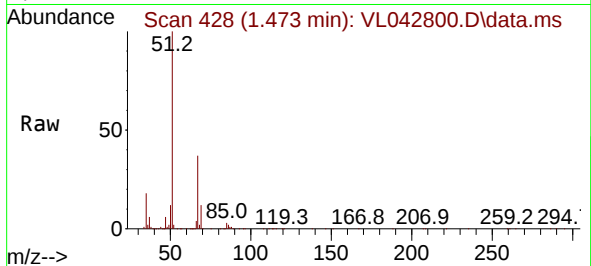




#3
Chlorodifluoromethane
Concen: 56.774 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

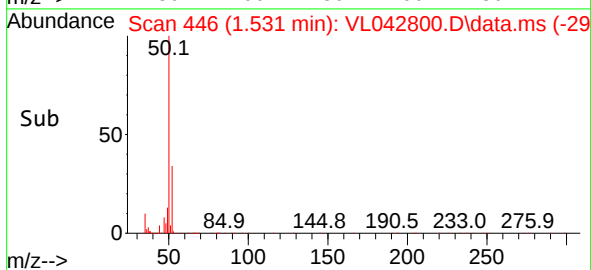
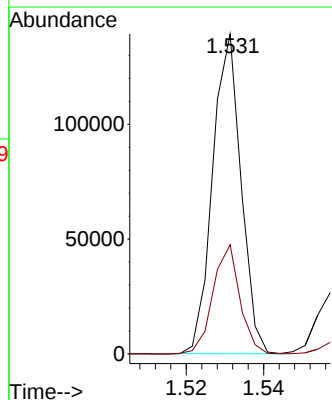
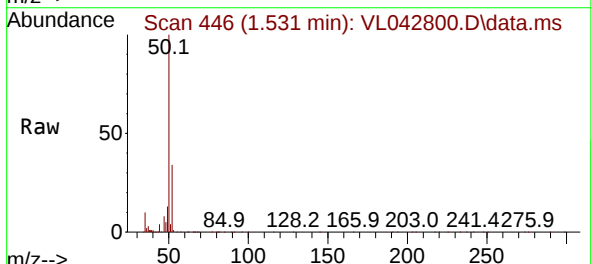
Instrument :
MSVOA_L
ClientSampleId :

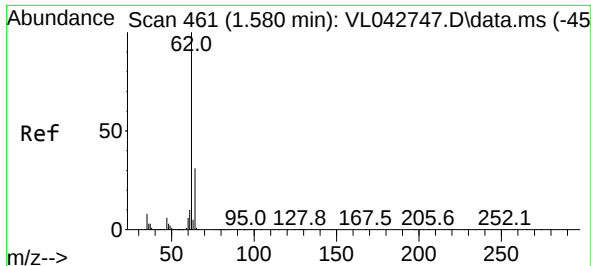
Tgt Ion: 51 Resp: 1678405
Ion Ratio Lower Upper
51 100
67 28.1 15.0 22.6#



#4
Chloromethane
Concen: 7.710 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 50 Resp: 70791
Ion Ratio Lower Upper
50 100
52 34.1 26.6 40.0

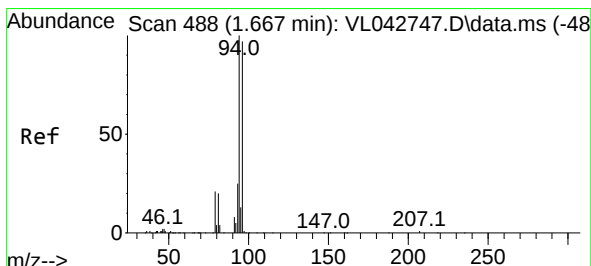
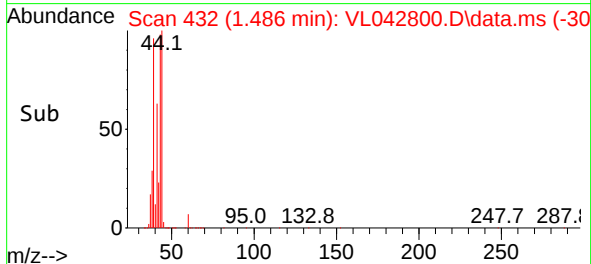
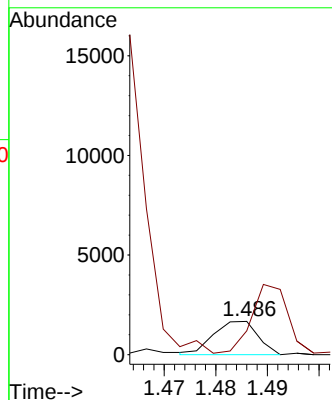
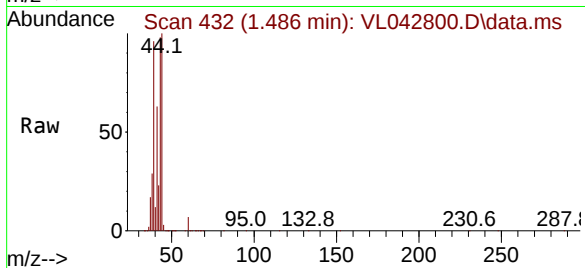




#5
 Vinyl Chloride
 Concen: 0.110 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. -0.094 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

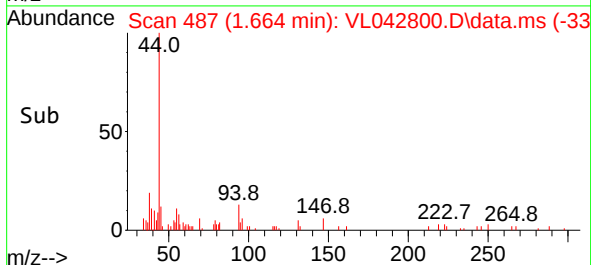
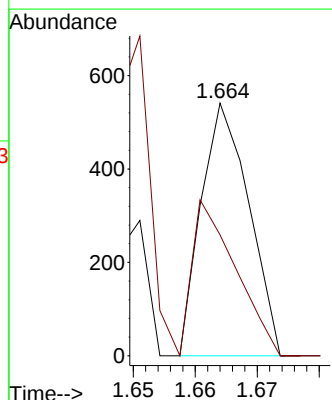
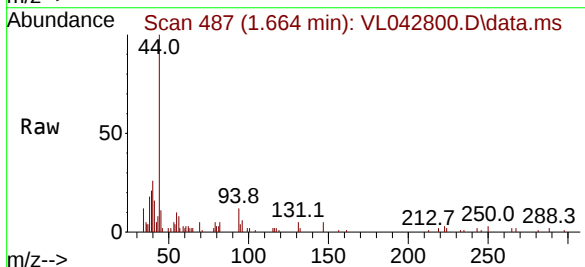
Instrument :
 MSVOA_L
 ClientSampleId :

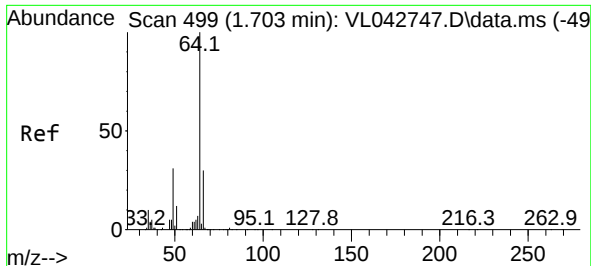
Tgt Ion: 62 Resp: 995
 Ion Ratio Lower Upper
 62 100
 64 47.7 24.5 36.7#



#6
 Bromomethane
 Concen: 0.083 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

Tgt Ion: 94 Resp: 290
 Ion Ratio Lower Upper
 94 100
 96 36.7 77.6 116.4#

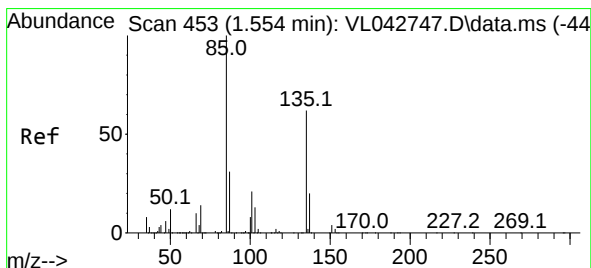
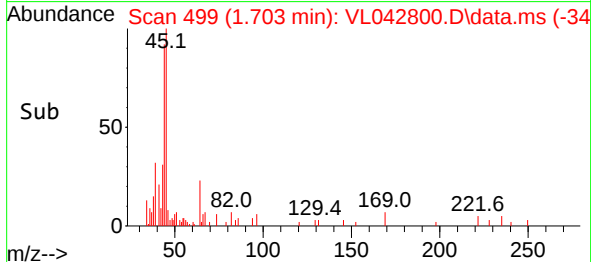
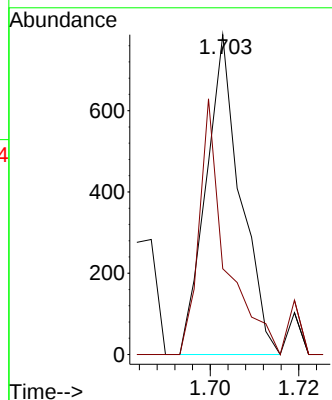
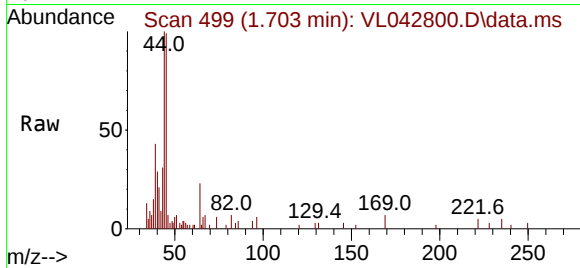




#7
Chloroethane
Concen: 0.122 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

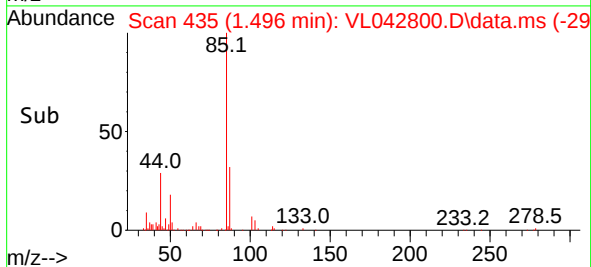
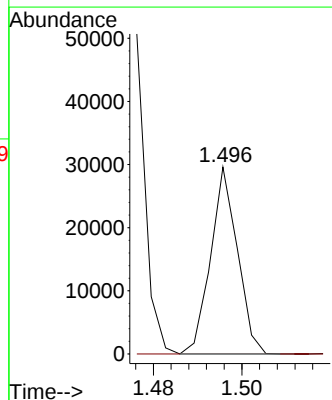
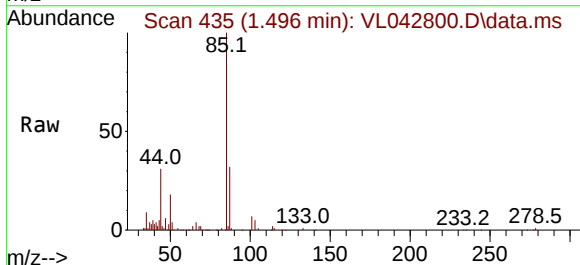
Instrument :
MSVOA_L
ClientSampleId :

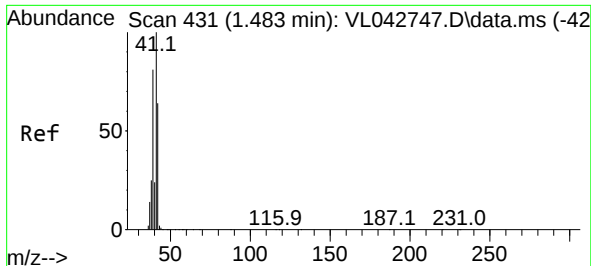
Tgt Ion: 64 Resp: 427
Ion Ratio Lower Upper
64 100
66 26.8 24.1 36.1



#8
Dichlorotetrafluoroethane
Concen: 0.668 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.058 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 85 Resp: 12466
Ion Ratio Lower Upper
85 100
135 1.7 50.6 76.0#





#9

Propene

Concen: 52.939 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

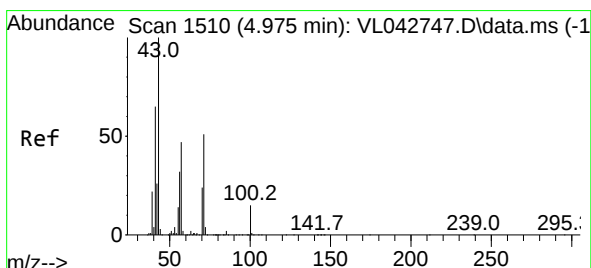
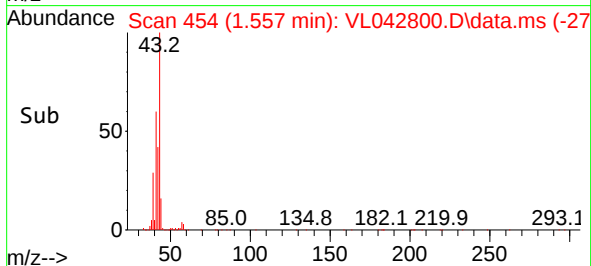
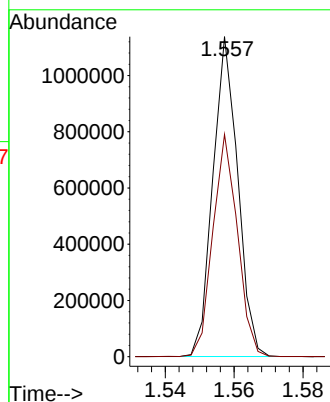
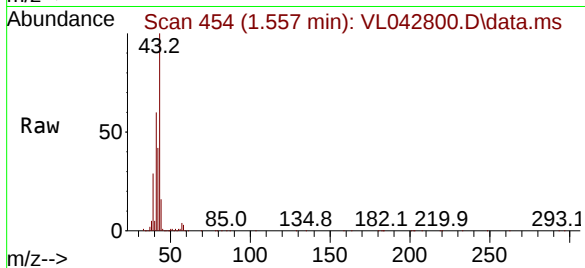
ClientSampleId :

