

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042855.D
 Acq On : 13 Aug 2025 17:05
 Operator : SY/MD
 Sample : Q2794-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Aug 14 02:18:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	130086	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	394015	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	342698	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	259097	10.081	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	8432	0.442	ppbv	98
3) Chlorodifluoromethane	1.470	51	257937	12.240	ppbv #	60
4) Chloromethane	1.534	50	4329	0.563	ppbv	97
6) Bromomethane	1.670	94	173	0.057	ppbv #	18
7) Chloroethane	1.495	64	937	0.317	ppbv #	65
8) Dichlorotetrafluoroethane	1.557	85	433	0.028	ppbv #	66
9) Propene	1.890	41	51959	5.709	ppbv	93
10) Heptane	4.997	43	18392	0.755	ppbv #	26
11) Trichlorofluoromethane	1.881	101	3908	0.208	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	2.143	101	1146	0.076	ppbv #	78
13) Ethanol	1.728	45	1138122	1367.693	ppbv	94
15) Acetone	1.839	43	551685	32.060	ppbv	100
16) 1,3-Butadiene	1.602	39	2552	0.327	ppbv #	58
17) tert-Butyl alcohol	1.890	59	23403	1.147	ppbv	99
19) Isopropyl Alcohol	1.890	45	614099	59.749	ppbv #	75
20) Methylene Chloride	2.065	84	6907	0.958	ppbv	91
21) Allyl Chloride	2.085	41	1473	0.121	ppbv #	14
22) trans-1,2-Dichloroethene	2.347	96	188	0.025	ppbv #	75
23) Vinyl Acetate	2.463	43	53510	2.262	ppbv #	93
25) Ethyl Acetate	2.845	43	161633	3.881	ppbv #	96
26) Hexane	2.835	57	44914	2.336	ppbv #	37
27) Carbon Disulfide	2.156	76	1327	0.071	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	1936	0.198	ppbv #	48
29) Chloroform	2.855	83	7860	0.286	ppbv #	82
30) Cyclohexane	3.868	84	17522	1.040	ppbv	97
34) 2-Butanone	2.567	43	24547	0.923	ppbv	98
35) Carbon Tetrachloride	3.781	117	829	0.031	ppbv #	68
36) Benzene	3.667	78	46541	1.234	ppbv	95
37) 1,2-Dichloroethane	3.230	62	3634	0.184	ppbv	99
39) 1,2-Dichloropropane	3.971	63	49350	3.581	ppbv #	27
41) Tetrahydrofuran	3.075	42	2268	0.153	ppbv #	79
42) Bromodichloromethane	4.502	83	932	0.032	ppbv #	28
43) Methyl Methacrylate	4.900	69	6084	0.391	ppbv #	62
44) 2,2,4-Trimethylpentane	4.658	57	144106	2.250	ppbv #	89
50) 4-Methyl-2-Pentanone	5.787	43	3680	0.102	ppbv #	43
51) 2-Hexanone	7.448	43	1508	0.053	ppbv #	27
53) Toluene	6.949	91	490532	10.936	ppbv	98
58) Ethyl Benzene	9.367	91	98450	1.628	ppbv	100
59) m/p-Xylene	9.542	91	247723	5.226	ppbv #	100
60) o-Xylene	9.972	91	96410	2.022	ppbv	100
61) Styrene	9.885	104	3722	0.167	ppbv #	91
62) Isopropylbenzene	10.548	105	8044	0.115	ppbv	97
64) n-propylbenzene	10.995	120	6276	0.353	ppbv	96

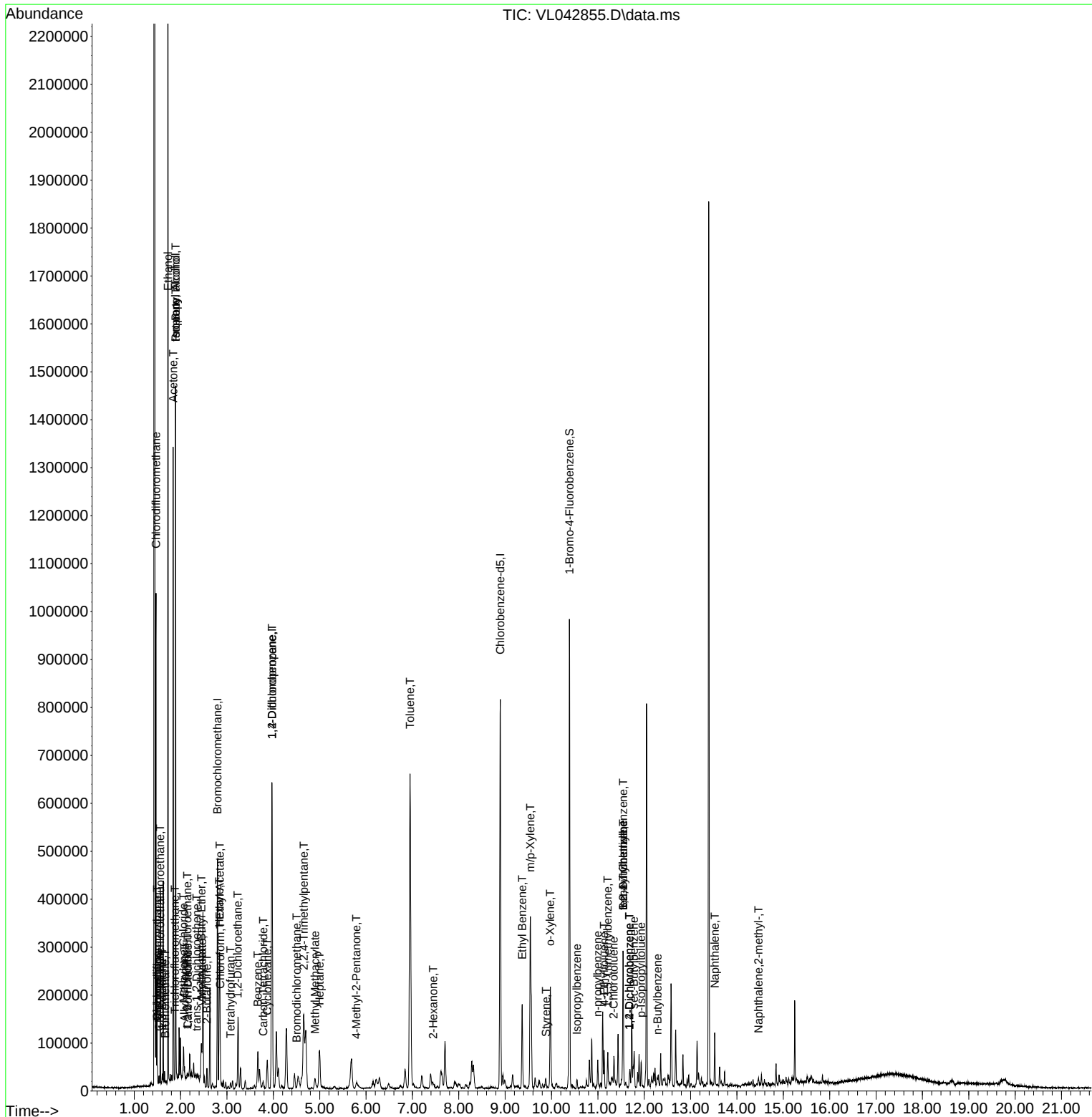
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 Data File : VL042855.D
 Acq On : 13 Aug 2025 17:05
 Operator : SY/MD
 Sample : Q2794-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

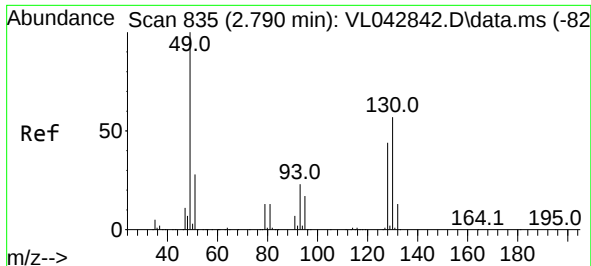
Instrument :
 MSVOA_L
 ClientSampleId :
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Quant Time: Aug 14 02:18:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) tert-Butylbenzene	11.545	119	11694	0.190	ppbv #	58
66) Benzyl Chloride	11.545	91	12914	1.656	ppbv #	65
67) sec-Butylbenzene	11.778	105	2365	0.027	ppbv	94
69) p-Isopropyltoluene	11.934	119	18753	0.253	ppbv	96
70) n-Butylbenzene	12.290	91	5167	0.070	ppbv #	54
71) 2-Chlorotoluene	11.341	91	2145	0.040	ppbv	73
72) 4-Ethyltoluene	11.134	105	31067	0.537	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.212	105	23528	0.479	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	99976	1.853	ppbv #	57
76) 1,4-Dichlorobenzene	11.681	146	4557	0.147	ppbv	88
77) 1,2-Dichlorobenzene	11.681	146	4557	0.152	ppbv	90
79) Naphthalene	13.520	128	49732	1.017	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	3925	0.215	ppbv	96

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

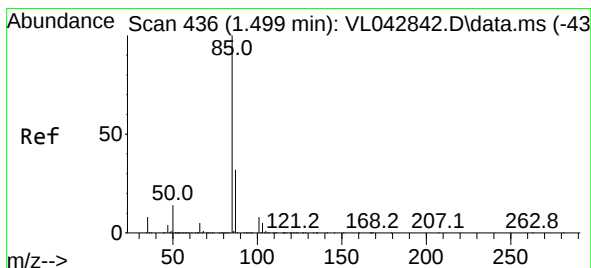
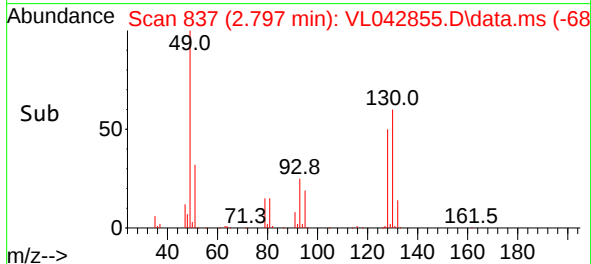
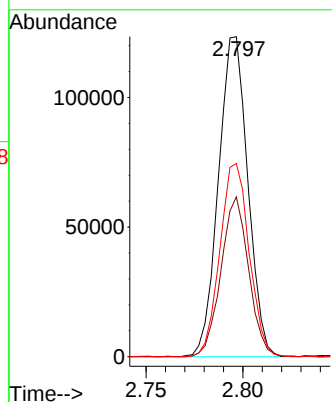
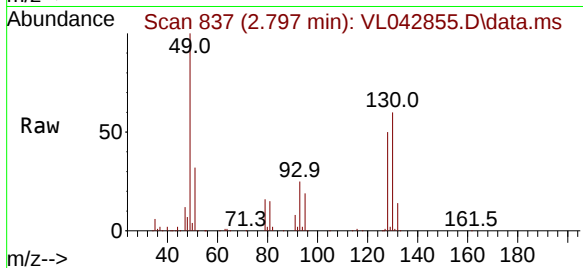




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 835
 Delta R.T. 0.007 min
 Lab File: VL042855.D
 Acq: 13 Aug 2025 17:05

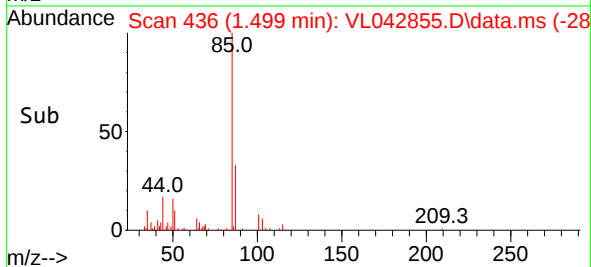
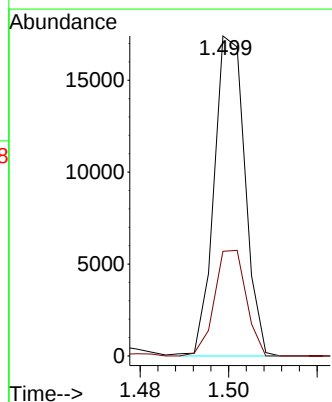
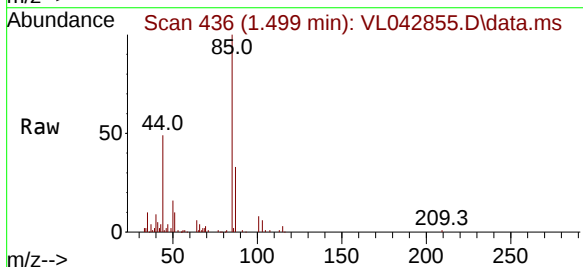
Instrument :
 MSVOA_L
 ClientSampleId :
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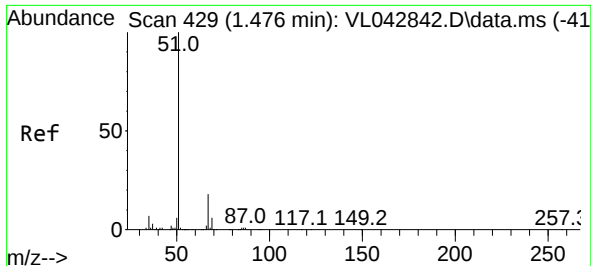
Tgt Ion: 49 Resp: 130086
 Ion Ratio Lower Upper
 49 100
 128 47.0 23.7 71.1
 130 60.2 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.442 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042855.D
 Acq: 13 Aug 2025 17:05