Tgt Ion: 41 Resp: 568807

Ion Ratio Lower Upper

41 100

42 69.0 53.2 79.8



#10

Heptane

Concen: 0.045 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VL042800.D

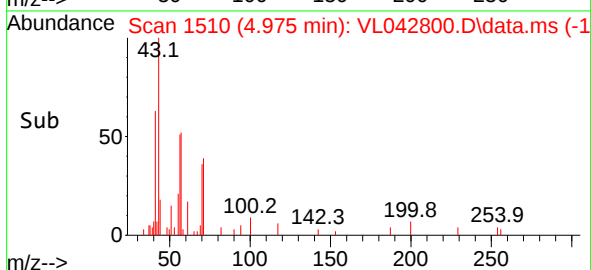
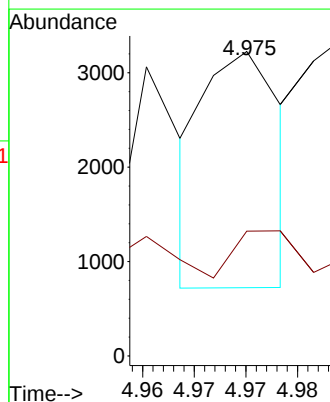
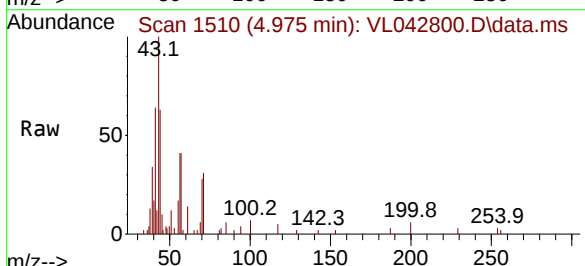
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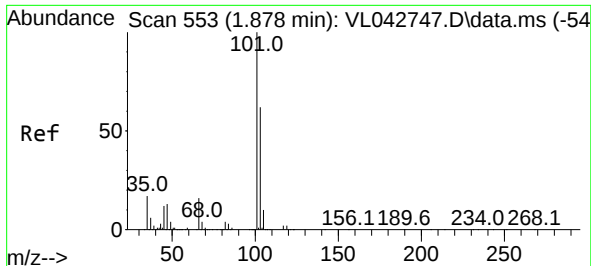
Tgt Ion: 43 Resp: 1300

Ion Ratio Lower Upper

43 100

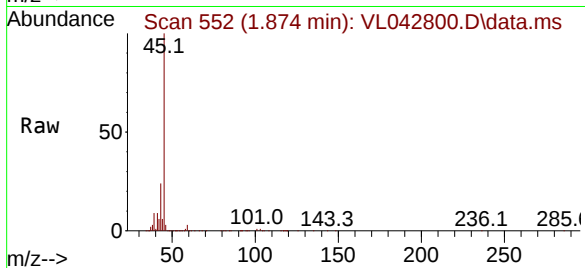
57 219.5 39.9 59.9#



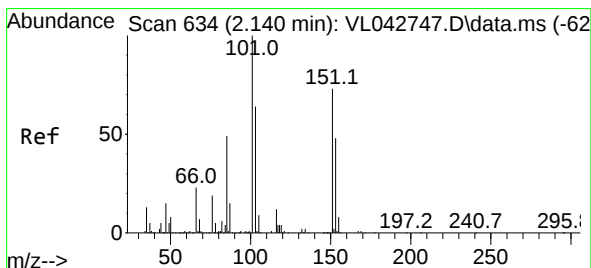
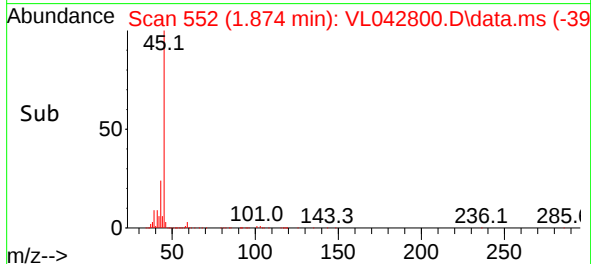
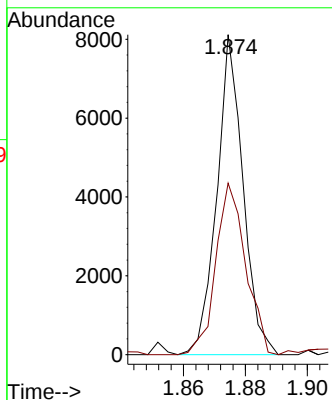


#11
 Trichlorofluoromethane
 Concen: 0.204 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

Instrument :
 MSVOA_L
 ClientSampleId :

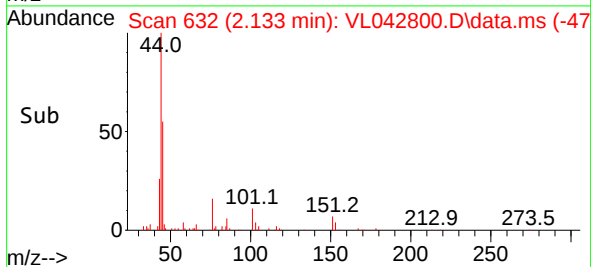
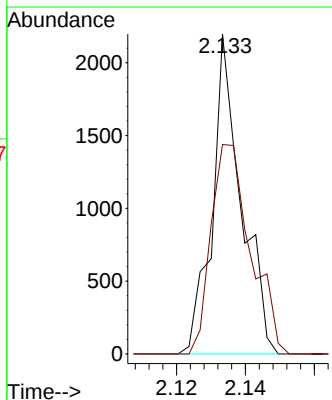
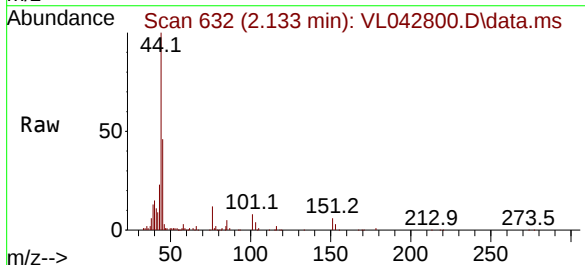


Tgt Ion:101 Resp: 4766
 Ion Ratio Lower Upper
 101 100
 103 53.6 49.6 74.4



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.072 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. -0.006 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

Tgt Ion:101 Resp: 1280
 Ion Ratio Lower Upper
 101 100
 151 89.9 60.5 90.7

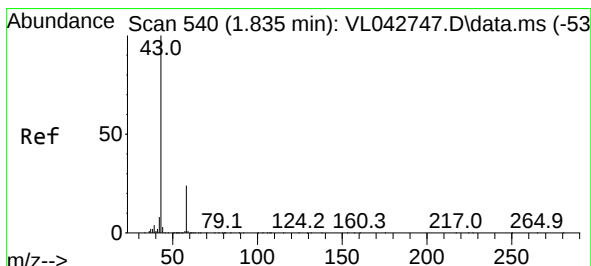
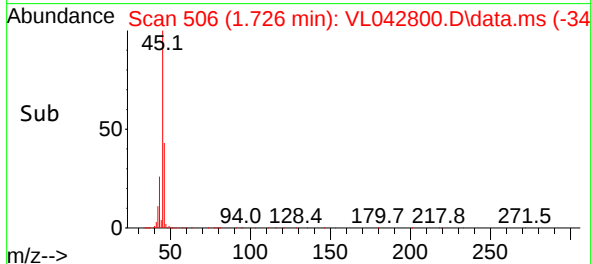
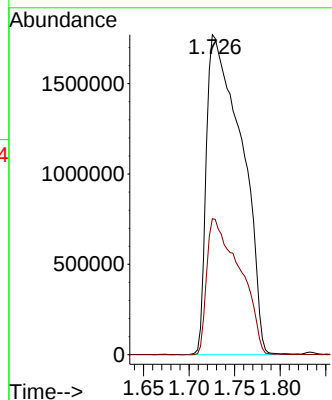
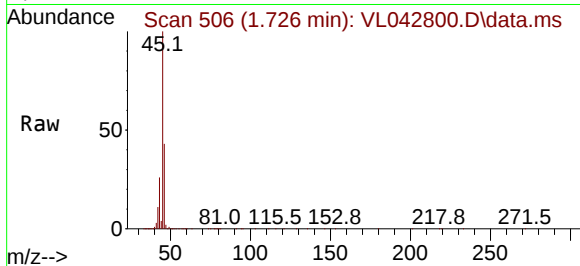




#13
 Ethanol
 Concen: 6061.609 ppbv
 RT: 1.726 min Scan# 504
 Delta R.T. 0.007 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

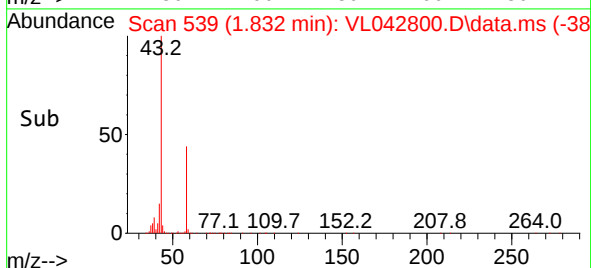
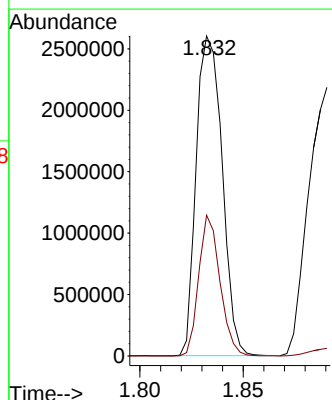
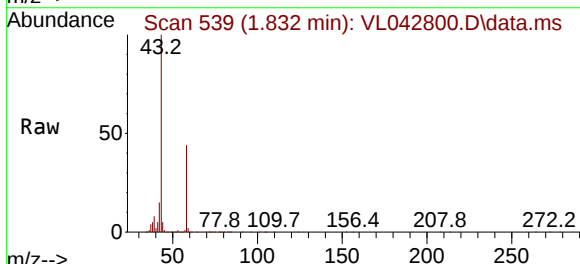
Instrument :
 MSVOA_L
 ClientSampleId :

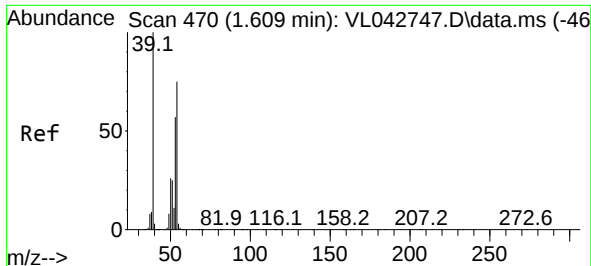
Tgt Ion: 45 Resp: 4743135
 Ion Ratio Lower Upper
 45 100
 46 40.0 17.8 71.4



#15
 Acetone
 Concen: 95.847 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. -0.003 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

Tgt Ion: 43 Resp: 2271716
 Ion Ratio Lower Upper
 43 100
 58 36.1 19.8 29.8#





#16

1,3-Butadiene

Concen: 27.421 ppbv

RT: 1.557 min Scan# 41

Delta R.T. -0.052 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

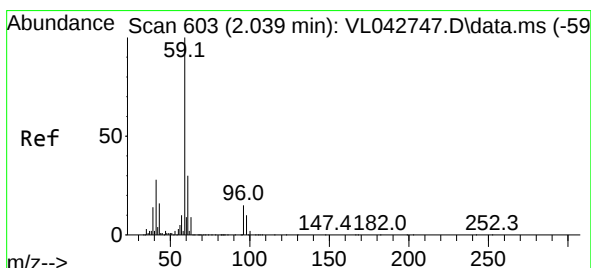
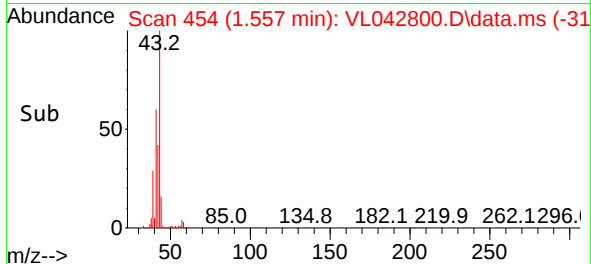
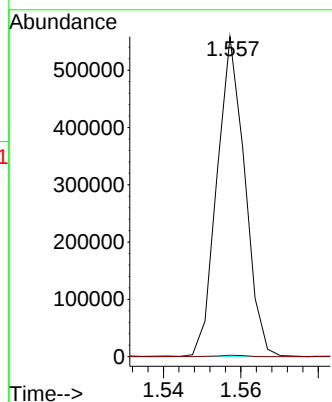
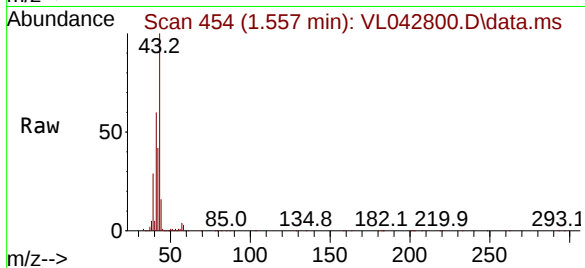
ClientSampleId :

Tgt Ion: 39 Resp: 277218

Ion Ratio Lower Upper

39 100

54 0.5 54.5 81.7#



#17

tert-Butyl alcohol

Concen: 407.793 ppbv

RT: 1.991 min Scan# 588

Delta R.T. -0.048 min

Lab File: VL042800.D

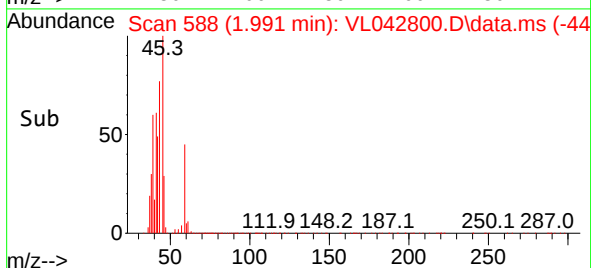
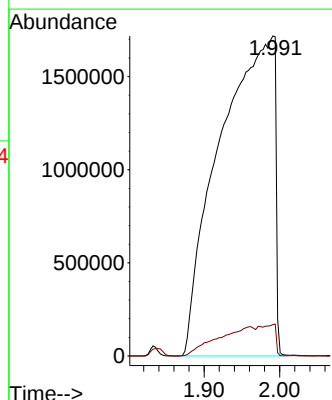
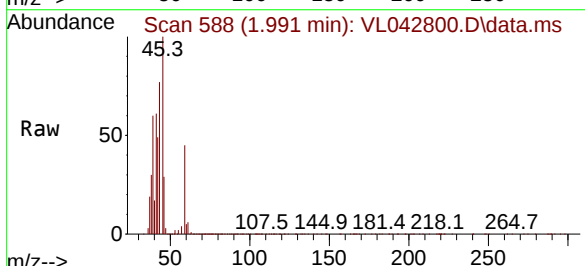
Acq: 04 Aug 2025 12:23

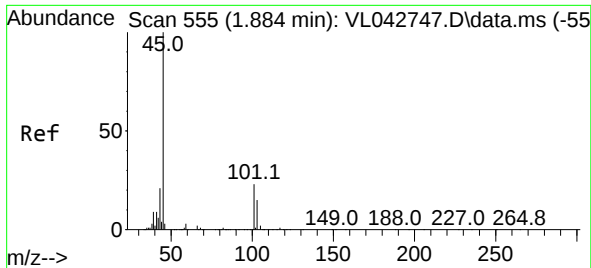
Tgt Ion: 59 Resp: 8717102

Ion Ratio Lower Upper

59 100

57 9.2 8.3 12.5

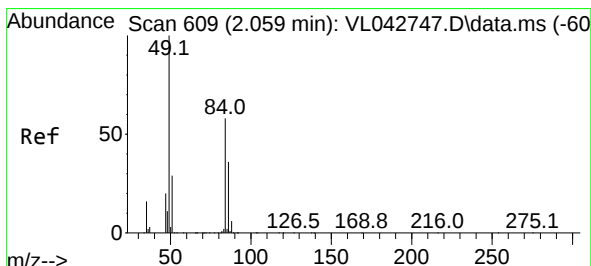
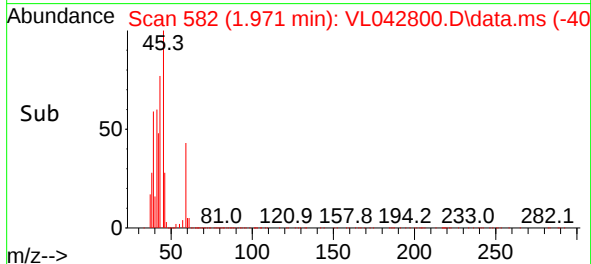
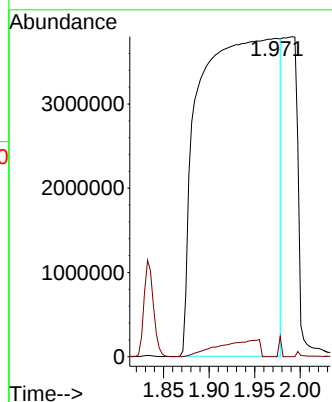
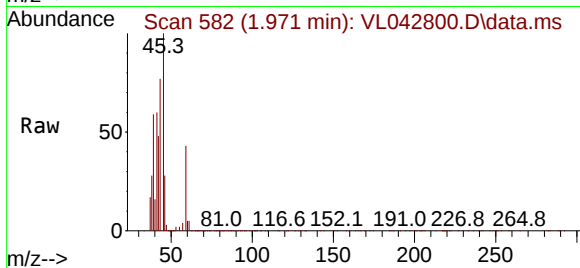




#19
Isopropyl Alcohol
Concen: 1763.643 ppbv
RT: 1.971 min Scan# 51
Delta R.T. 0.087 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

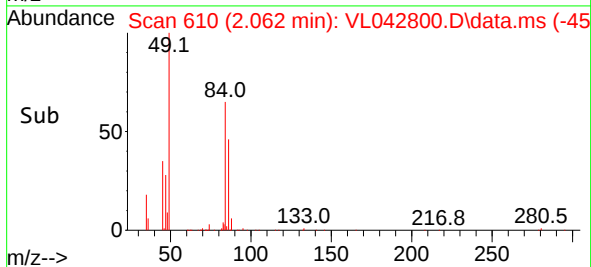
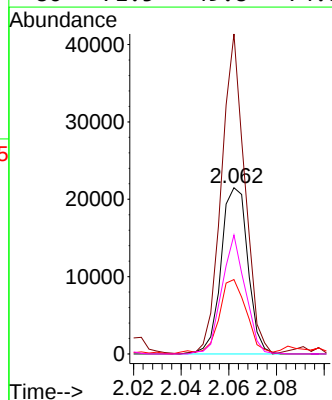
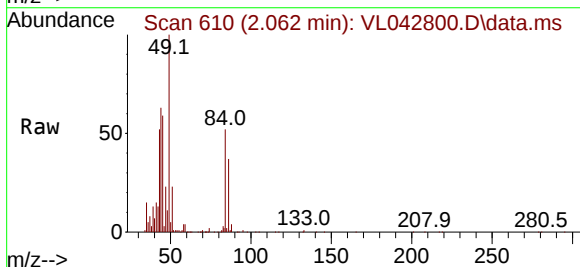
Instrument :
MSVOA_L
ClientSampleId :

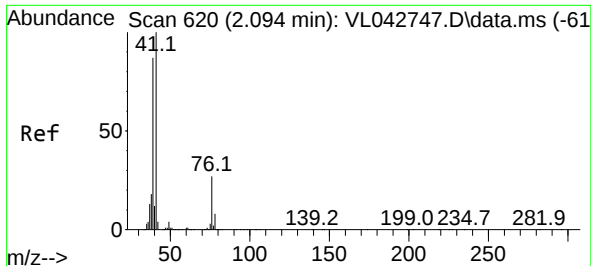
Tgt Ion: 45 Resp:22213534
Ion Ratio Lower Upper
45 100
58 0.3 30.0 45.0#



#20
Methylene Chloride
Concen: 2.246 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 84 Resp: 16776
Ion Ratio Lower Upper
84 100
49 192.4 138.6 208.0
51 43.7 40.6 61.0
86 71.5 49.8 74.8

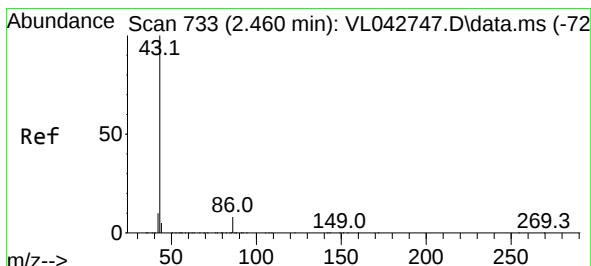
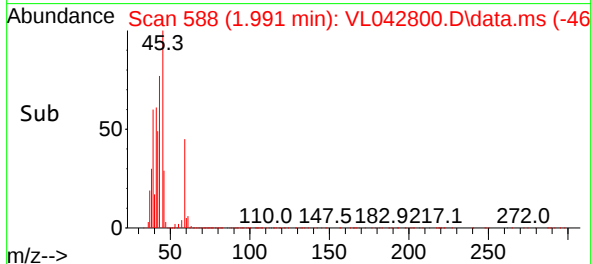
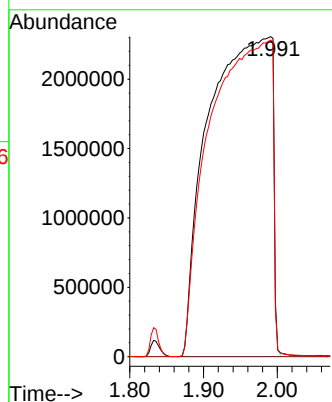
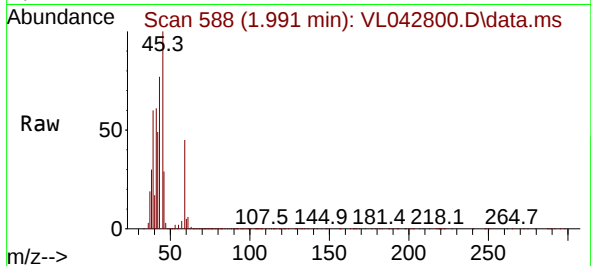




#21
 Allyl Chloride
 Concen: 936.822 ppbv
 RT: 1.991 min Scan# 51
 Delta R.T. -0.103 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

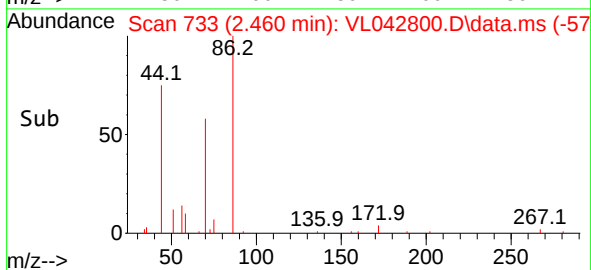
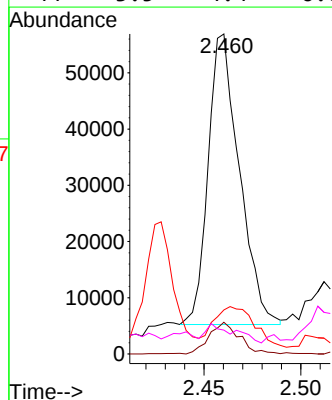
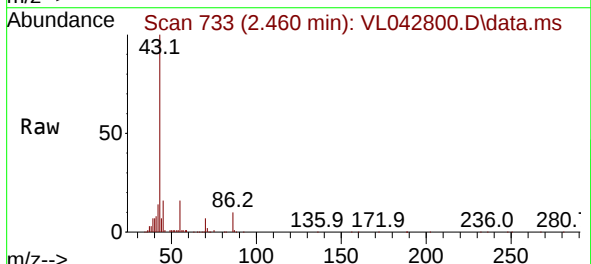
Instrument :
 MSVOA_L
 ClientSampleId :

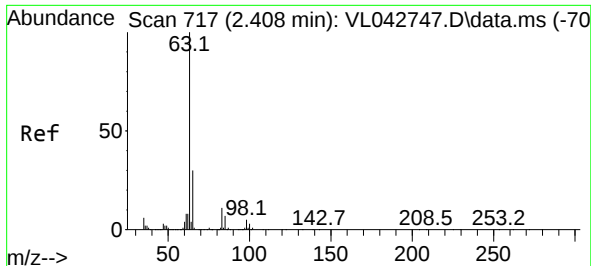
Tgt Ion: 41 Resp:13684692
 Ion Ratio Lower Upper
 41 100
 76 0.5 21.1 31.7#
 39 97.0 68.3 102.5



#23
 Vinyl Acetate
 Concen: 2.015 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. 0.000 min
 Lab File: VL042800.D
 Acq: 04 Aug 2025 12:23

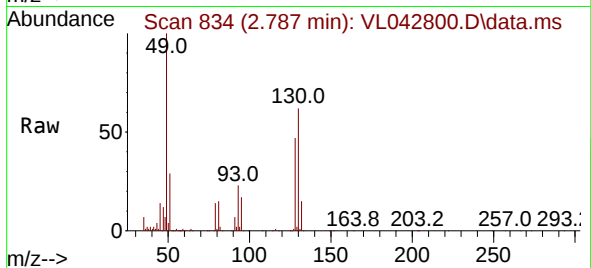
Tgt Ion: 43 Resp: 57901
 Ion Ratio Lower Upper
 43 100
 86 10.8 6.1 9.1#
 42 12.1 7.8 11.8#
 44 3.5 4.4 6.6#



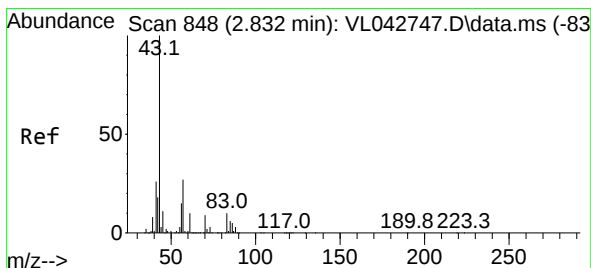
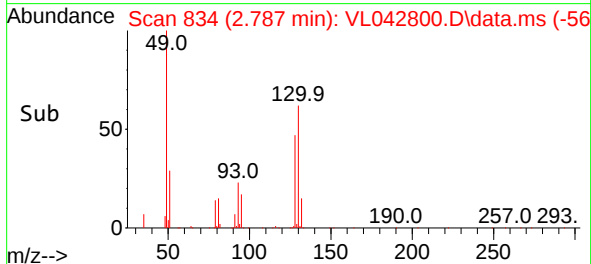
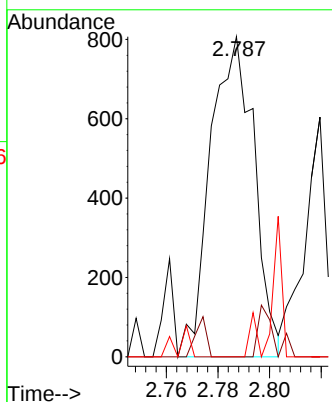


#24
1,1-Dichloroethane
Concen: 0.053 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.379 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :

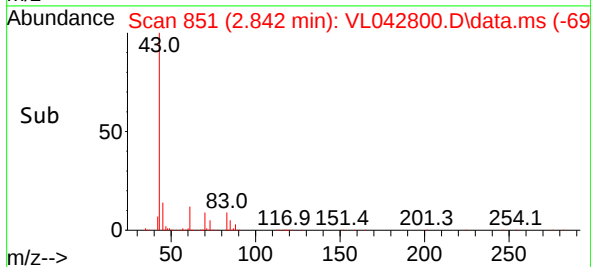
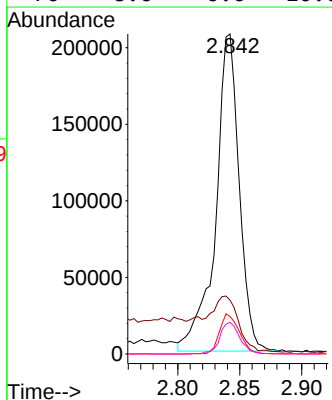
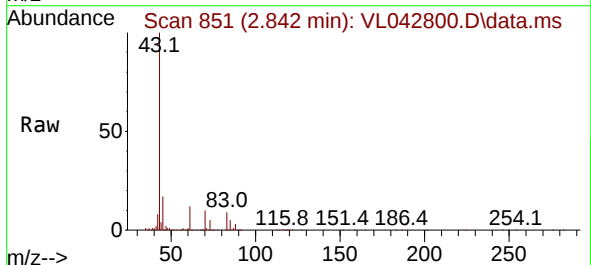


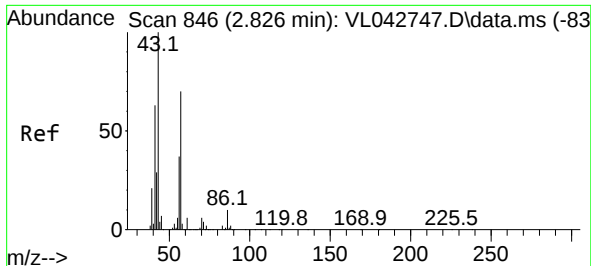
Tgt Ion: 63 Resp: 948
Ion Ratio Lower Upper
63 100
98 0.0 2.5 7.4#
100 0.0 1.6 4.8#



#25
Ethyl Acetate
Concen: 5.229 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

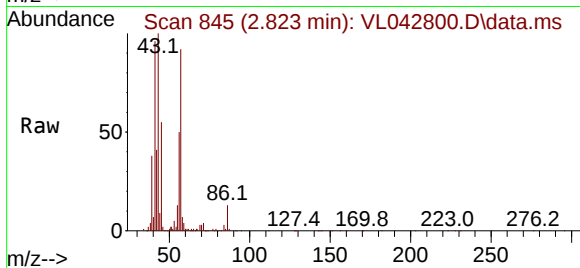
Tgt Ion: 43 Resp: 274303
Ion Ratio Lower Upper
43 100
45 45.3 7.8 11.6#
61 10.7 6.7 10.1#
70 8.6 6.6 10.0