Tgt Ion: 85 Resp: 8432
 Ion Ratio Lower Upper
 85 100
 87 32.7 25.3 37.9

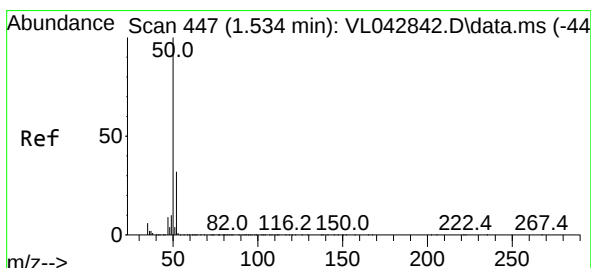
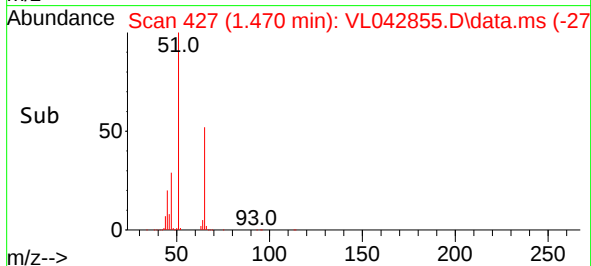
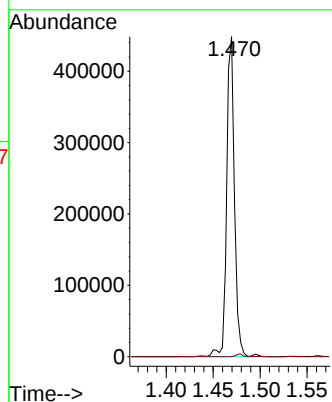
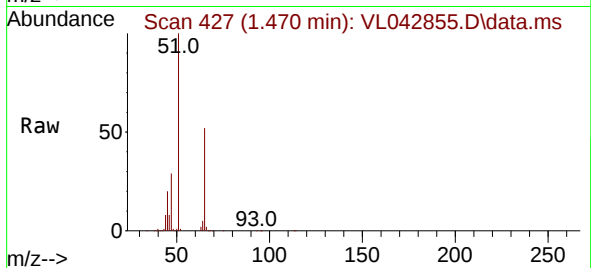




#3
Chlorodifluoromethane
Concen: 12.240 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

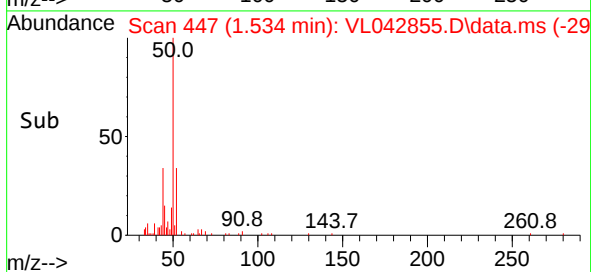
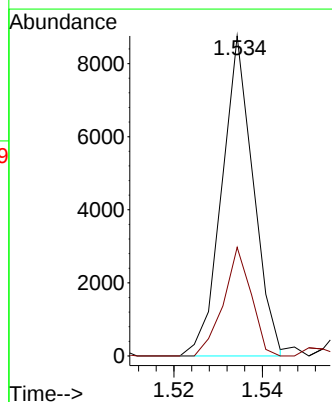
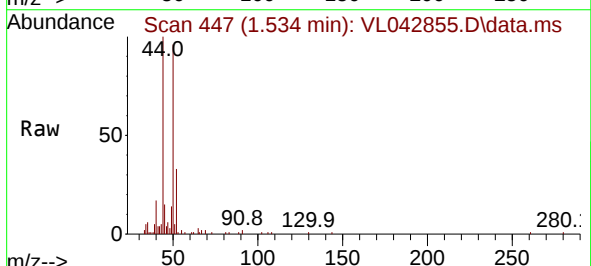
Instrument :
MSVOA_L
ClientSampleId :
IA1

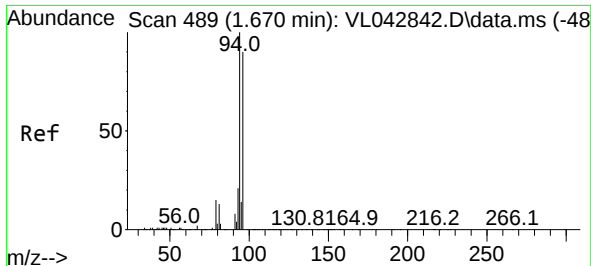
Tgt Ion: 51 Resp: 257937
Ion Ratio Lower Upper
51 100
67 0.7 14.9 22.3#



#4
Chloromethane
Concen: 0.563 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 50 Resp: 4329
Ion Ratio Lower Upper
50 100
52 33.9 25.9 38.9

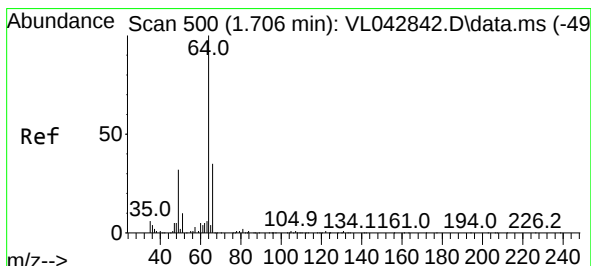
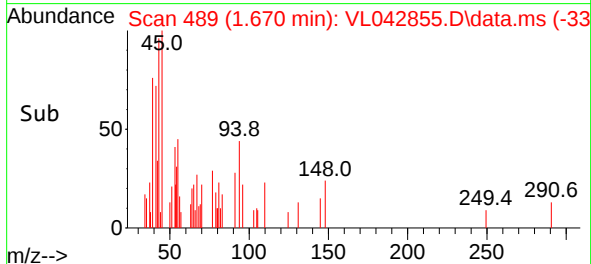
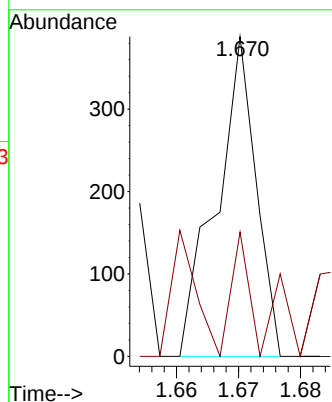
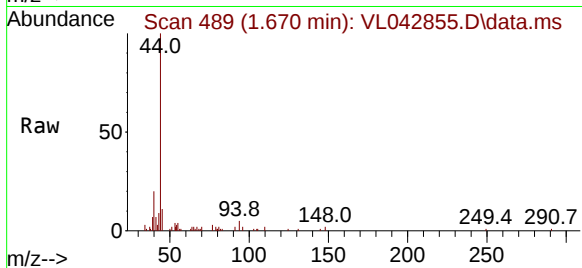




#6
Bromomethane
Concen: 0.057 ppbv
RT: 1.670 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

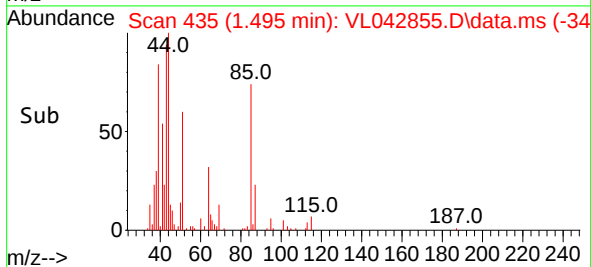
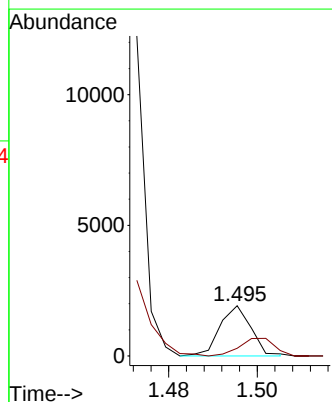
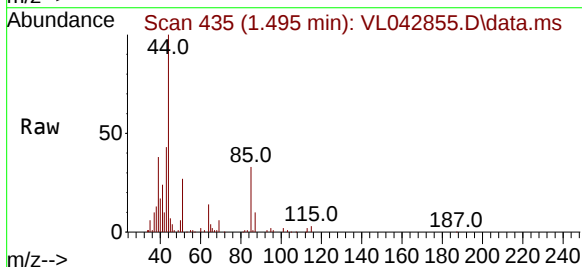
Instrument :
MSVOA_L
ClientSampleId :
IA1

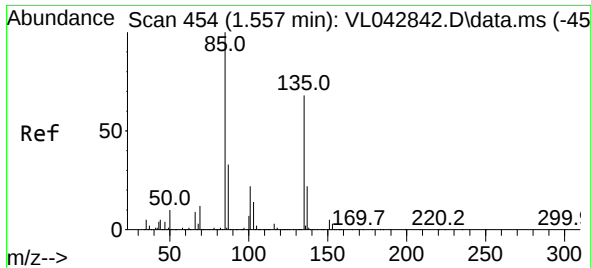
Tgt Ion: 94 Resp: 173
Ion Ratio Lower Upper
94 100
96 13.1 72.1 108.1#



#7
Chloroethane
Concen: 0.317 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.211 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 64 Resp: 937
Ion Ratio Lower Upper
64 100
66 15.3 28.6 42.8#

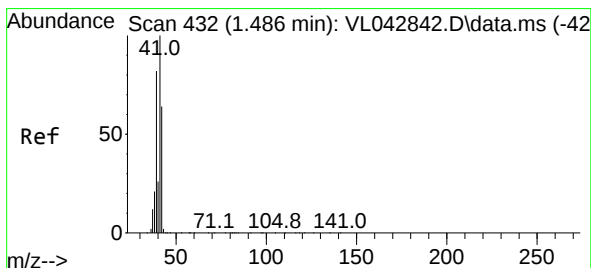
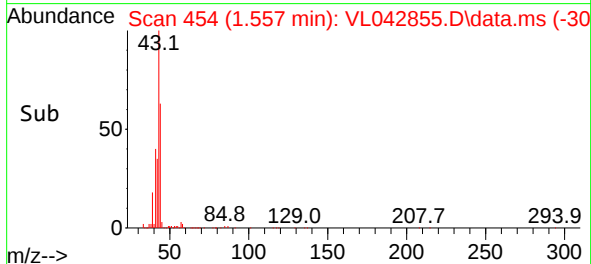
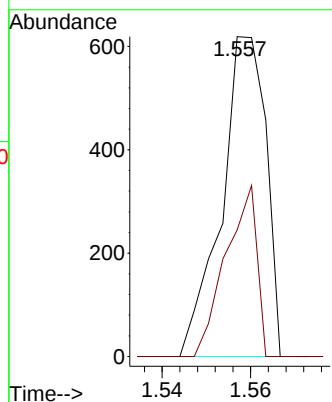
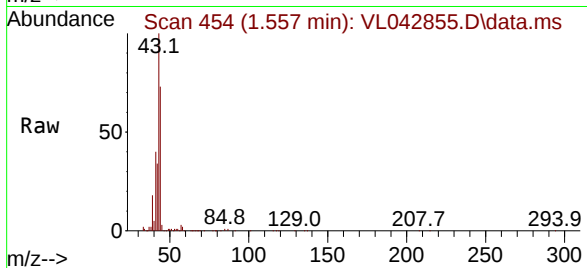




#8
 Dichlorotetrafluoroethane
 Concen: 0.028 ppbv
 RT: 1.557 min Scan# 411
 Delta R.T. -0.000 min
 Lab File: VL042855.D
 Acq: 13 Aug 2025 17:05

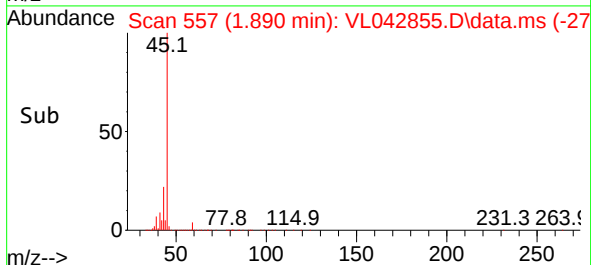
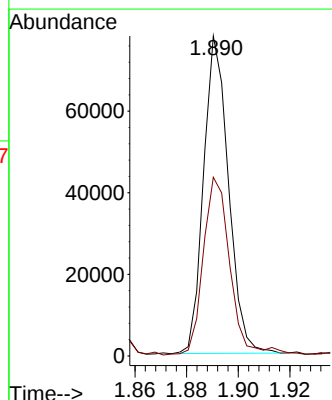
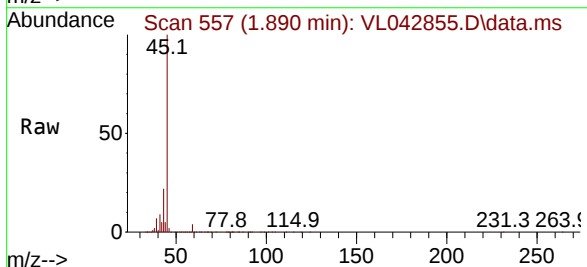
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 ClientSampleId :
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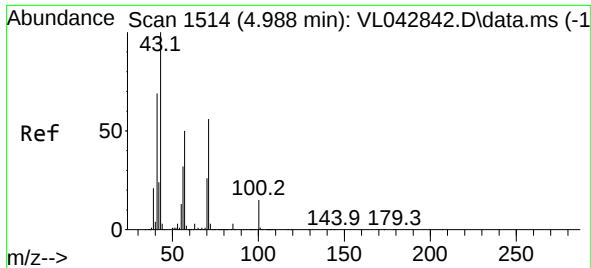
Tgt Ion: 85 Resp: 433
 Ion Ratio Lower Upper
 85 100
 135 37.2 51.2 76.8#



#9
 Propene
 Concen: 5.709 ppbv
 RT: 1.890 min Scan# 557
 Delta R.T. 0.404 min
 Lab File: VL042855.D
 Acq: 13 Aug 2025 17:05

Tgt Ion: 41 Resp: 51959
 Ion Ratio Lower Upper
 41 100
 42 60.4 53.0 79.4

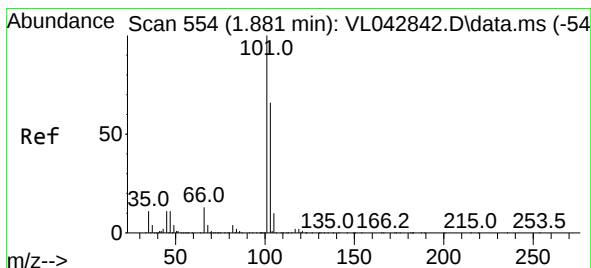
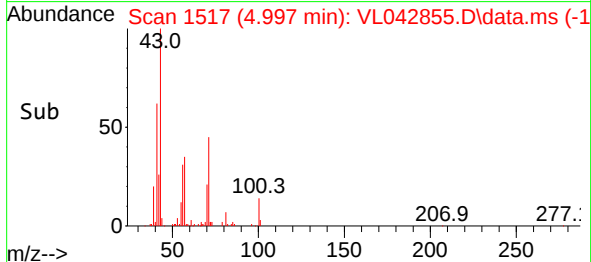
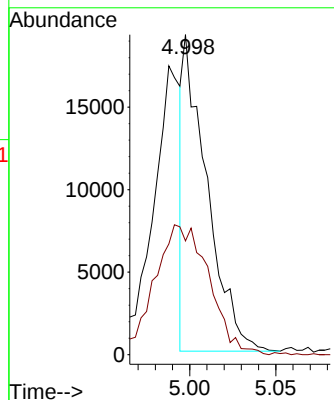
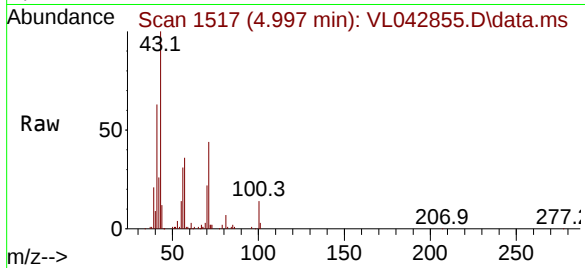




#10
 Heptane
 Concen: 0.755 ppbv
 RT: 4.997 min Scan# 11
 Delta R.T. 0.010 min
 Lab File: VL042855.D
 Acq: 13 Aug 2025 17:05

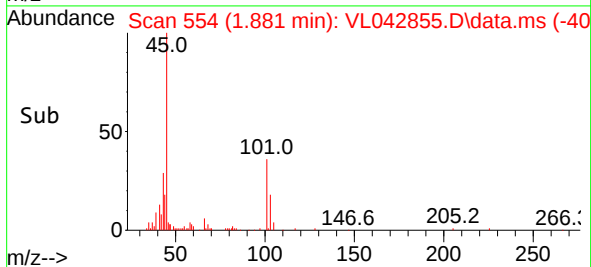
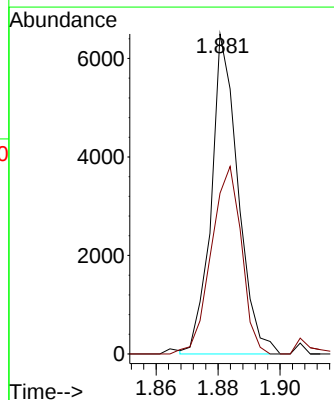
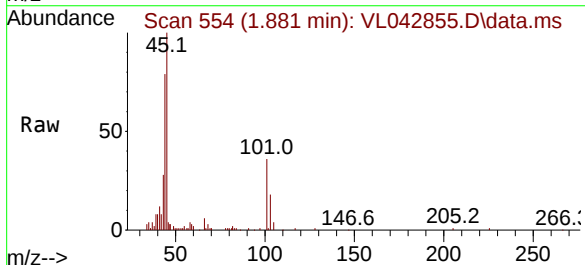
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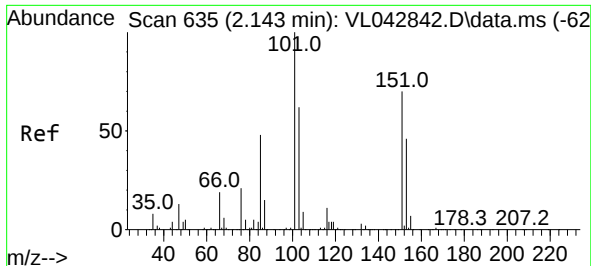
Tgt Ion: 43 Resp: 18392
 Ion Ratio Lower Upper
 43 100
 57 0.0 41.4 62.0#



#11
 Trichlorofluoromethane
 Concen: 0.208 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. -0.000 min
 Lab File: VL042855.D
 Acq: 13 Aug 2025 17:05

Tgt Ion:101 Resp: 3908
 Ion Ratio Lower Upper
 101 100
 103 50.3 52.5 78.7#

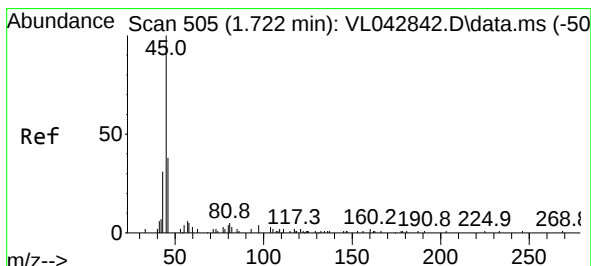
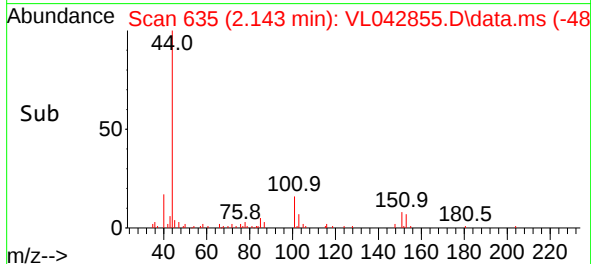
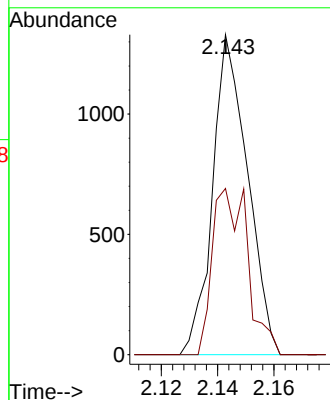
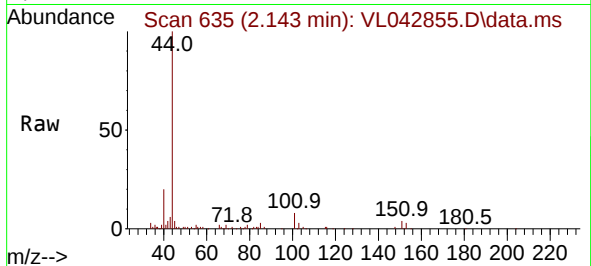




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.143 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

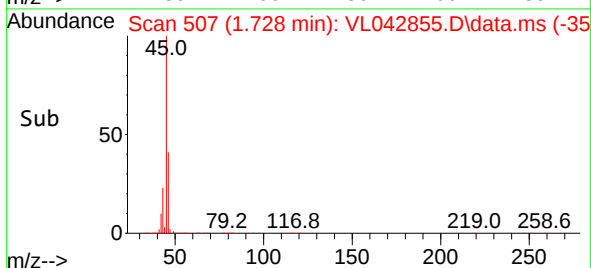
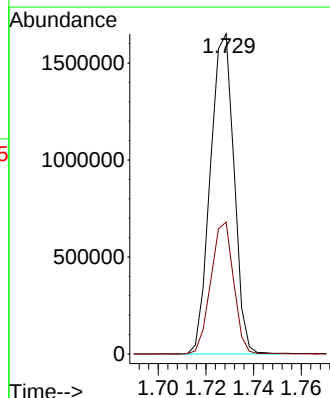
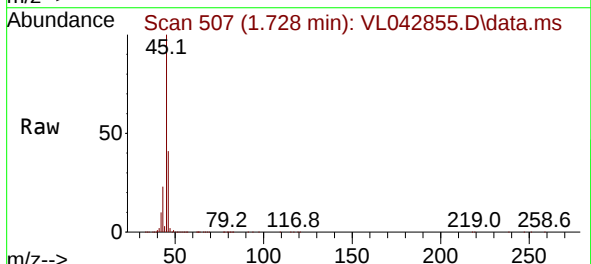
Instrument :
MSVOA_L
ClientSampleId :
IA1

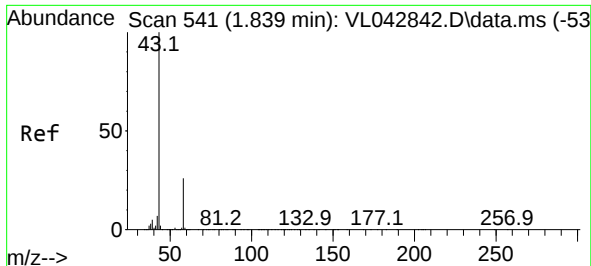
Tgt Ion:101 Resp: 1146
Ion Ratio Lower Upper
101 100
151 52.4 56.4 84.6#



#13
Ethanol
Concen: 1367.693 ppbv
RT: 1.728 min Scan# 507
Delta R.T. 0.006 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 45 Resp: 1138122
Ion Ratio Lower Upper
45 100
46 39.8 17.5 69.9

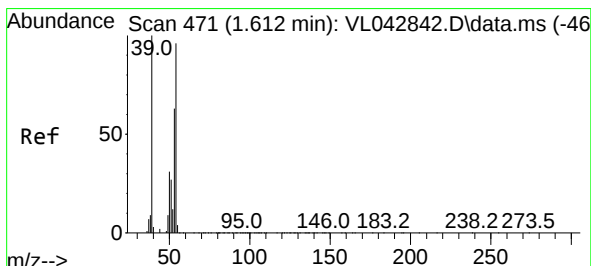
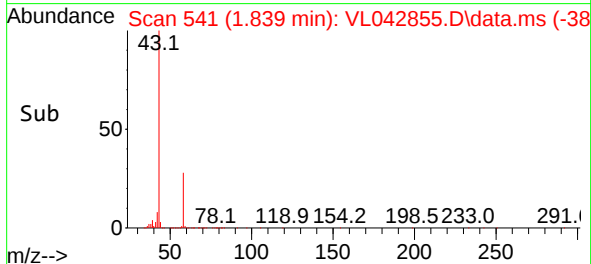
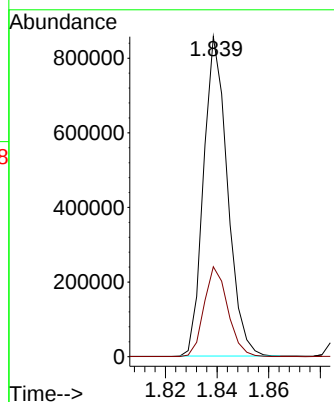
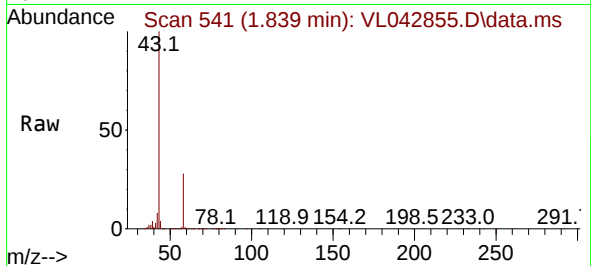