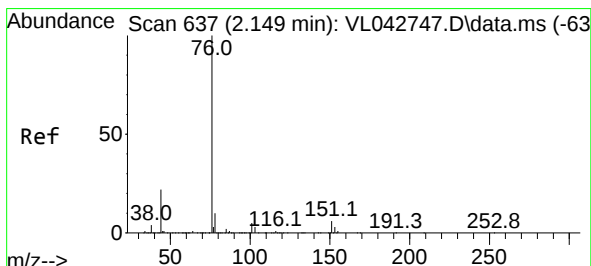
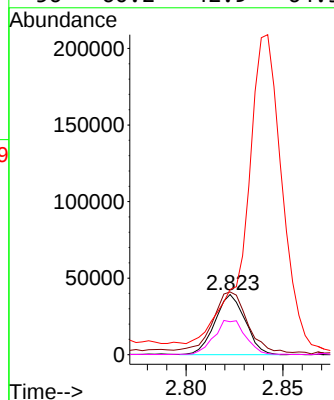
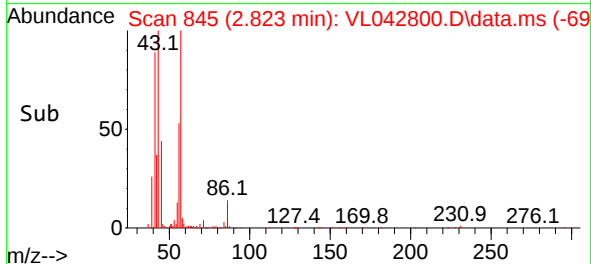
#26
Hexane
Concen: 1.856 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :

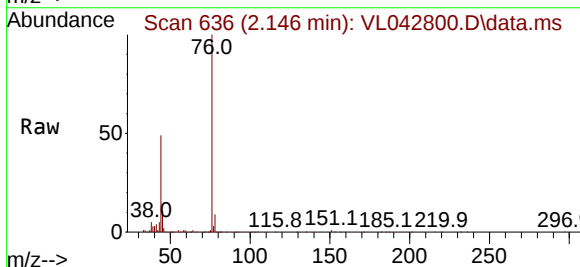


Tgt Ion: 57 Resp: 42707

Ion	Ratio	Lower	Upper
57	100		
41	135.4	75.4	113.2#
43	682.6	185.0	277.6#
56	60.2	42.9	64.3

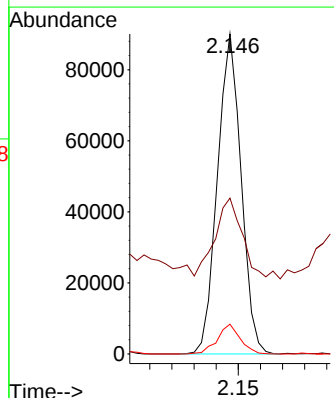
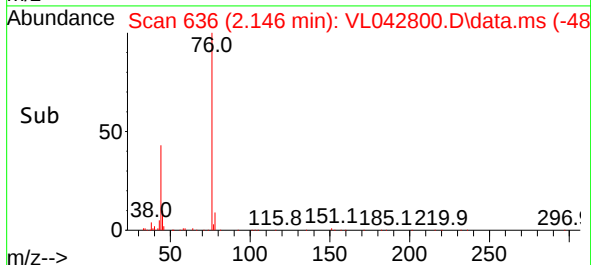


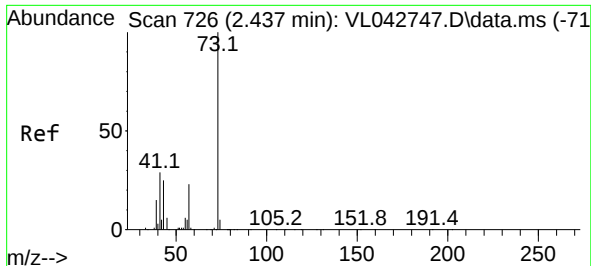
#27
Carbon Disulfide
Concen: 3.404 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23



Tgt Ion: 76 Resp: 67073

Ion	Ratio	Lower	Upper
76	100		
44	0.0	19.3	28.9#
78	8.9	9.9	14.9#

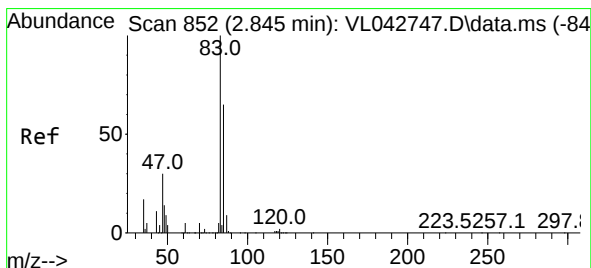
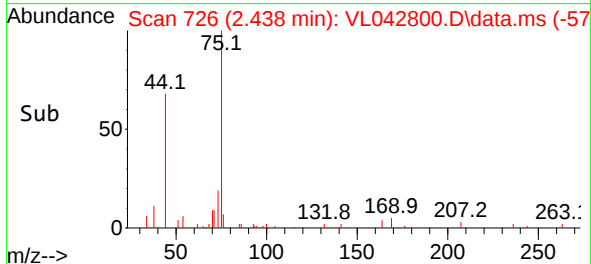
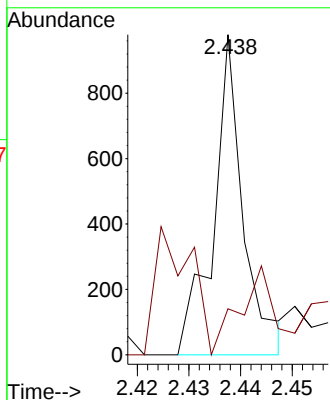
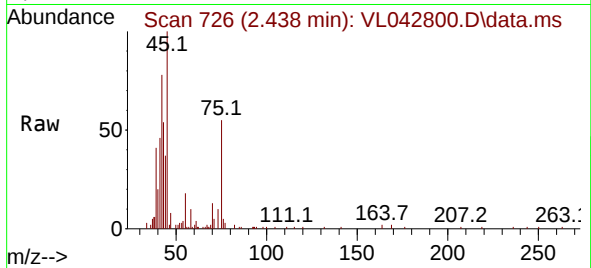




#28
Methyl tert-Butyl Ether
Concen: 0.036 ppbv
RT: 2.438 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

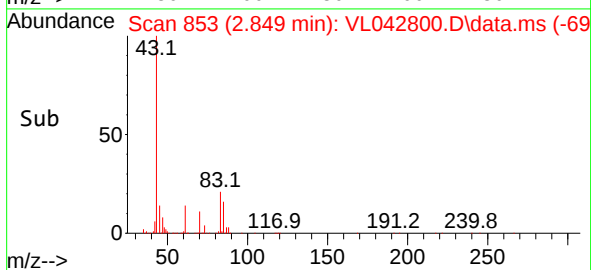
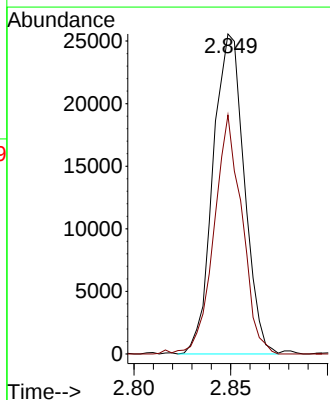
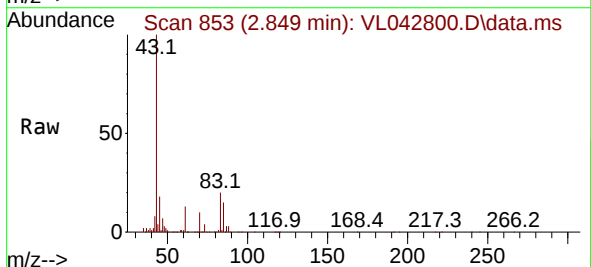
Instrument :
MSVOA_L
ClientSampleId :

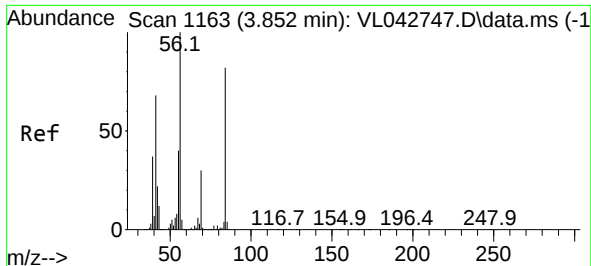
Tgt Ion: 73 Resp: 392
Ion Ratio Lower Upper
73 100
57 0.0 19.8 29.8#



#29
Chloroform
Concen: 0.806 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 83 Resp: 28648
Ion Ratio Lower Upper
83 100
85 74.7 52.2 78.2

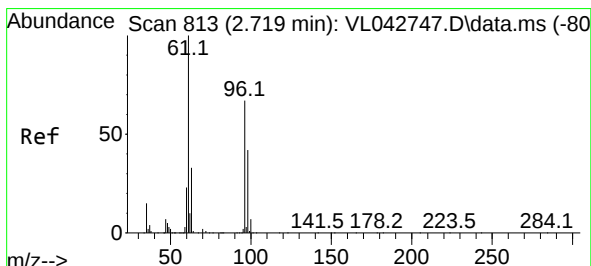
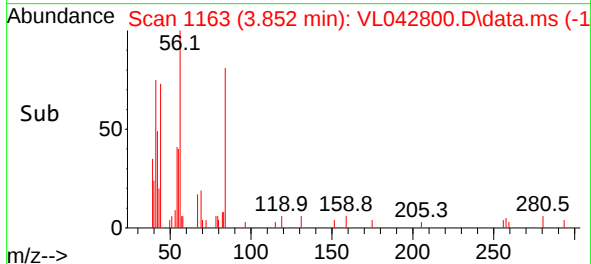
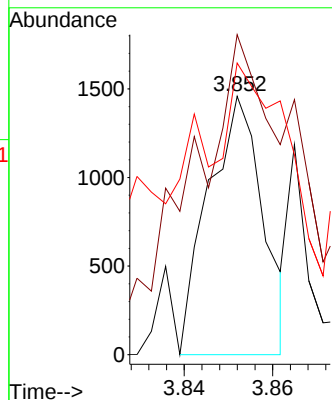
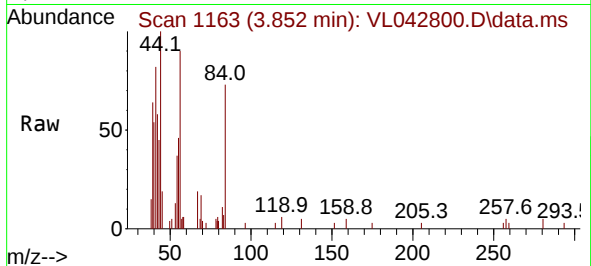




#30
Cyclohexane
Concen: 0.064 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

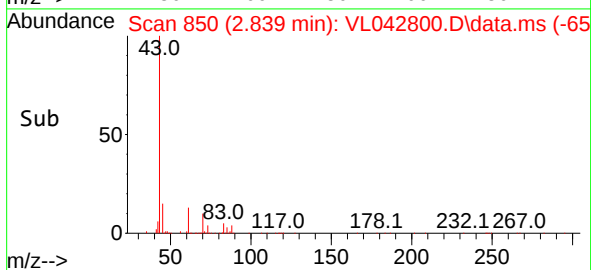
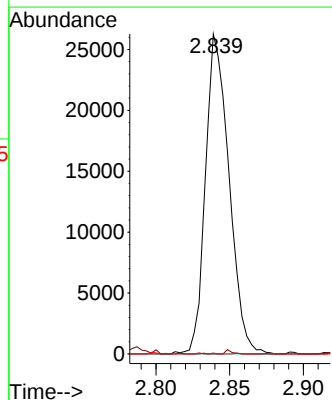
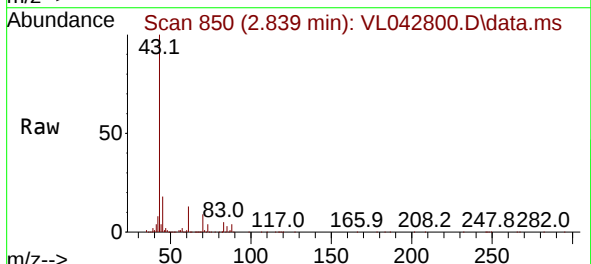
Instrument :
MSVOA_L
ClientSampleId :

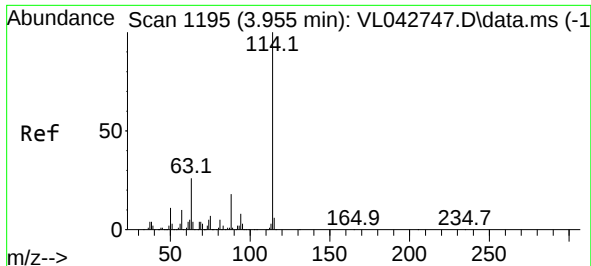
Tgt Ion: 84 Resp: 1252
Ion Ratio Lower Upper
84 100
56 303.6 97.5 146.3#
41 209.8 67.2 100.8#



#31
cis-1,2-Dichloroethene
Concen: 1.233 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.120 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 61 Resp: 29160
Ion Ratio Lower Upper
61 100
96 0.0 53.5 80.3#
98 0.3 33.6 50.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.003 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

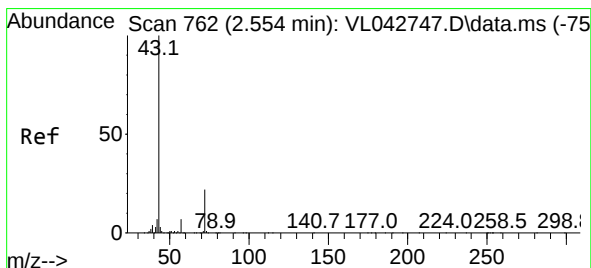
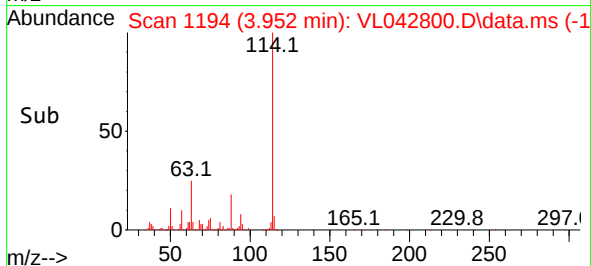
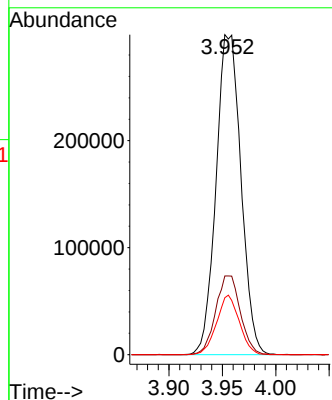
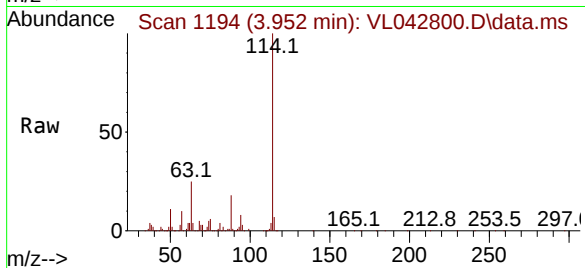
Tgt Ion:114 Resp: 484996

Ion Ratio Lower Upper

114 100

63 24.4 20.5 30.7

88 17.0 14.0 21.0



#34

2-Butanone

Concen: 1.608 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.010 min

Lab File: VL042800.D

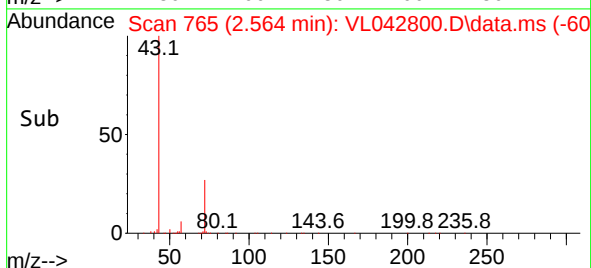
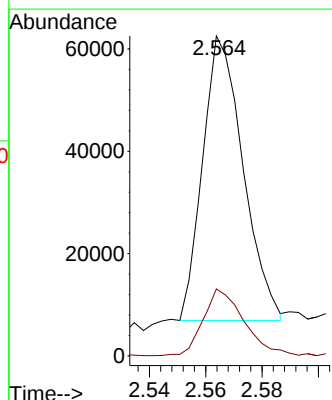
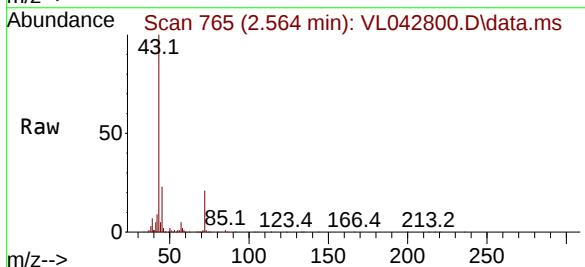
Acq: 04 Aug 2025 12:23

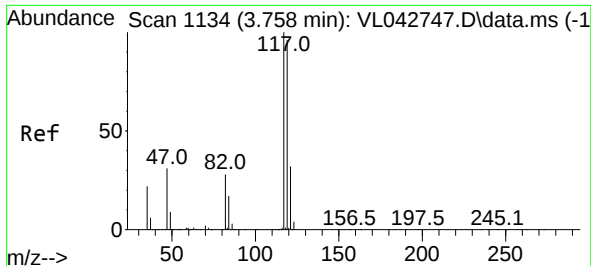
Tgt Ion: 43 Resp: 55250

Ion Ratio Lower Upper

43 100

72 25.0 17.4 26.0

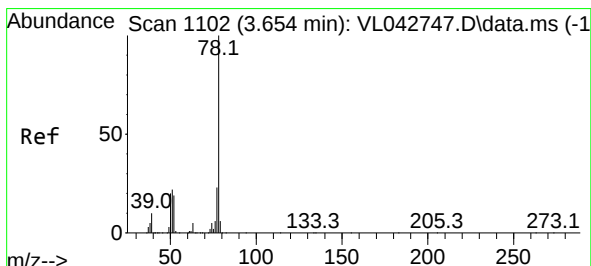
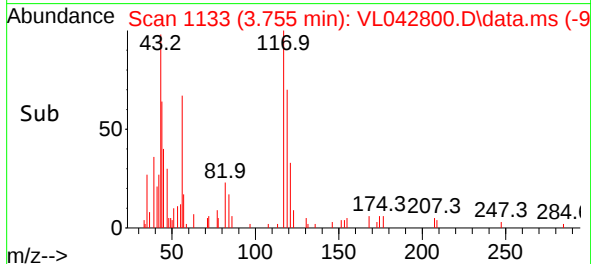
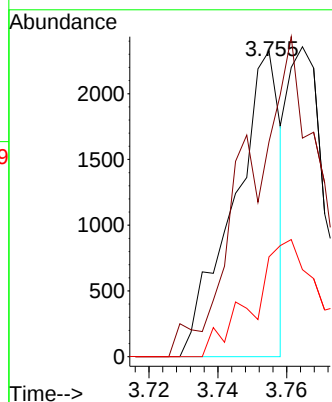
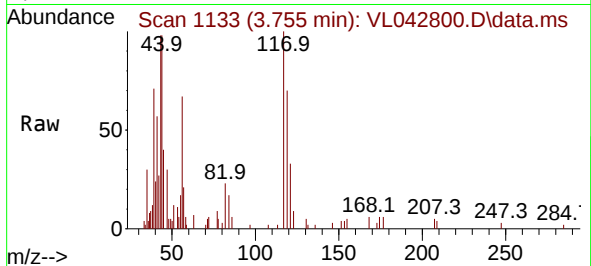




#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

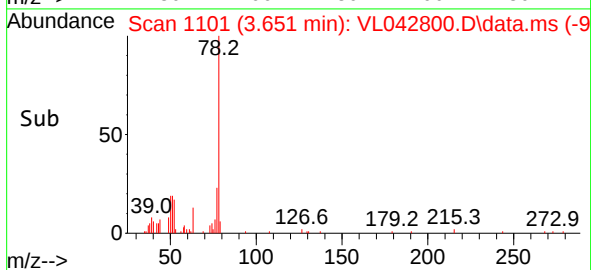
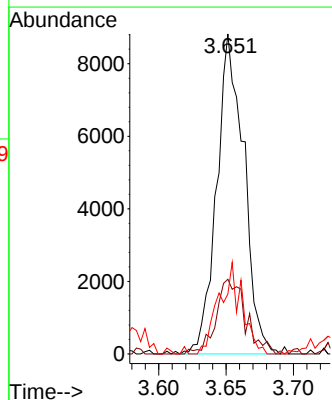
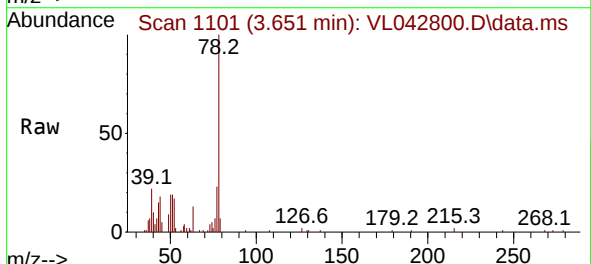
Instrument :
MSVOA_L
ClientSampleId :

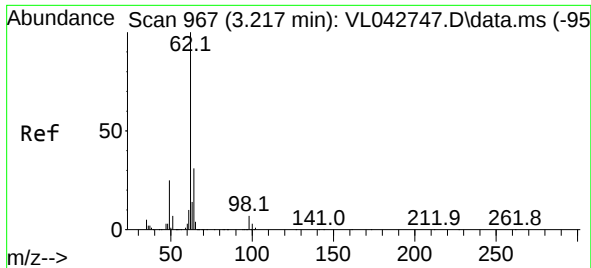
Tgt Ion:117 Resp: 2193
Ion Ratio Lower Upper
117 100
119 59.5 77.1 115.7#
121 32.7 25.5 38.3



#36
Benzene
Concen: 0.269 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 78 Resp: 12369
Ion Ratio Lower Upper
78 100
77 23.3 18.5 27.7
50 18.8 16.2 24.2





#37

1,2-Dichloroethane

Concen: 0.020 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.003 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

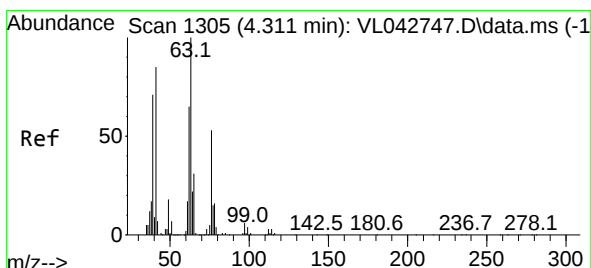
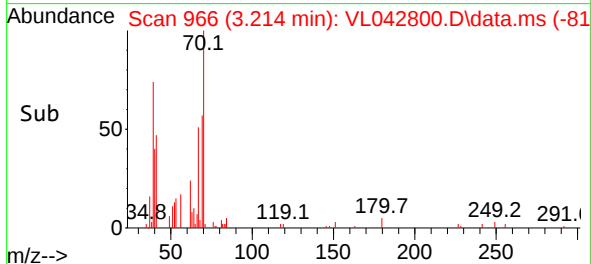
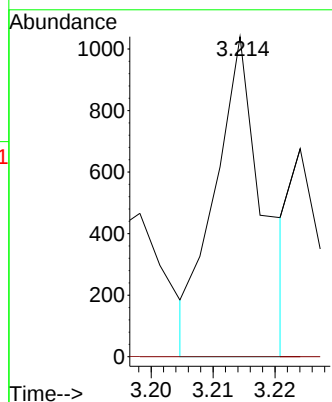
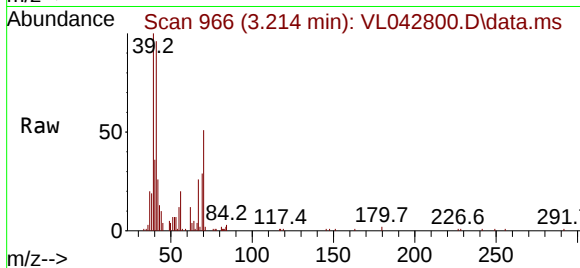
ClientSampleId :

Tgt Ion: 62 Resp: 562

Ion Ratio Lower Upper

62 100

98 0.0 5.2 7.8#



#39

1,2-Dichloropropane

Concen: 6.976 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

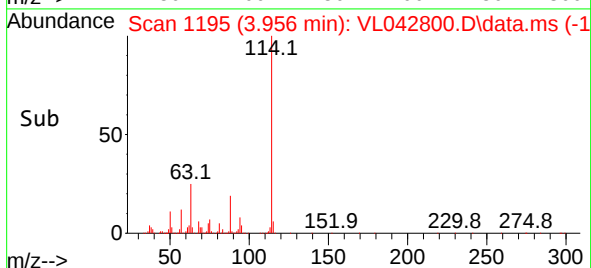
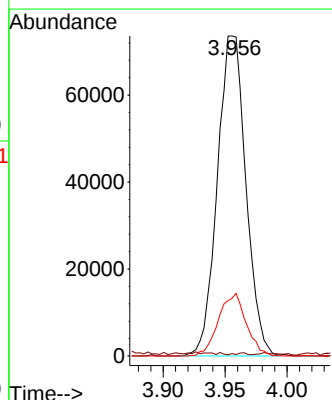
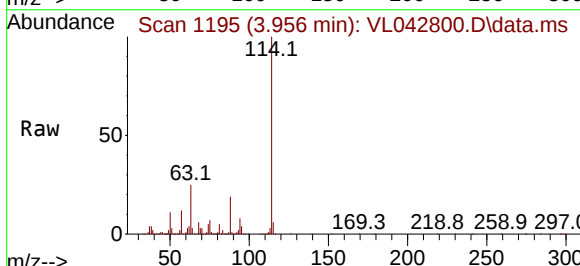
Tgt Ion: 63 Resp: 118364

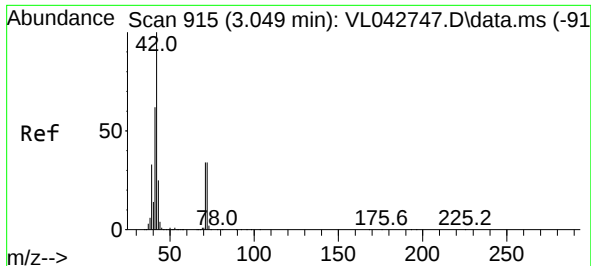
Ion Ratio Lower Upper

63 100

41 0.1 68.2 102.4#

62 18.0 52.0 78.0#

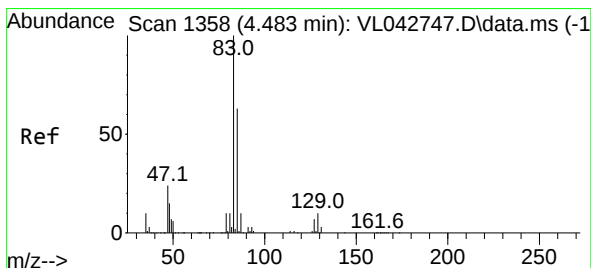
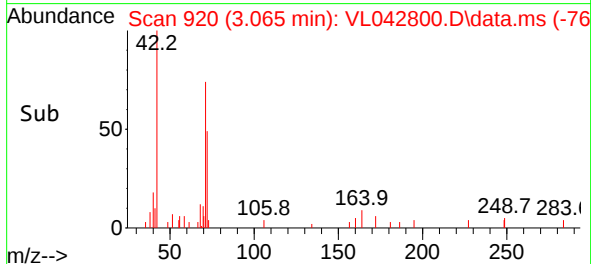
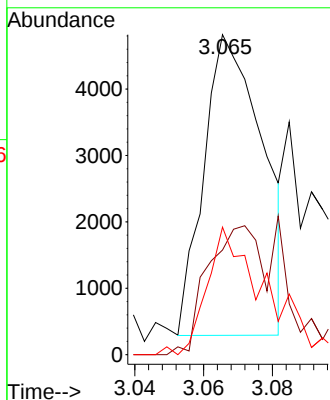
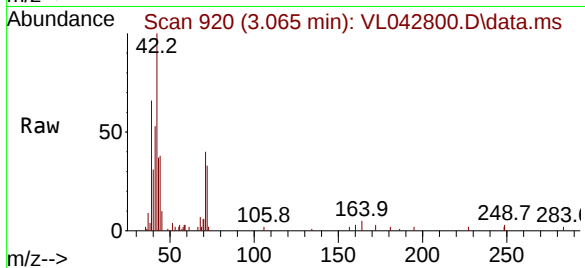




#41
Tetrahydrofuran
Concen: 0.306 ppbv
RT: 3.065 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

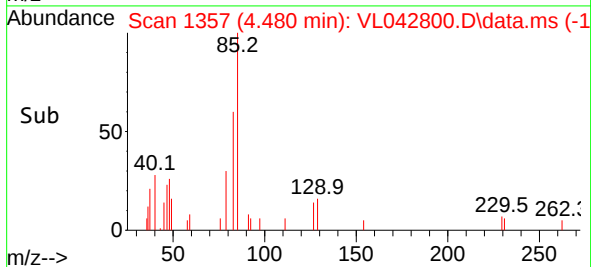
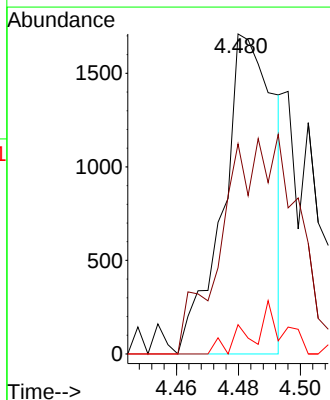
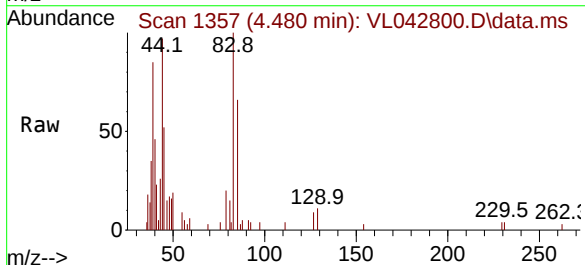
Instrument :
MSVOA_L
ClientSampleId :