#15
Acetone
Concen: 32.060 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

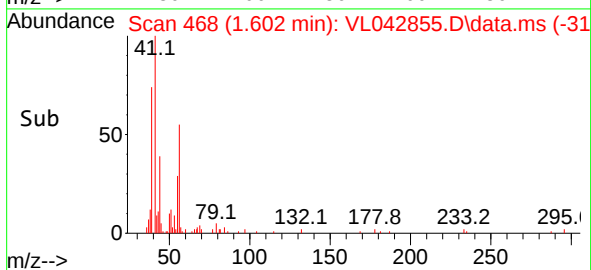
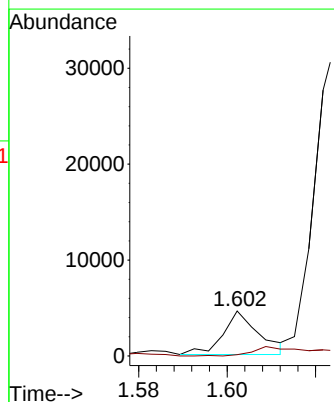
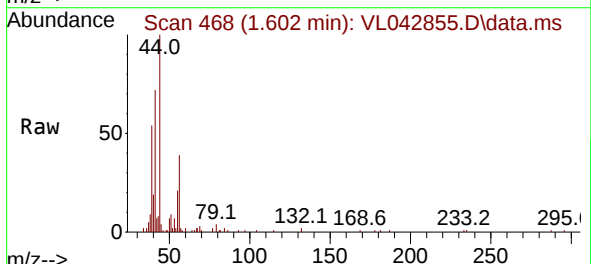
Instrument :
MSVOA_L
ClientSampleId :
IA1

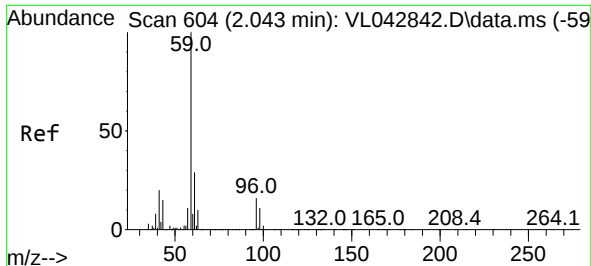
Tgt Ion: 43 Resp: 551685
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#16
1,3-Butadiene
Concen: 0.327 ppbv
RT: 1.602 min Scan# 468
Delta R.T. -0.010 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 39 Resp: 2552
Ion Ratio Lower Upper
39 100
54 42.8 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 1.147 ppbv

RT: 1.890 min Scan# 557

Delta R.T. -0.152 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

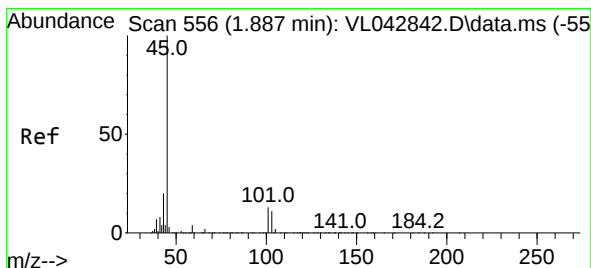
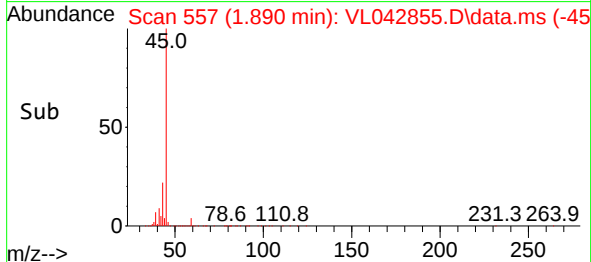
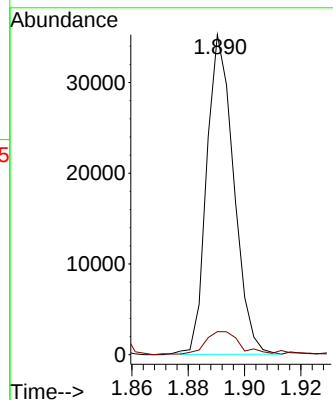
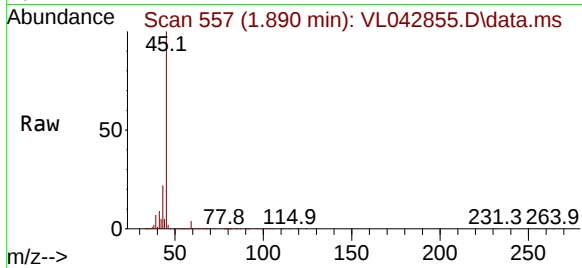
IA1

Tgt Ion: 59 Resp: 23403

Ion Ratio Lower Upper

59 100

57 10.7 9.0 13.4



#19

Isopropyl Alcohol

Concen: 59.749 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.003 min

Lab File: VL042855.D

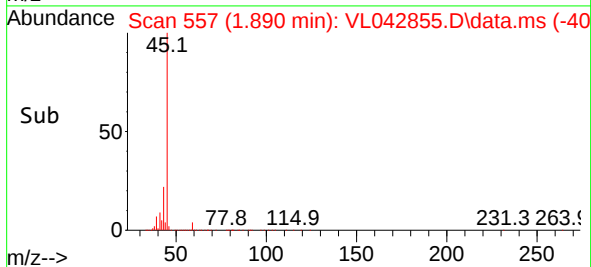
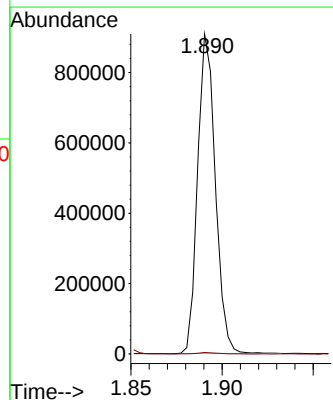
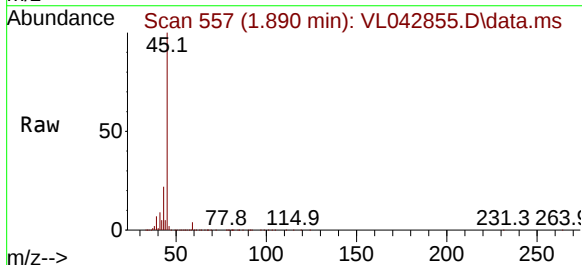
Acq: 13 Aug 2025 17:05

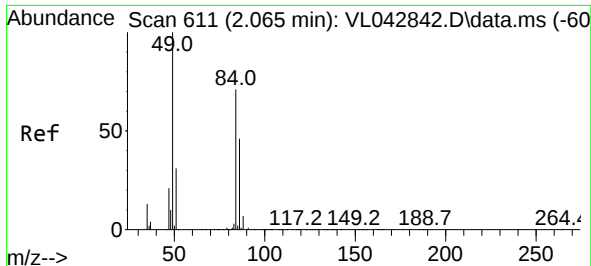
Tgt Ion: 45 Resp: 614099

Ion Ratio Lower Upper

45 100

58 25.1 32.7 49.1#

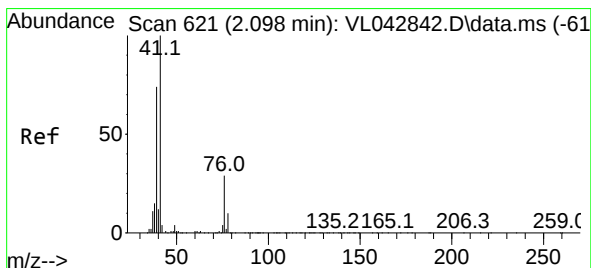
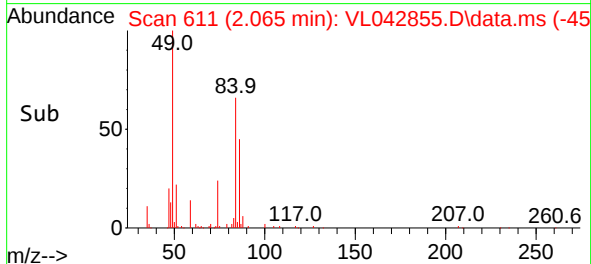
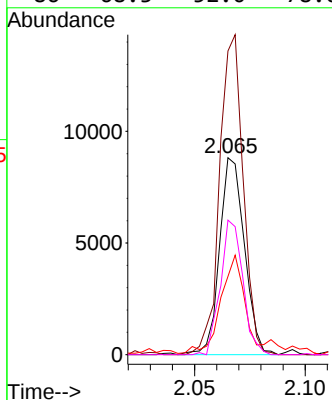
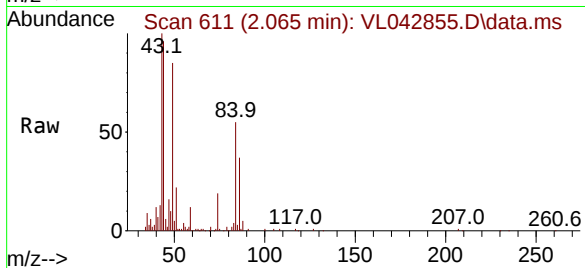




#20
Methylene Chloride
Concen: 0.958 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

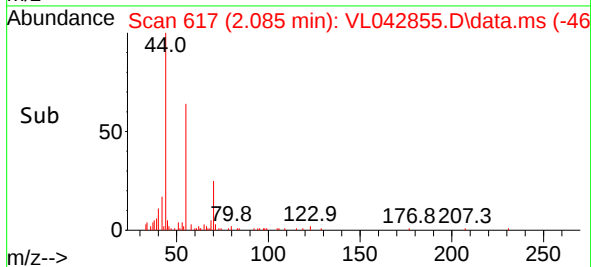
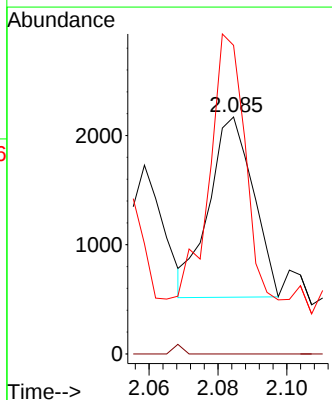
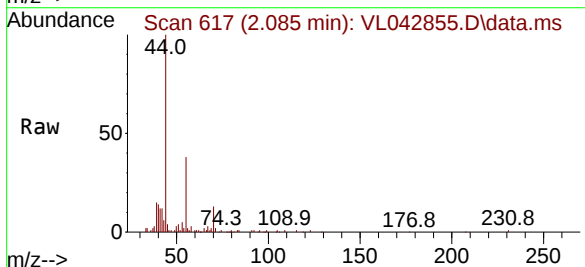
Instrument :
MSVOA_L
ClientSampleId :
IA1

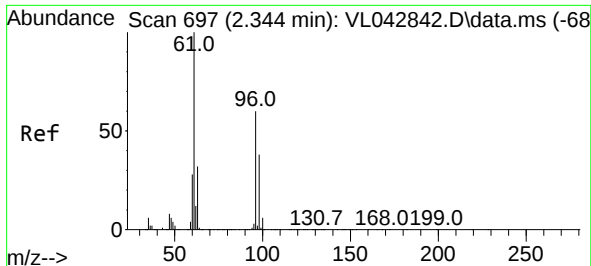
Tgt Ion:	84	Resp:	6907
Ion	Ratio	Lower	Upper
84	100		
49	154.1	112.3	168.5
51	39.1	36.0	54.0
86	68.3	52.0	78.0



#21
Allyl Chloride
Concen: 0.121 ppbv
RT: 2.085 min Scan# 617
Delta R.T. -0.013 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion:	41	Resp:	1473
Ion	Ratio	Lower	Upper
41	100		
76	90.3	23.9	35.9#
39	135.6	57.8	86.6#