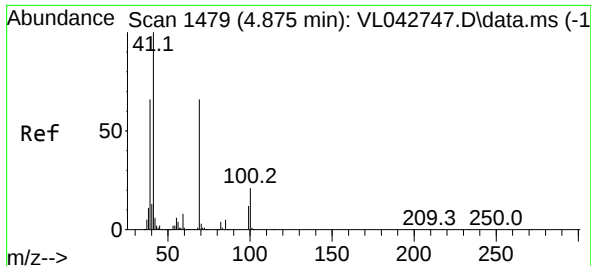
Tgt Ion: 42 Resp: 5352
Ion Ratio Lower Upper
42 100
72 0.0 30.9 46.3#
71 42.3 28.6 43.0



#42
Bromodichloromethane
Concen: 0.055 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 83 Resp: 1968
Ion Ratio Lower Upper
83 100
85 65.7 50.2 75.4
127 9.2 5.4 8.2#

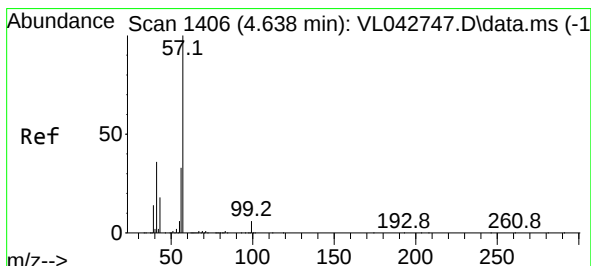
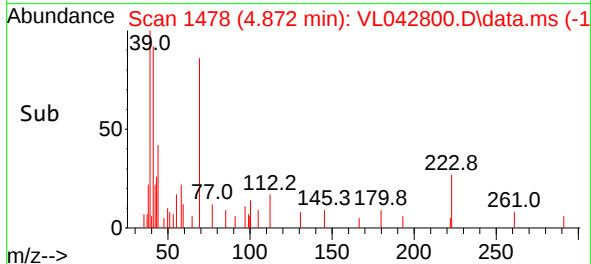
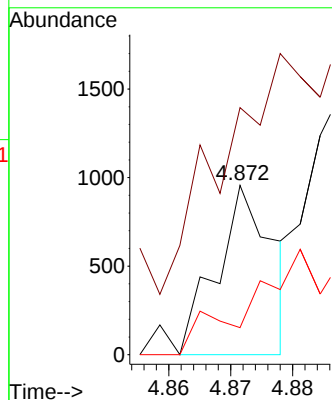
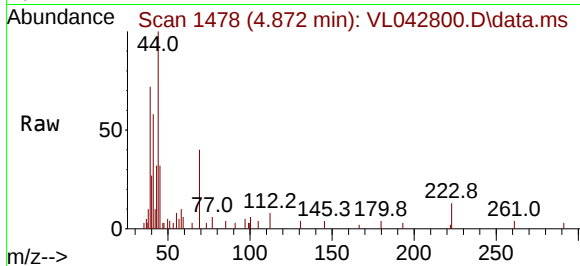




#43
Methyl Methacrylate
Concen: 0.037 ppbv
RT: 4.872 min Scan# 1478
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

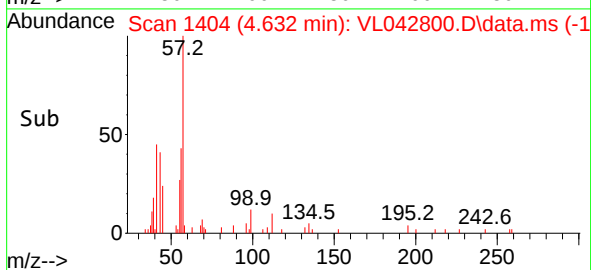
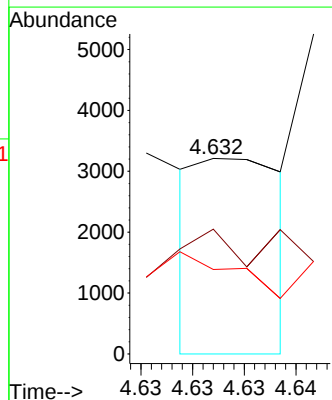
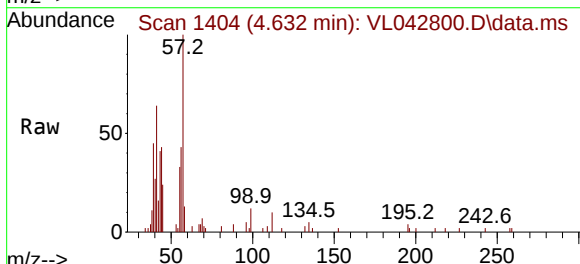
Instrument :
MSVOA_L
ClientSampleId :

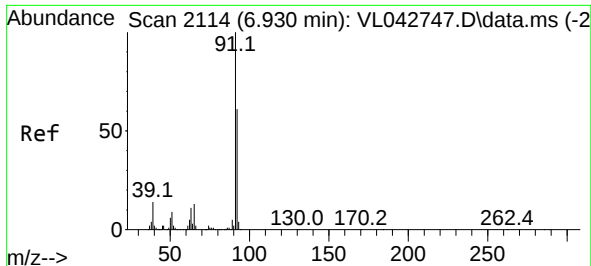
Tgt Ion: 69 Resp: 603
Ion Ratio Lower Upper
69 100
41 0.0 125.7 188.5#
100 0.0 28.6 42.8#



#44
2,2,4-Trimethylpentane
Concen: 0.024 ppbv
RT: 4.632 min Scan# 1404
Delta R.T. -0.006 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 57 Resp: 1822
Ion Ratio Lower Upper
57 100
41 303.5 28.3 42.5#
56 272.4 25.8 38.6#

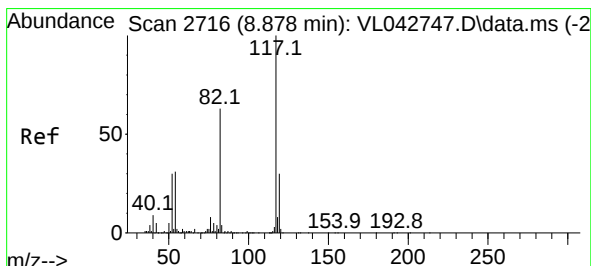
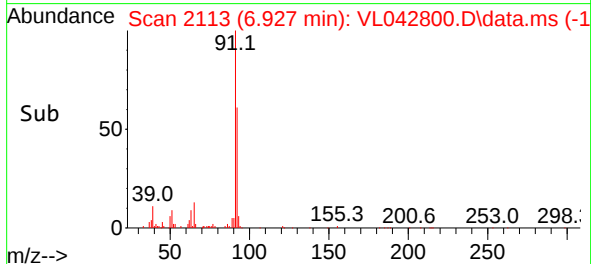
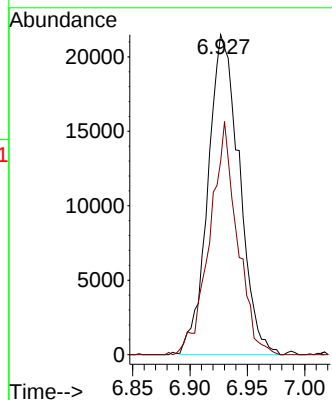
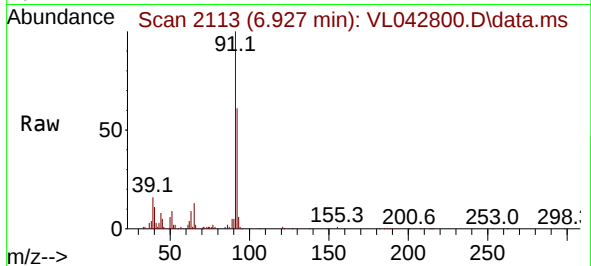




#53
Toluene
Concen: 0.829 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

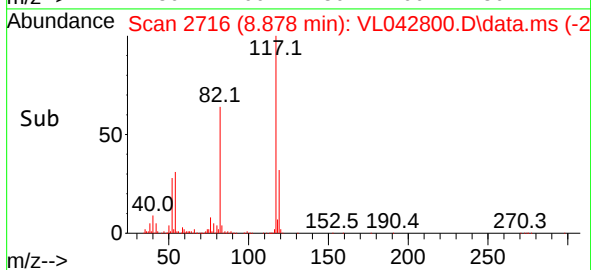
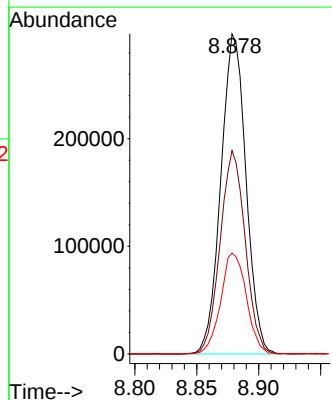
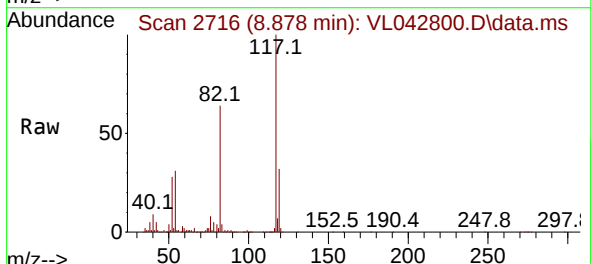
Instrument :
MSVOA_L
ClientSampleId :

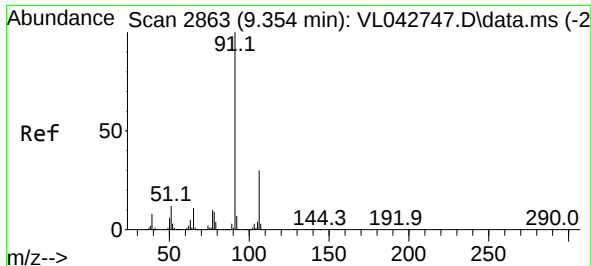
Tgt Ion: 91 Resp: 40915
Ion Ratio Lower Upper
91 100
92 64.1 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 117 Resp: 419893
Ion Ratio Lower Upper
117 100
82 63.6 53.3 79.9
119 32.3 25.8 38.6

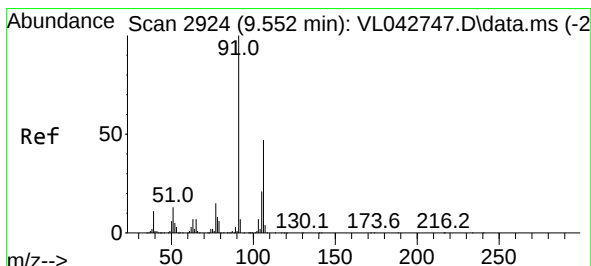
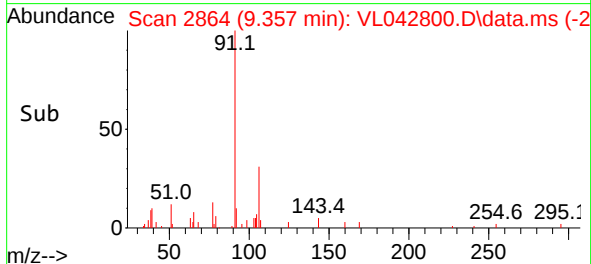
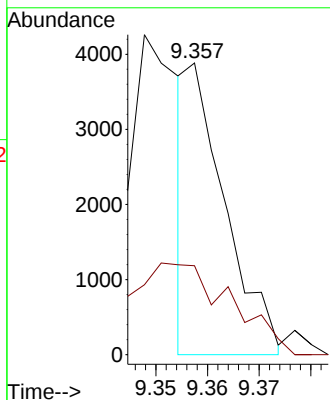
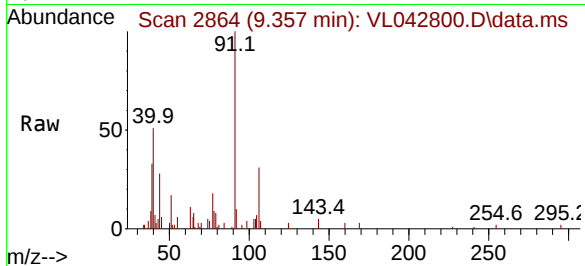




#58
Ethyl Benzene
Concen: 0.030 ppbv
RT: 9.357 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

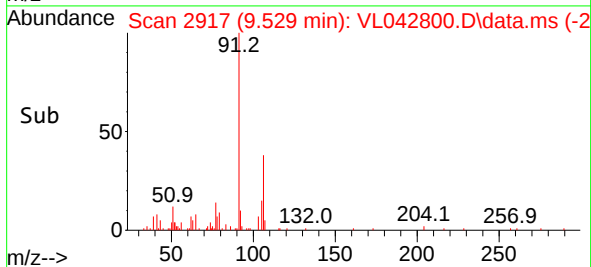
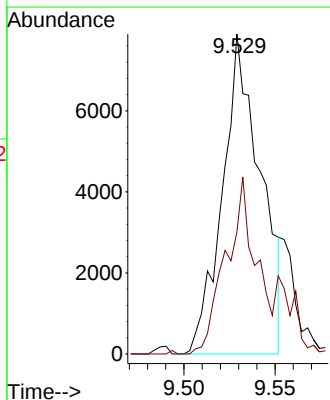
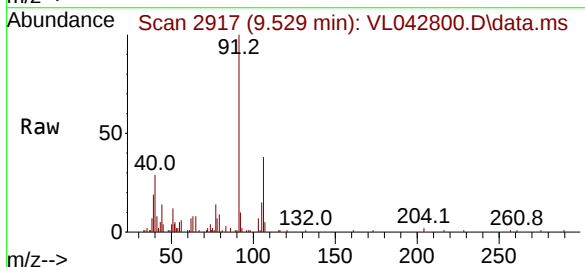
Instrument :
MSVOA_L
ClientSampleId :

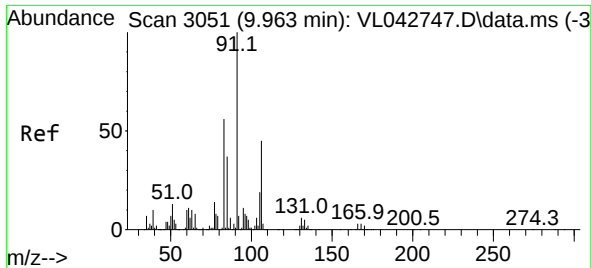
Tgt Ion: 91 Resp: 1993
Ion Ratio Lower Upper
91 100
106 25.8 23.8 35.6



#59
m/p-Xylene
Concen: 0.216 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

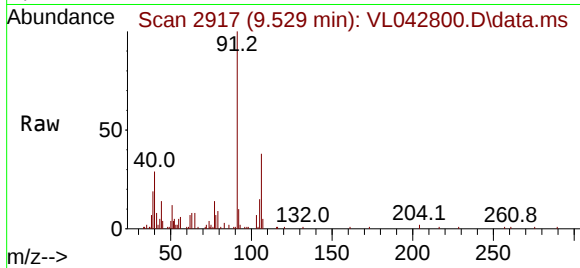
Tgt Ion: 91 Resp: 11454
Ion Ratio Lower Upper
91 100
106 56.2 37.4 56.2#