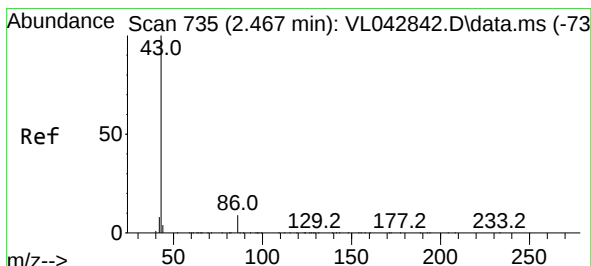
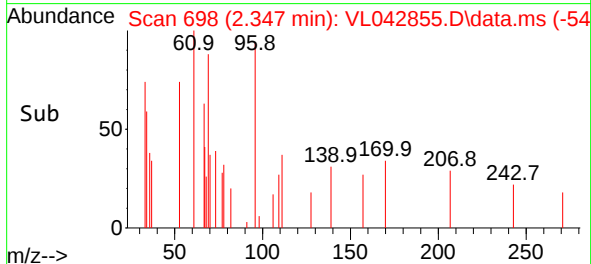
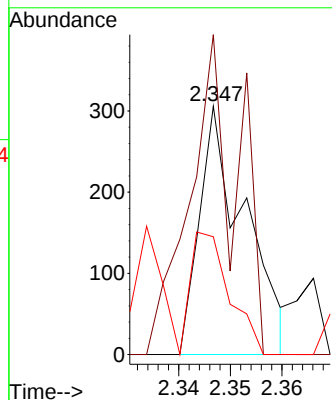
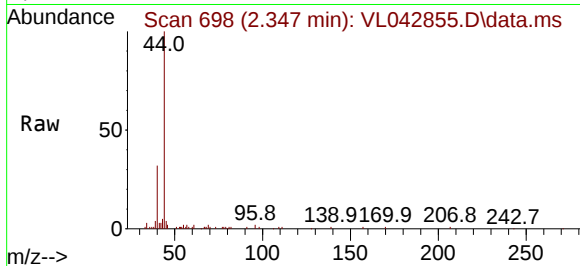




#22
trans-1,2-Dichloroethene
Concen: 0.025 ppbv
RT: 2.347 min Scan# 697
Delta R.T. 0.003 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

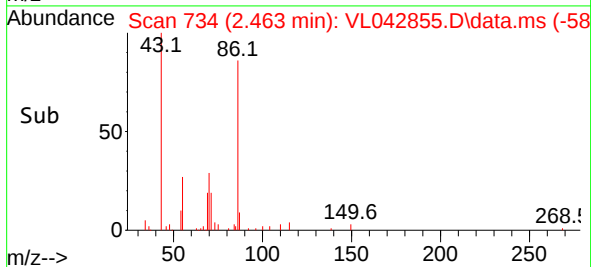
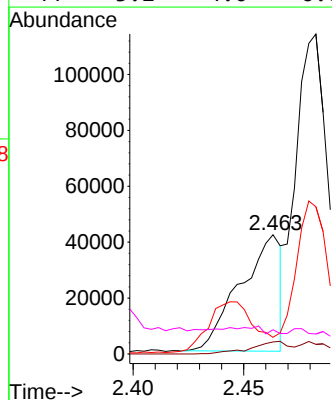
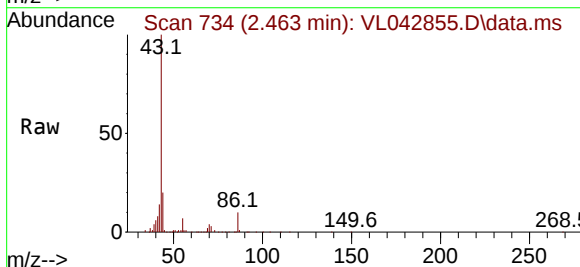
Instrument :
MSVOA_L
ClientSampleId :
IA1

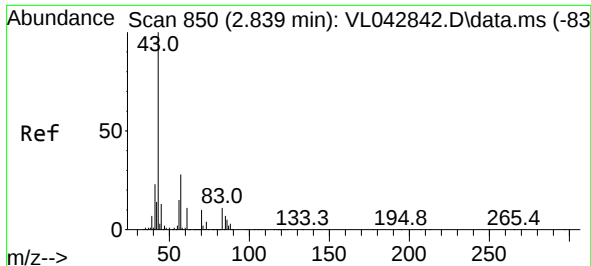
Tgt Ion: 96 Resp: 188
Ion Ratio Lower Upper
96 100
61 128.8 132.6 199.0#
98 47.4 50.0 75.0#



#23
Vinyl Acetate
Concen: 2.262 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.003 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 43 Resp: 53510
Ion Ratio Lower Upper
43 100
86 10.3 6.6 9.8#
42 12.1 7.0 10.6#
44 3.2 4.0 6.0#





#25

Ethyl Acetate

Concen: 3.881 ppbv

RT: 2.845 min Scan# 8

Delta R.T. 0.006 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 43 Resp: 161633

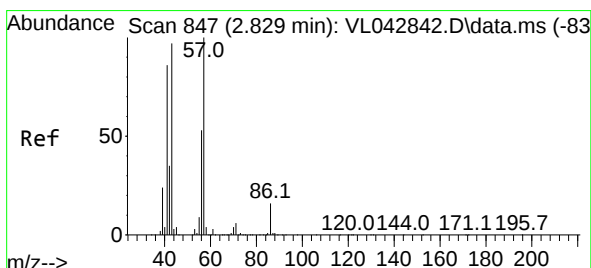
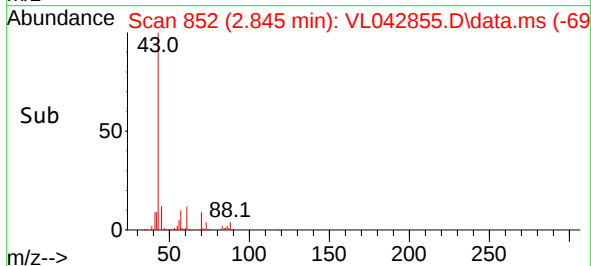
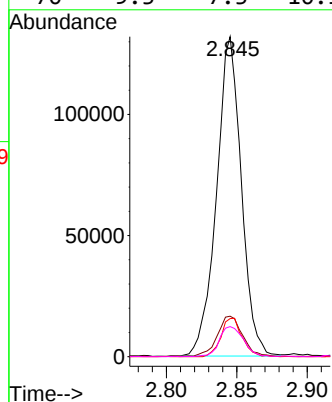
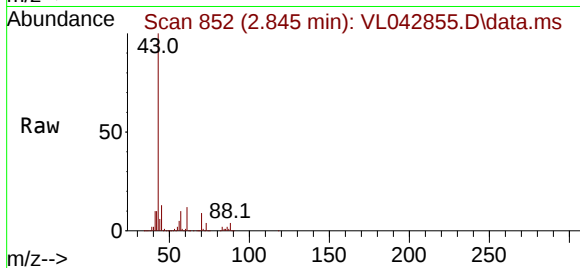
Ion Ratio Lower Upper

43 100

45 13.0 8.1 12.1#

61 10.4 7.4 11.2

70 9.3 7.3 10.9



#26

Hexane

Concen: 2.336 ppbv

RT: 2.835 min Scan# 849

Delta R.T. 0.006 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Tgt Ion: 57 Resp: 44914

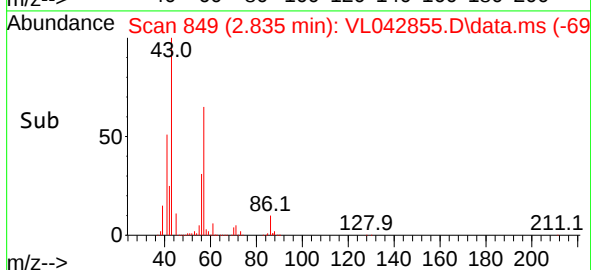
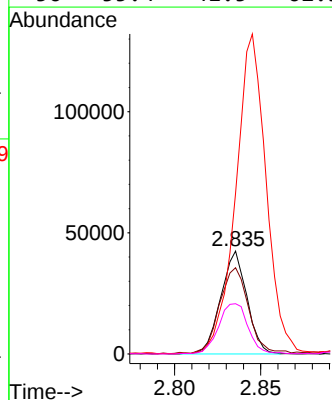
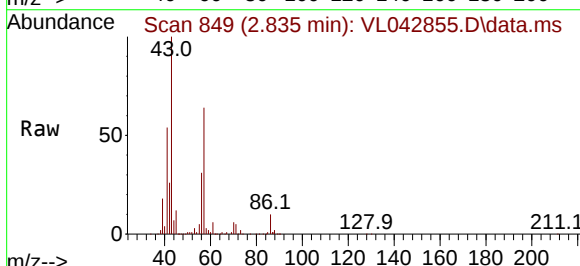
Ion Ratio Lower Upper

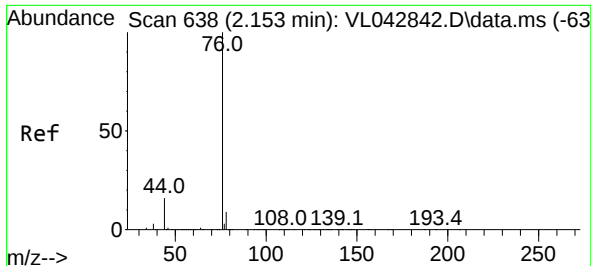
57 100

41 94.0 68.6 103.0

43 365.3 168.5 252.7#

56 55.4 41.5 62.3





#27

Carbon Disulfide

Concen: 0.071 ppbv

RT: 2.156 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

IA1

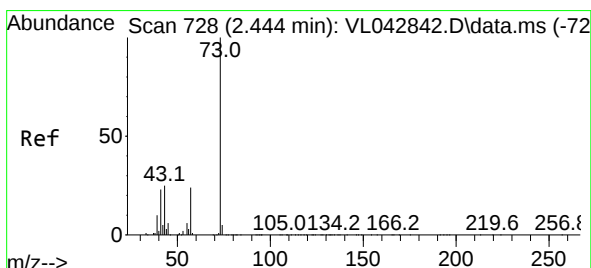
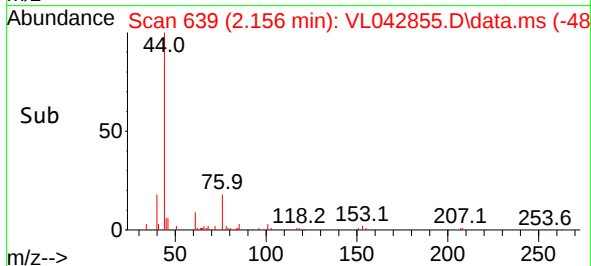
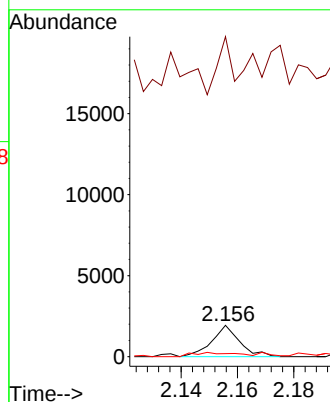
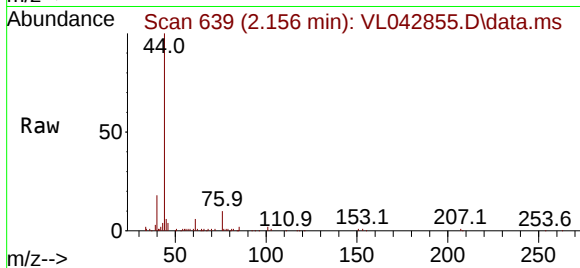
Tgt Ion: 76 Resp: 1327

Ion Ratio Lower Upper

76 100

44 440.7 15.9 23.9#

78 28.3 9.5 14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.198 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.003 min

Lab File: VL042855.D

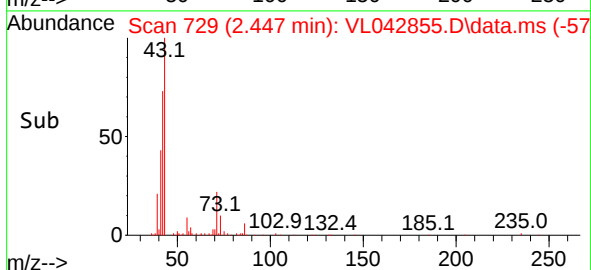
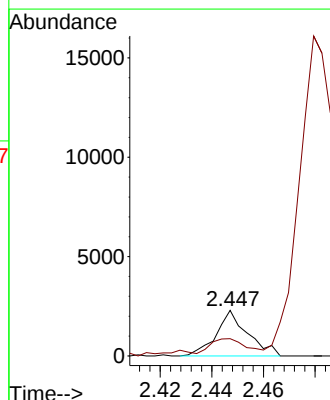
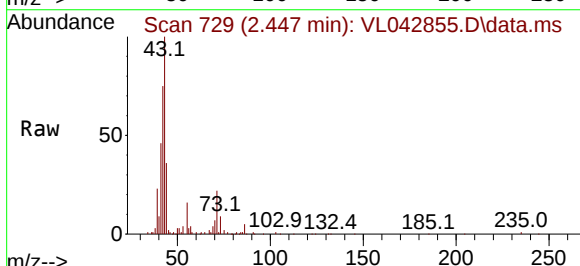
Acq: 13 Aug 2025 17:05

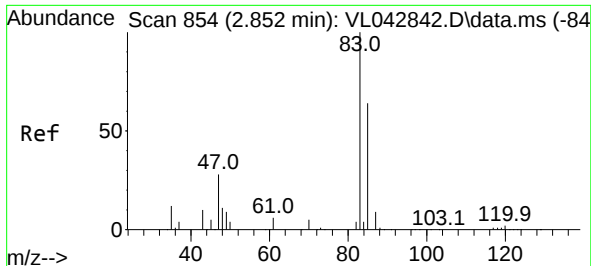
Tgt Ion: 73 Resp: 1936

Ion Ratio Lower Upper

73 100

57 0.0 21.6 32.4#





#29

Chloroform

Concen: 0.286 ppbv

RT: 2.855 min Scan# 8

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

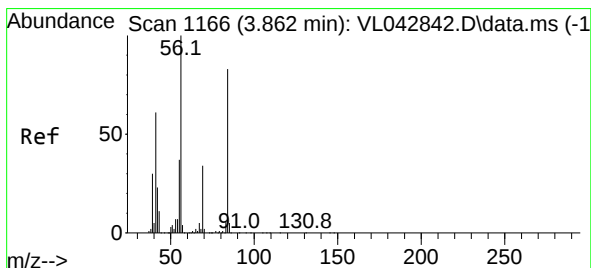
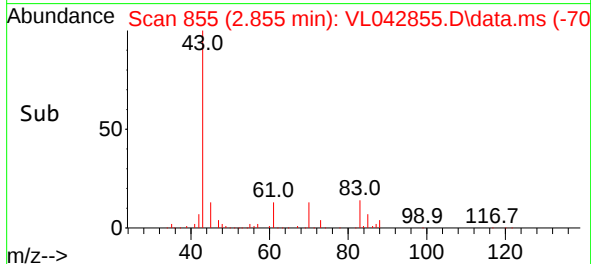
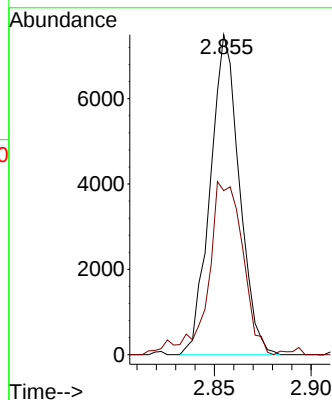
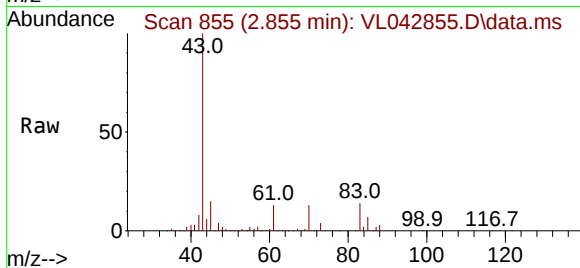
IA1

Tgt Ion: 83 Resp: 7860

Ion Ratio Lower Upper

83 100

85 50.1 51.1 76.7#



#30

Cyclohexane

Concen: 1.040 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

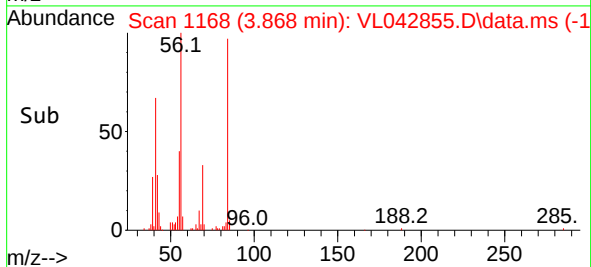
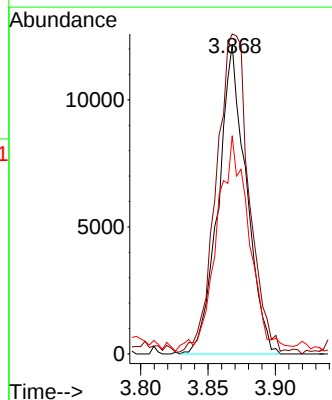
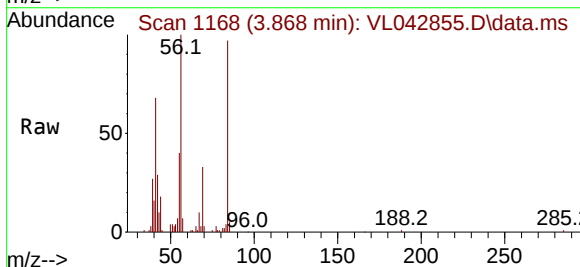
Tgt Ion: 84 Resp: 17522

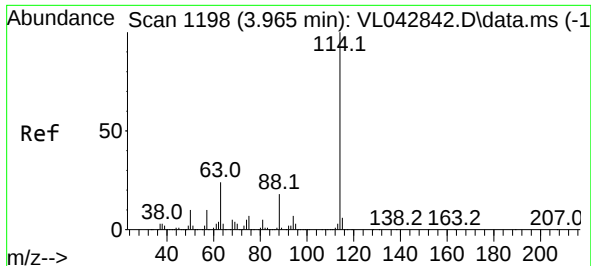
Ion Ratio Lower Upper

84 100

56 122.8 98.8 148.2

41 82.2 61.3 91.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.971 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

IA1

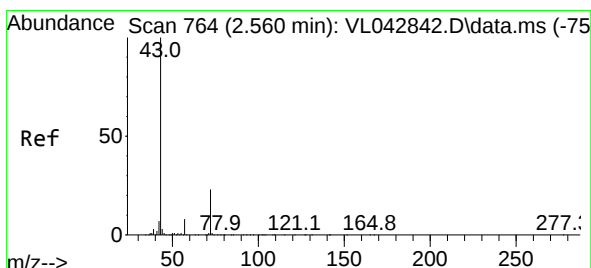
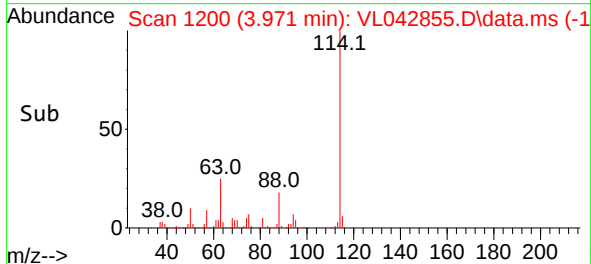
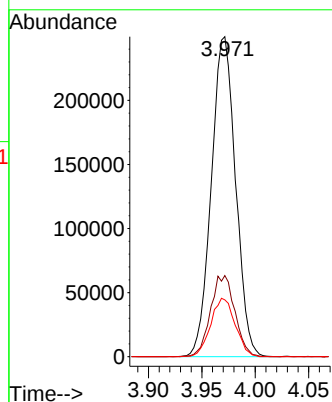
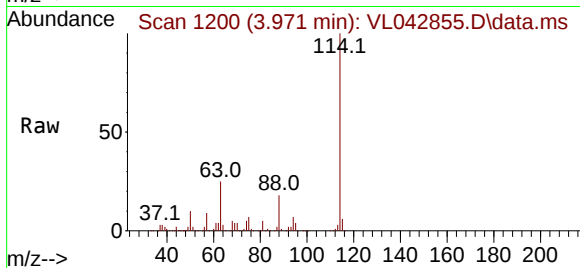
Tgt Ion:114 Resp: 394015

Ion Ratio Lower Upper

114 100

63 25.5 19.7 29.5

88 18.5 14.4 21.6



#34

2-Butanone

Concen: 0.923 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042855.D

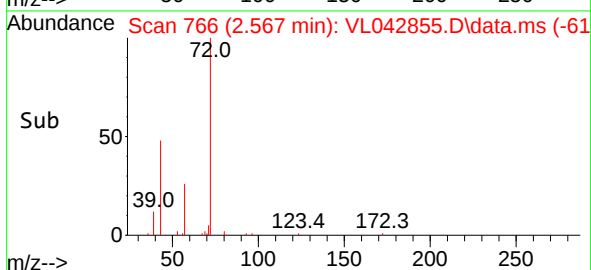
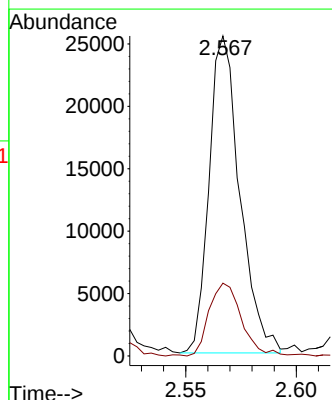
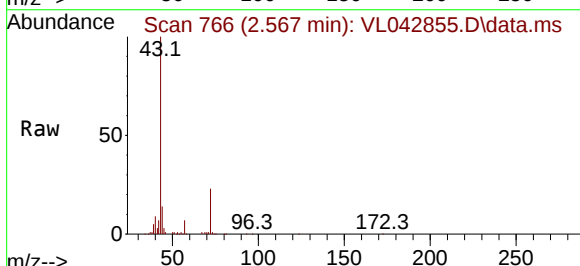
Acq: 13 Aug 2025 17:05

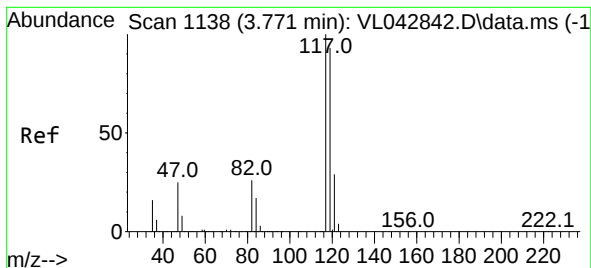
Tgt Ion: 43 Resp: 24547

Ion Ratio Lower Upper

43 100

72 24.4 18.6 28.0





#35

Carbon Tetrachloride

Concen: 0.031 ppbv

RT: 3.781 min Scan# 1138

Delta R.T. 0.010 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

IA1

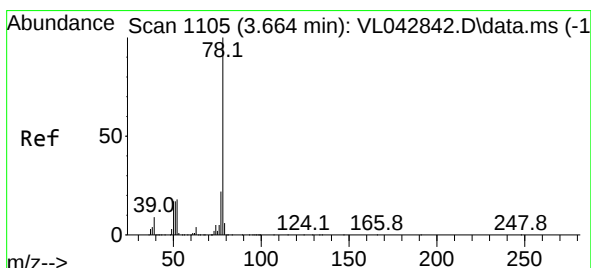
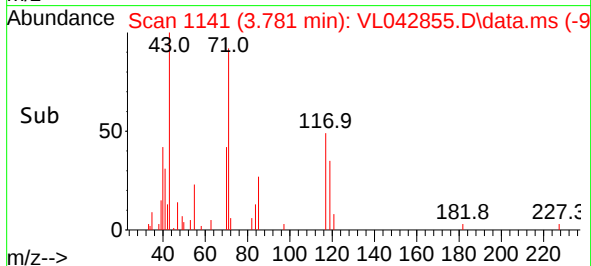
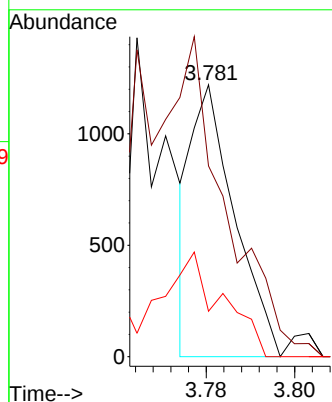
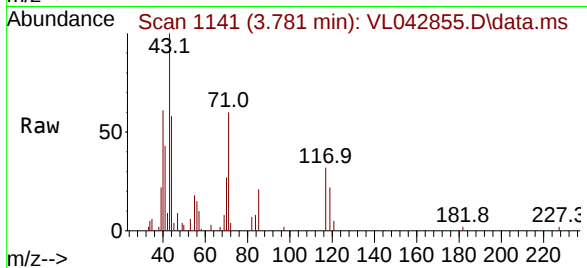
Tgt Ion:117 Resp: 829