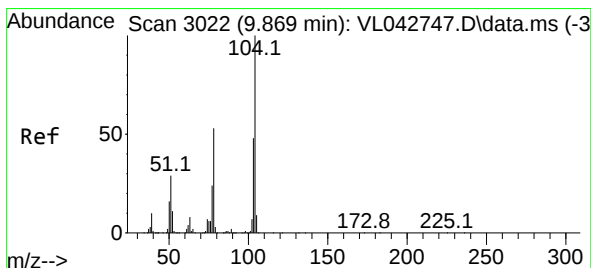
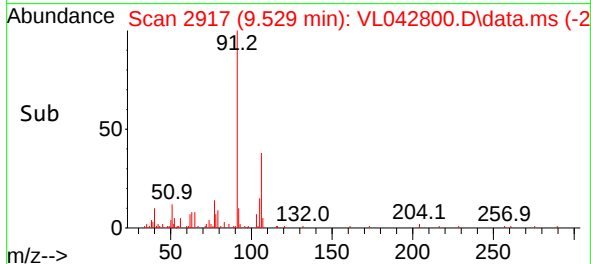
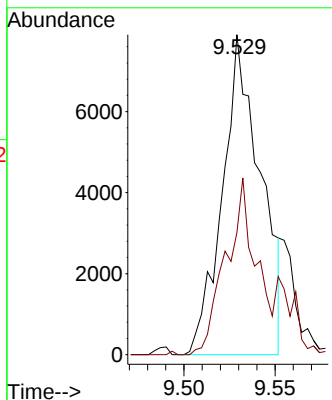


#60
o-Xylene
Concen: 0.216 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.434 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :

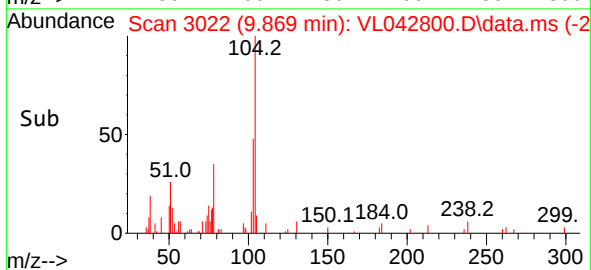
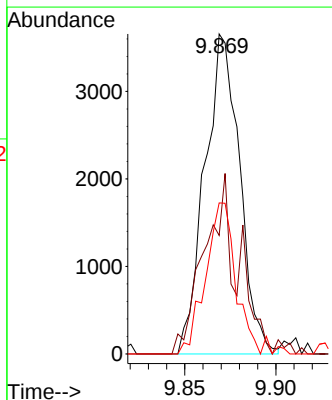
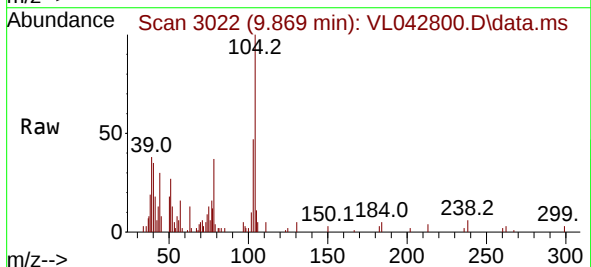


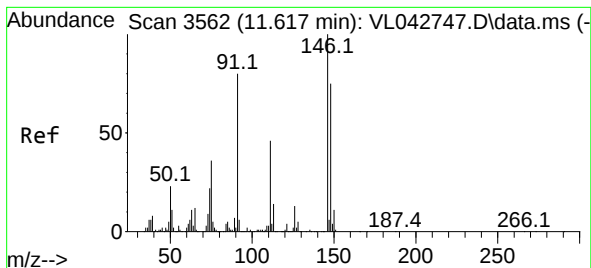
Tgt Ion: 91 Resp: 11454
Ion Ratio Lower Upper
91 100
106 56.3 22.0 66.0



#61
Styrene
Concen: 0.218 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion:104 Resp: 4865
Ion Ratio Lower Upper
104 100
78 55.8 41.5 62.3
103 41.9 37.5 56.3





#66

Benzyl Chloride

Concen: 1.883 ppbv

RT: 11.545 min Scan# 31

Delta R.T. -0.071 min MSVOA_L

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

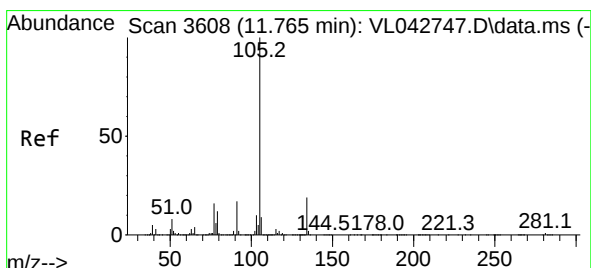
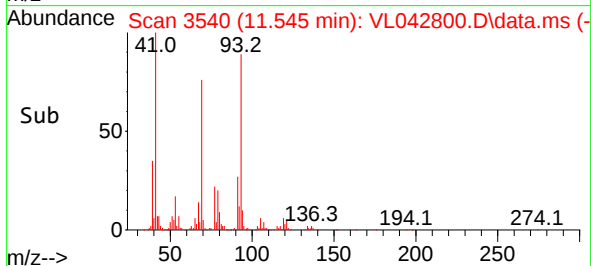
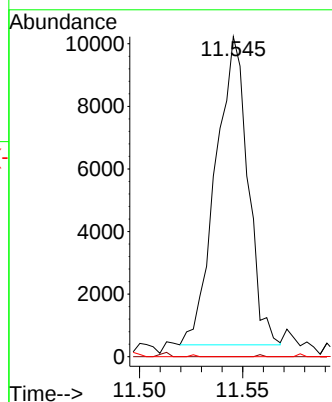
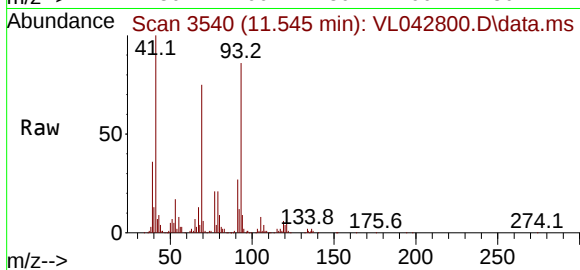
Tgt Ion: 91 Resp: 10725

Ion Ratio Lower Upper

91 100

126 0.0 14.4 21.6#

128 0.4 5.2 7.8#



#67

sec-Butylbenzene

Concen: 0.422 ppbv

RT: 11.850 min Scan# 3634

Delta R.T. 0.084 min

Lab File: VL042800.D

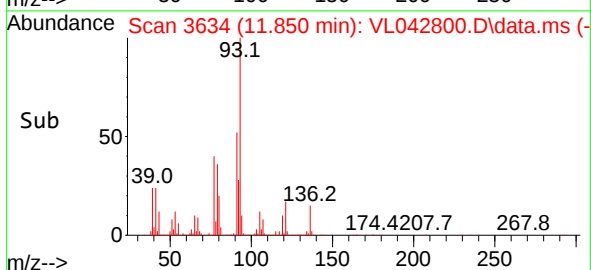
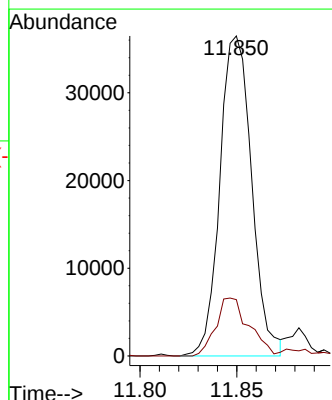
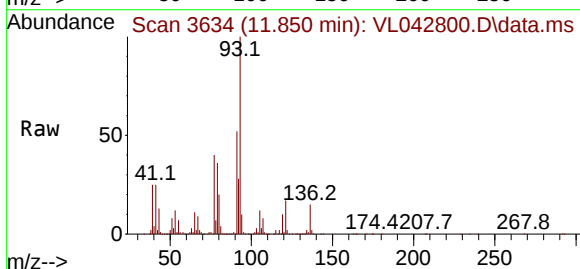
Acq: 04 Aug 2025 12:23

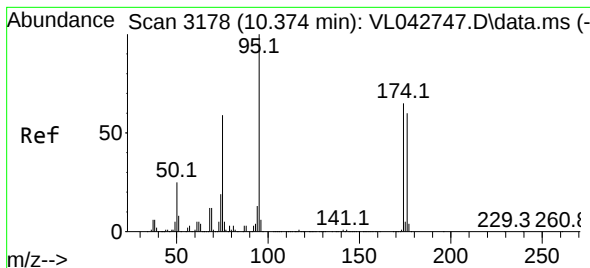
Tgt Ion: 105 Resp: 41671

Ion Ratio Lower Upper

105 100

134 20.9 15.5 23.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.561 ppbv

RT: 10.377 min Scan# 3179

Delta R.T. 0.003 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

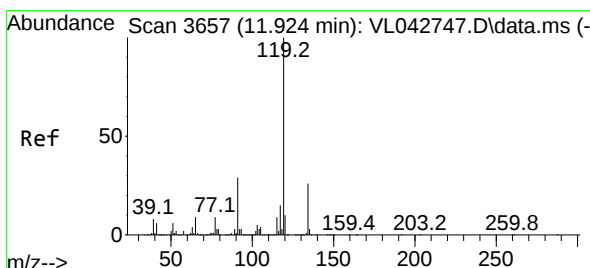
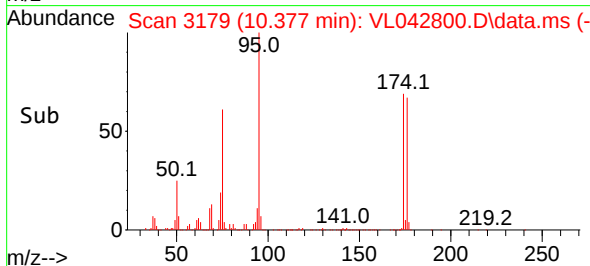
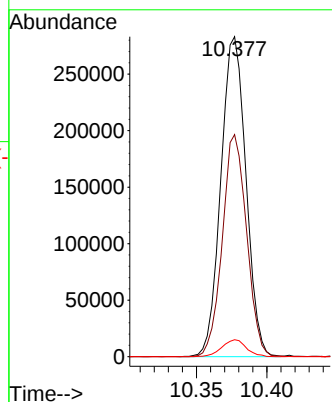
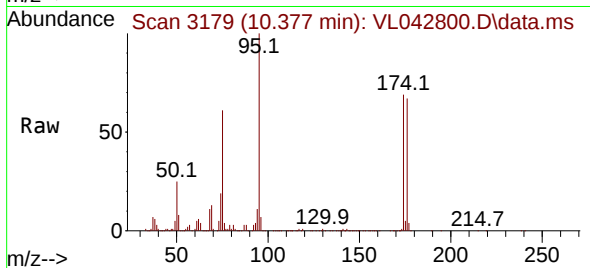
Tgt Ion: 95 Resp: 351197

Ion Ratio Lower Upper

95 100

174 67.4 53.8 80.6

175 5.2 4.0 6.0



#69

p-Isopropyltoluene

Concen: 0.677 ppbv

RT: 11.924 min Scan# 3657

Delta R.T. 0.000 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

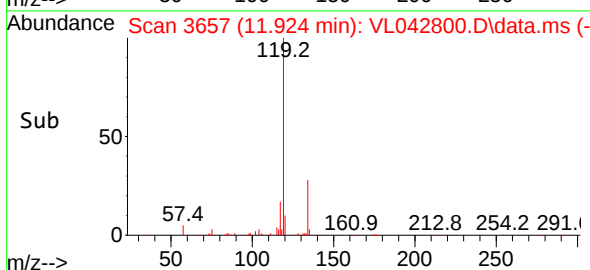
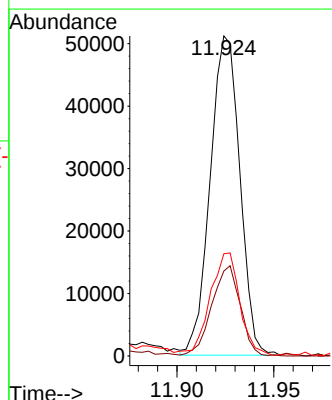
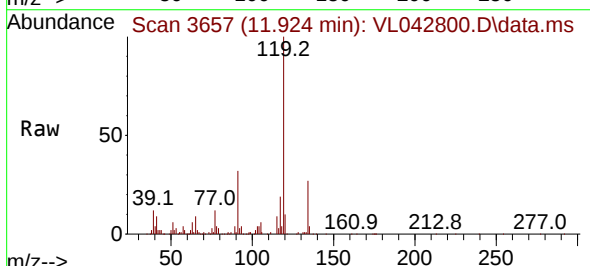
Tgt Ion: 119 Resp: 54508

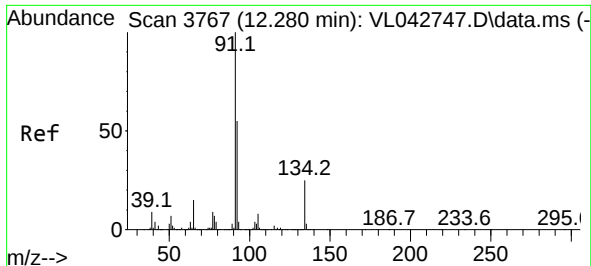
Ion Ratio Lower Upper

119 100

134 27.4 20.6 31.0

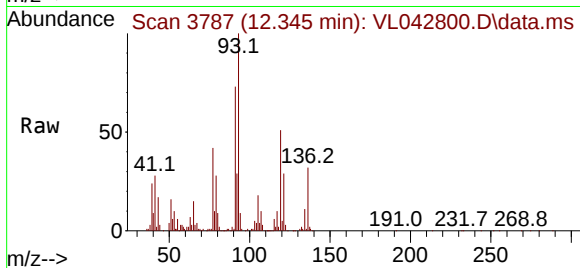
91 32.6 23.2 34.8



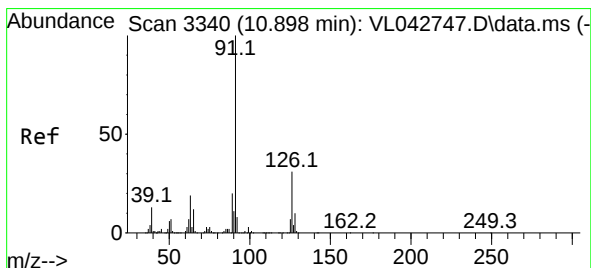
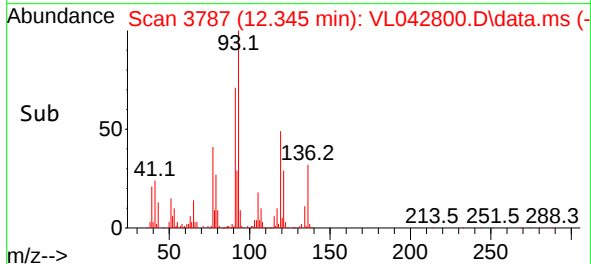
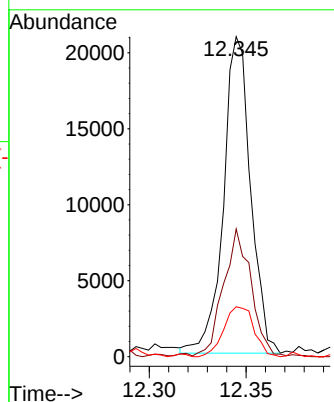