Ion Ratio Lower Upper

117 100

119 60.4 74.7 112.1#

121 16.7 23.2 34.8#



#36

Benzene

Concen: 1.234 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

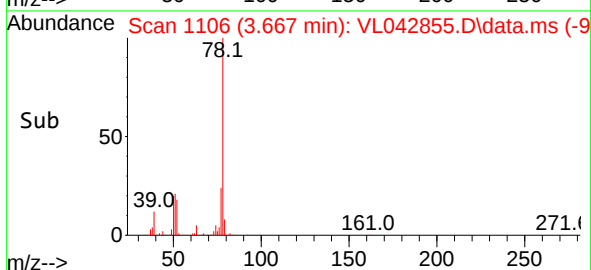
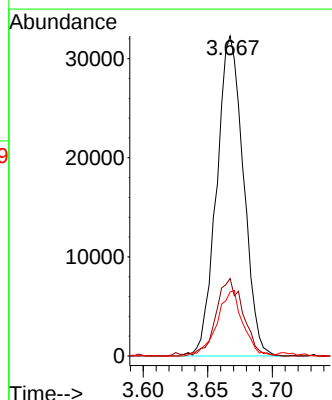
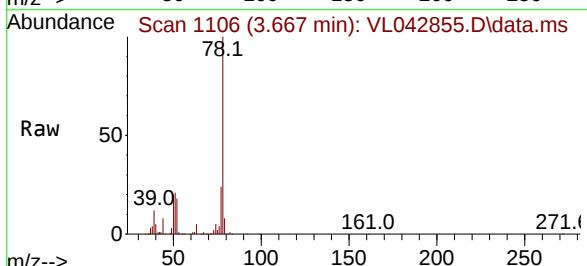
Tgt Ion: 78 Resp: 46541

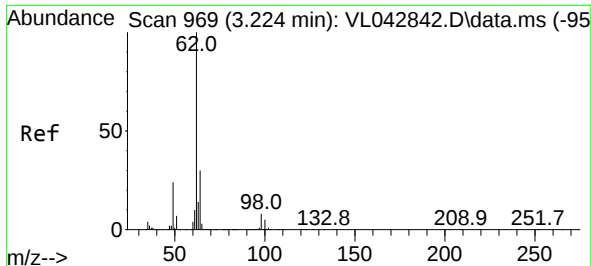
Ion Ratio Lower Upper

78 100

77 24.0 17.7 26.5

50 20.0 13.9 20.9





#37

1,2-Dichloroethane

Concen: 0.184 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

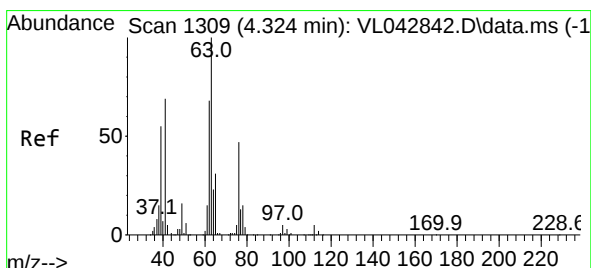
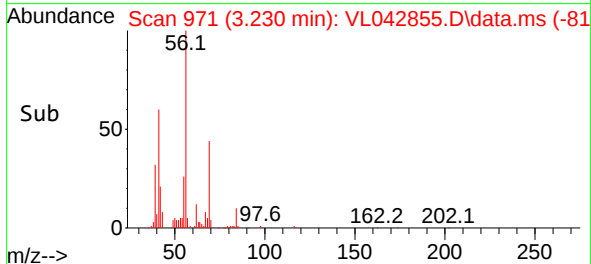
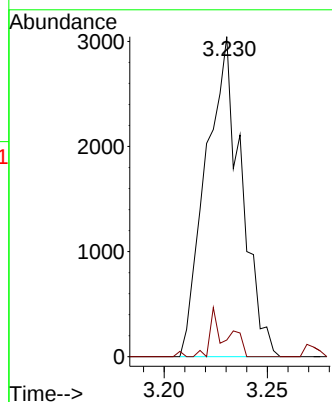
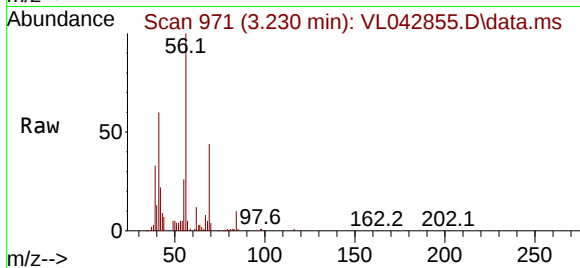
IA1

Tgt Ion: 62 Resp: 3634

Ion Ratio Lower Upper

62 100

98 7.1 5.9 8.9



#39

1,2-Dichloropropane

Concen: 3.581 ppbv

RT: 3.971 min Scan# 1200

Delta R.T. -0.353 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

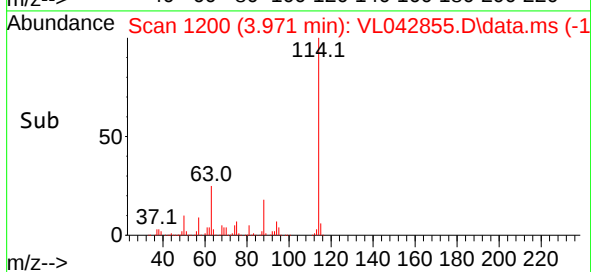
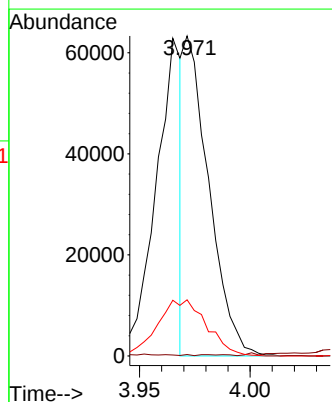
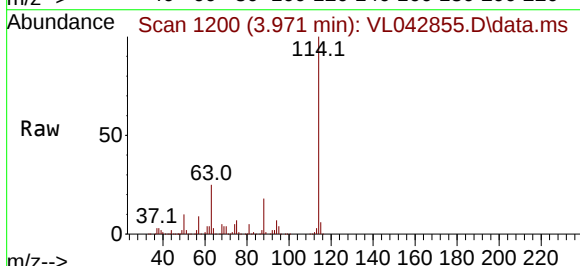
Tgt Ion: 63 Resp: 49350

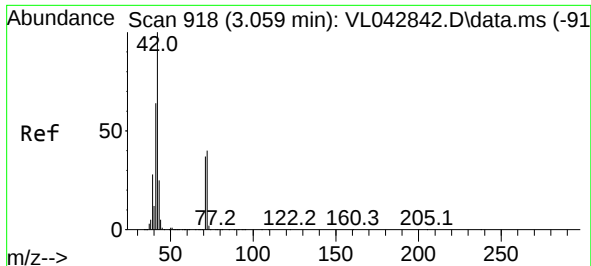
Ion Ratio Lower Upper

63 100

41 0.3 55.0 82.4#

62 17.6 54.4 81.6#

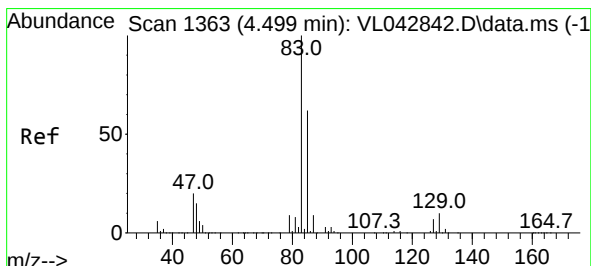
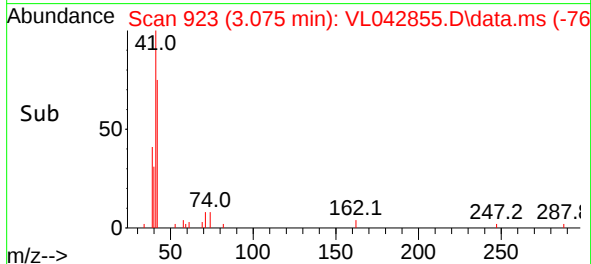
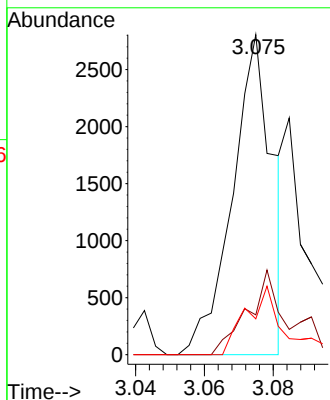
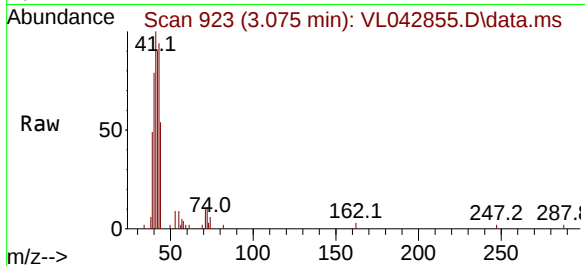




#41
Tetrahydrofuran
Concen: 0.153 ppbv
RT: 3.075 min Scan# 918
Delta R.T. 0.016 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

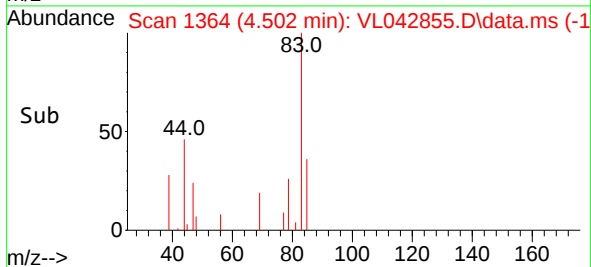
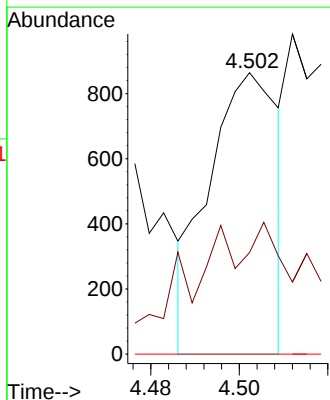
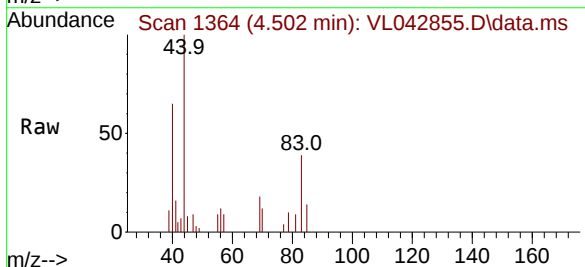
Instrument :
MSVOA_L
ClientSampleId :
IA1

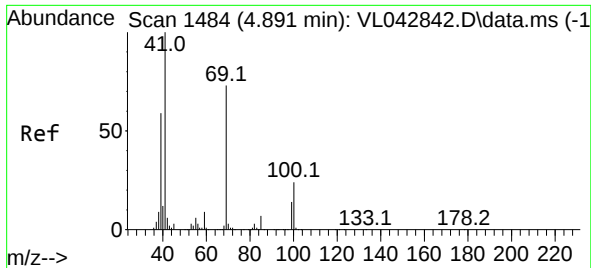
Tgt Ion: 42 Resp: 2268
Ion Ratio Lower Upper
42 100
72 30.8 32.6 48.8#
71 21.6 30.0 45.0#



#42
Bromodichloromethane
Concen: 0.032 ppbv
RT: 4.502 min Scan# 1364
Delta R.T. 0.003 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 83 Resp: 932
Ion Ratio Lower Upper
83 100
85 1.9 49.8 74.8#
127 0.0 5.8 8.6#

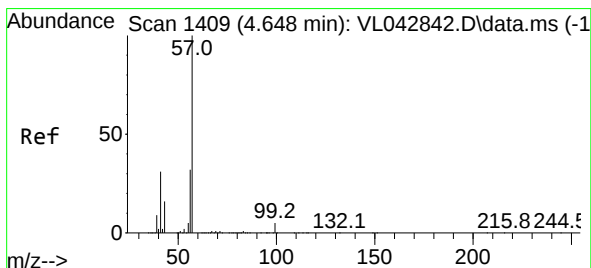
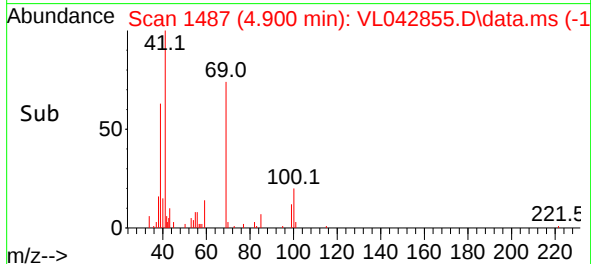
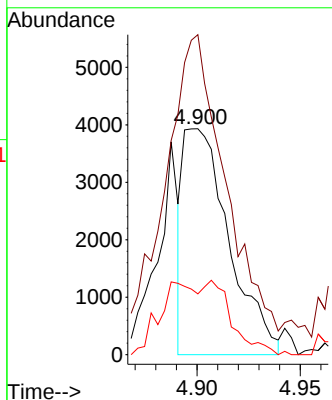
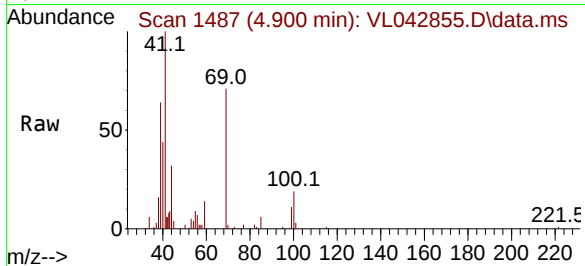