#70
n-Butylbenzene
Concen: 0.261 ppbv
RT: 12.345 min Scan# 31
Delta R.T. 0.065 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Instrument :
MSVOA_L
ClientSampleId :

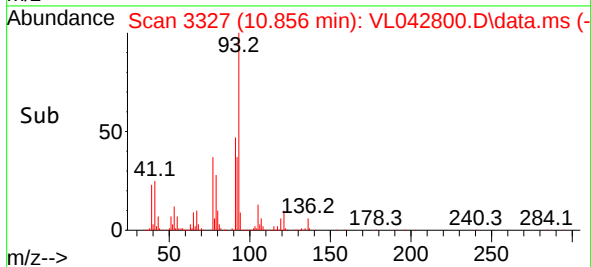
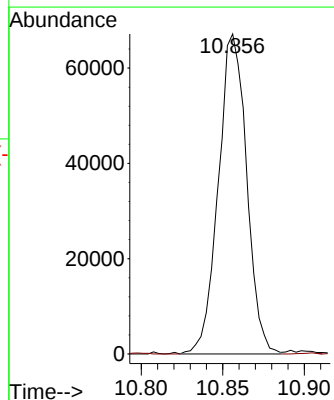
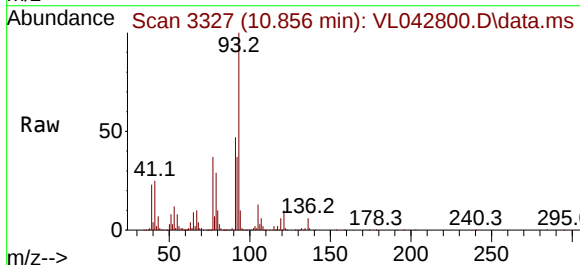


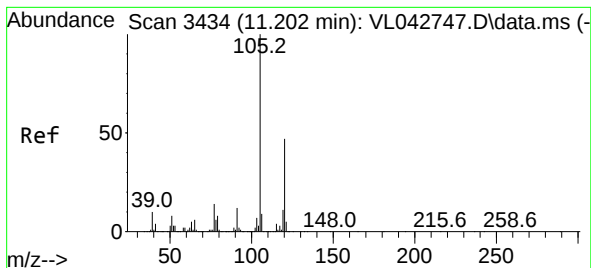
Tgt Ion: 91 Resp: 20299
Ion Ratio Lower Upper
91 100
92 42.5 43.4 65.2#
134 19.7 19.6 29.4



#71
2-Chlorotoluene
Concen: 1.353 ppbv
RT: 10.856 min Scan# 3327
Delta R.T. -0.042 min
Lab File: VL042800.D
Acq: 04 Aug 2025 12:23

Tgt Ion: 91 Resp: 81049
Ion Ratio Lower Upper
91 100
126 0.2 12.0 48.2#





#73

1,3,5-Trimethylbenzene

Concen: 0.023 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. 0.000 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

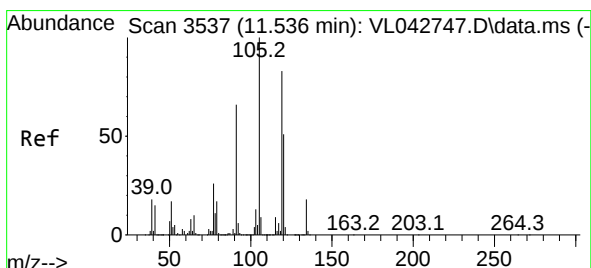
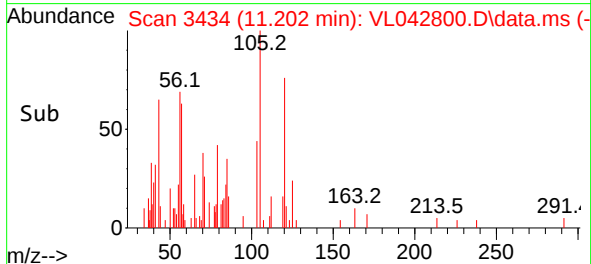
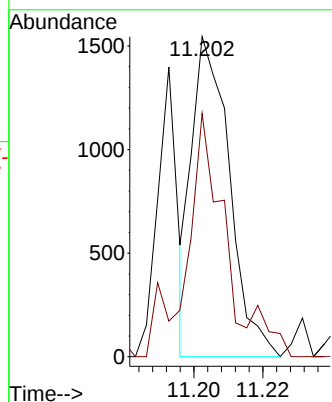
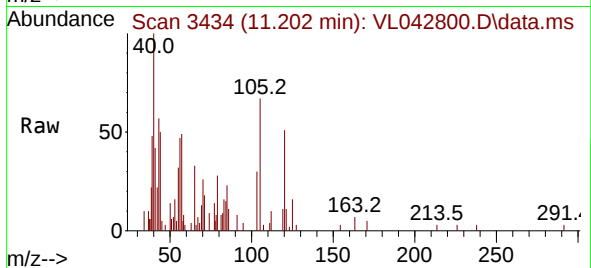
ClientSampleId :

Tgt Ion:105 Resp: 1173

Ion Ratio Lower Upper

105 100

120 68.7 37.8 56.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.150 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.000 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Tgt Ion:105 Resp: 8507

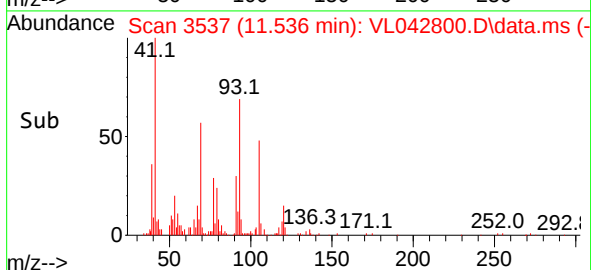
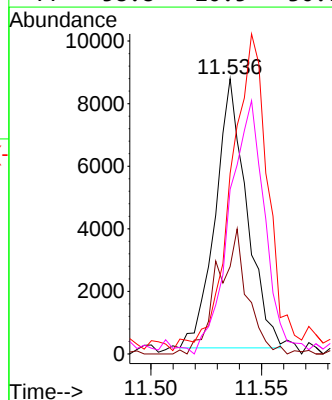
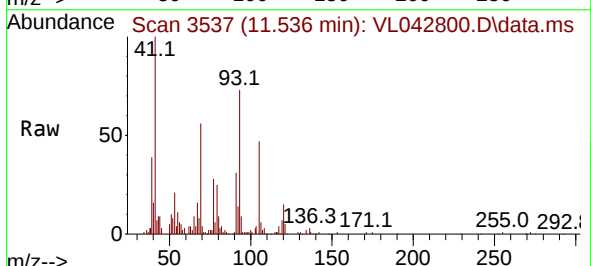
Ion Ratio Lower Upper

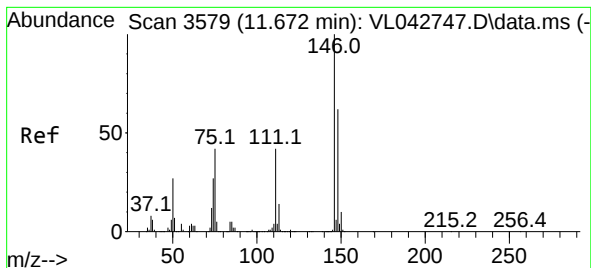
105 100

120 31.0 40.8 61.2#

91 61.5 53.0 79.4

77 58.8 20.5 30.7#





#76

1,4-Dichlorobenzene

Concen: 0.050 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.003 min

Lab File: VL042800.D

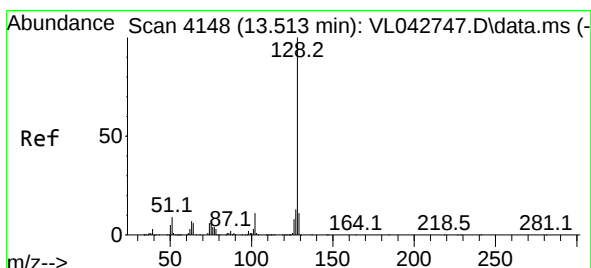
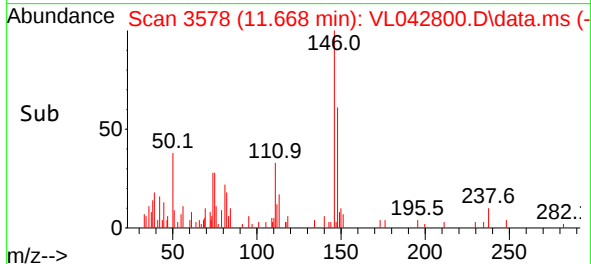
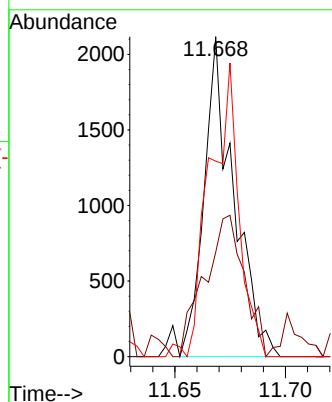
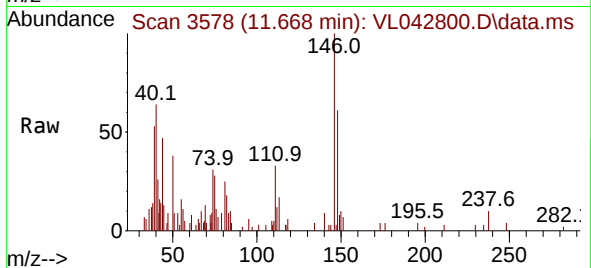
Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	146	Resp:	1965
Ion	Ratio	Lower	Upper
146	100		
111	70.3	21.4	64.2#
148	91.0	32.1	96.3



#79

Naphthalene

Concen: 0.481 ppbv

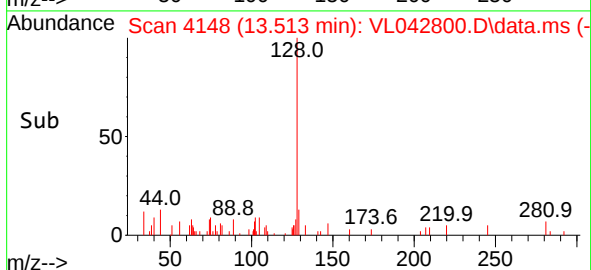
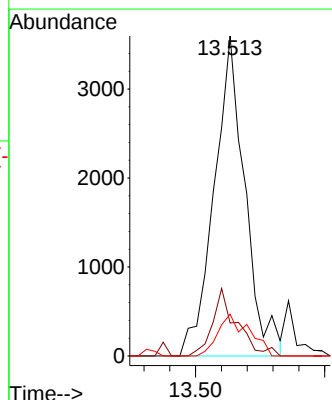
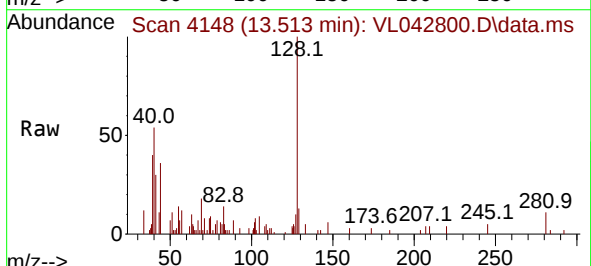
RT: 13.513 min Scan# 4148

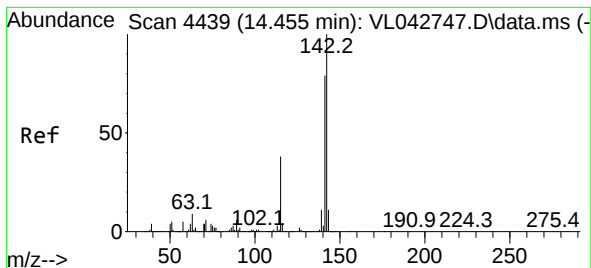
Delta R.T. 0.000 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Tgt Ion:	128	Resp:	2980
Ion	Ratio	Lower	Upper
128	100		
127	10.3	10.5	15.7#
129	13.0	8.6	13.0#





#80

Naphthalene, 2-methyl-

Concen: 1.146 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.013 min

Lab File: VL042800.D

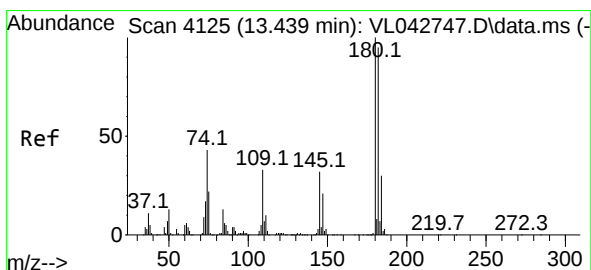
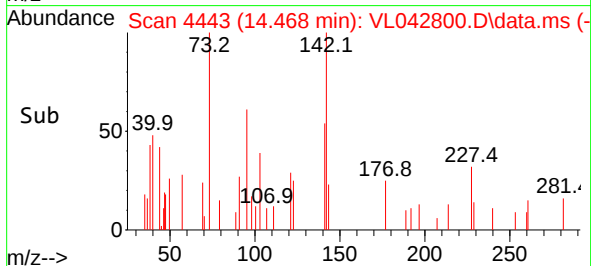
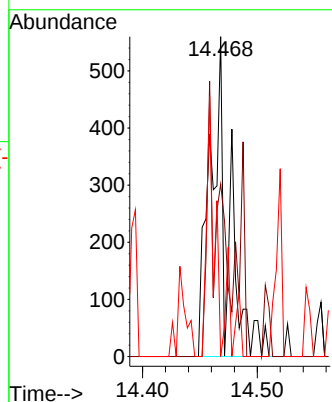
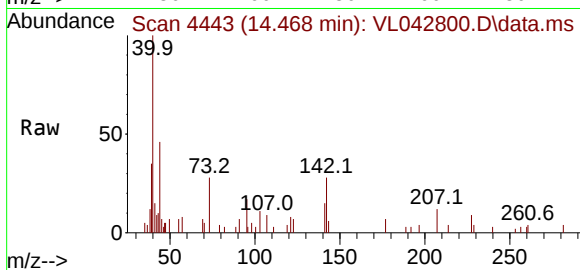
Acq: 04 Aug 2025 12:23

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	142	Resp:	600
Ion Ratio	Lower	Upper	
142	100		
141	78.7	65.8	98.8
115	46.8	31.2	46.8#



#81

1,2,4-Trichlorobenzene

Concen: 0.443 ppbv

RT: 13.442 min Scan# 4126

Delta R.T. 0.003 min

Lab File: VL042800.D

Acq: 04 Aug 2025 12:23

Tgt Ion:	180	Resp:	294
Ion Ratio	Lower	Upper	
180	100		
182	217.3	76.2	114.2#
184	41.5	24.8	37.2#