#43
Methyl Methacrylate
Concen: 0.391 ppbv
RT: 4.900 min Scan# 1412
Delta R.T. 0.010 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

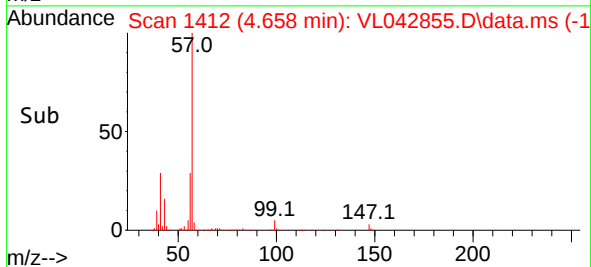
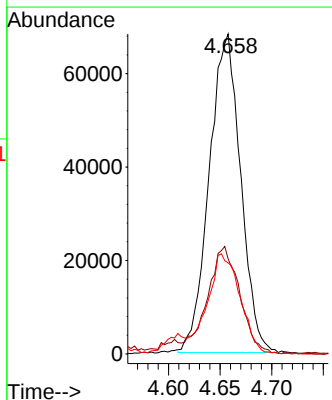
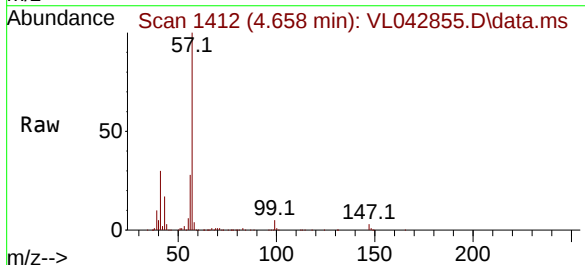
Instrument :
MSVOA_1
ClientSampleId :
IA1

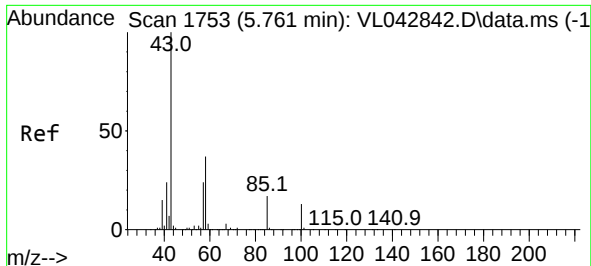
Tgt Ion: 69 Resp: 6084
Ion Ratio Lower Upper
69 100
41 196.9 114.6 172.0#
100 47.1 30.2 45.4#



#44
2,2,4-Trimethylpentane
Concen: 2.250 ppbv
RT: 4.658 min Scan# 1412
Delta R.T. 0.010 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 57 Resp: 144106
Ion Ratio Lower Upper
57 100
41 37.8 24.8 37.2#
56 37.0 25.5 38.3





#50

4-Methyl-2-Pentanone

Concen: 0.102 ppbv

RT: 5.787 min Scan# 1

Delta R.T. 0.026 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

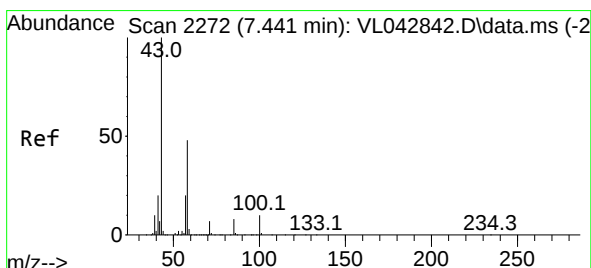
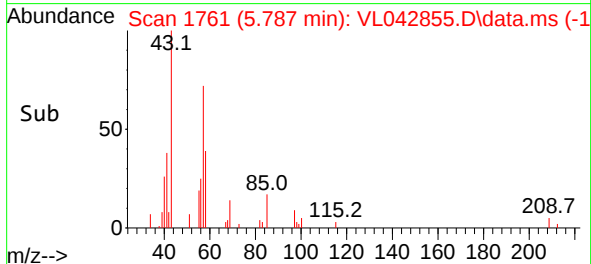
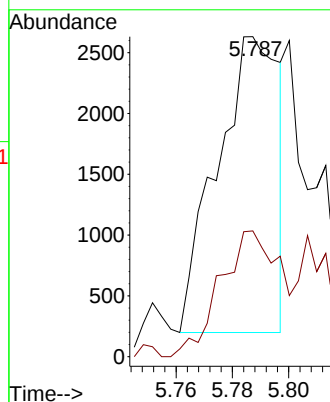
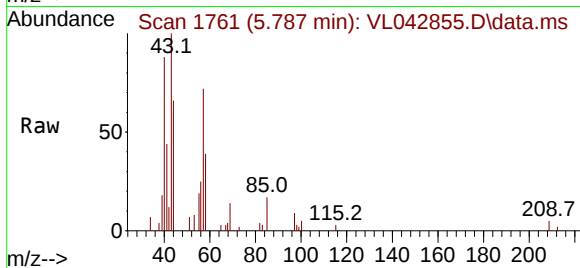
IA1

Tgt Ion: 43 Resp: 3680

Ion Ratio Lower Upper

43 100

58 71.4 29.8 44.8#



#51

2-Hexanone

Concen: 0.053 ppbv

RT: 7.448 min Scan# 2274

Delta R.T. 0.006 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

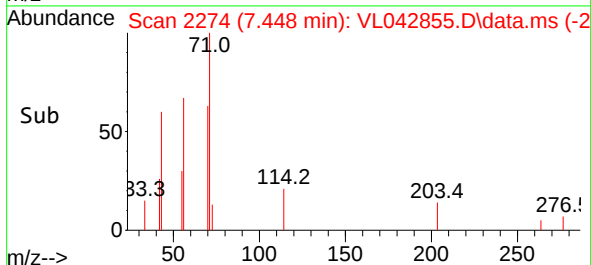
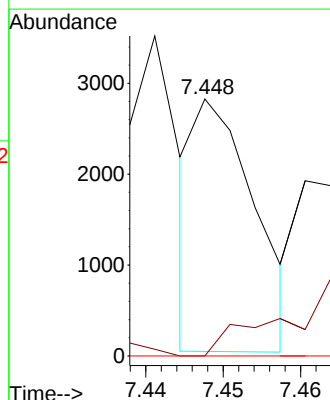
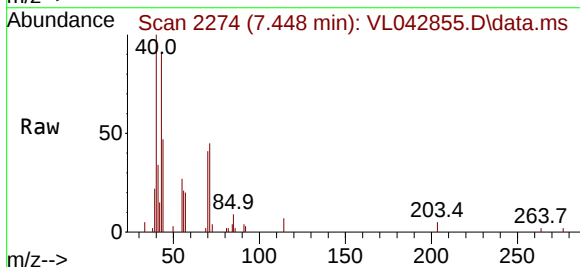
Tgt Ion: 43 Resp: 1508

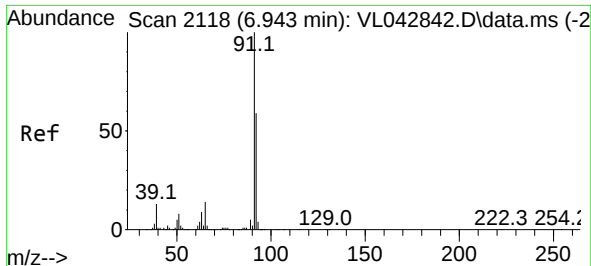
Ion Ratio Lower Upper

43 100

58 0.0 41.0 61.6#

98 0.0 0.1 0.1#

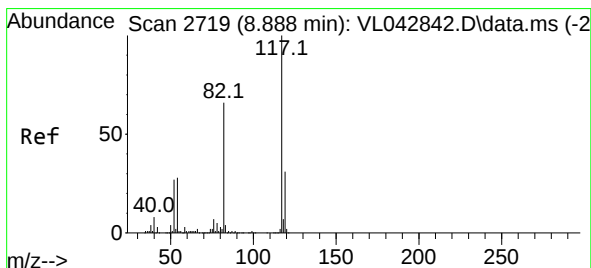
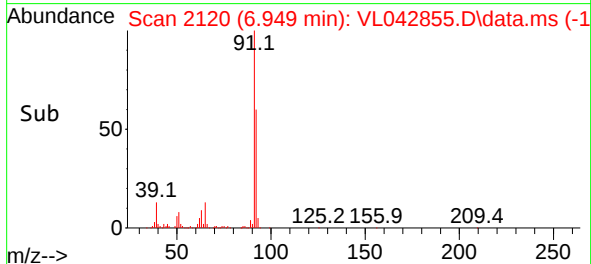
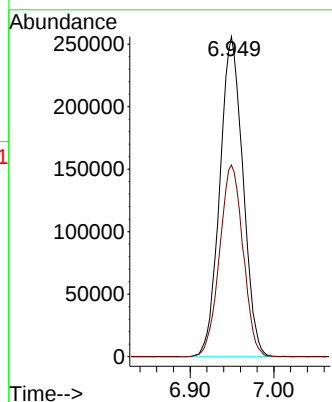
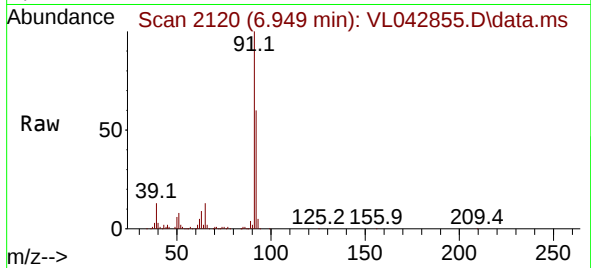




#53
Toluene
Concen: 10.936 ppbv
RT: 6.949 min Scan# 2118
Delta R.T. 0.006 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

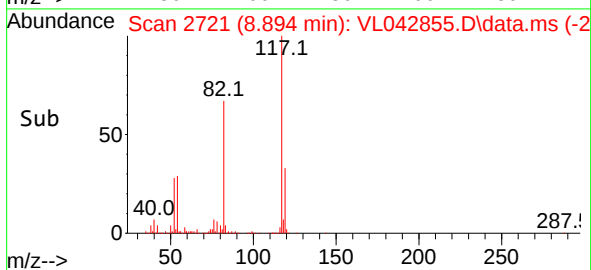
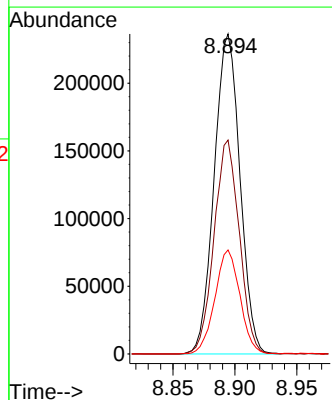
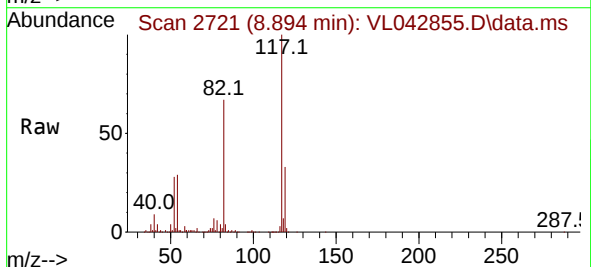
Instrument :
MSVOA_L
ClientSampleId :
IA1

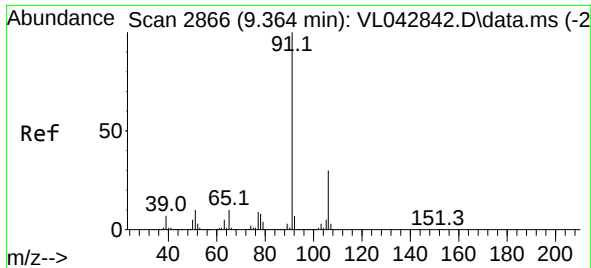
Tgt Ion: 91 Resp: 490532
Ion Ratio Lower Upper
91 100
92 60.8 47.8 71.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.894 min Scan# 2721
Delta R.T. 0.006 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 117 Resp: 342698
Ion Ratio Lower Upper
117 100
82 65.5 54.6 81.8
119 31.6 25.9 38.9

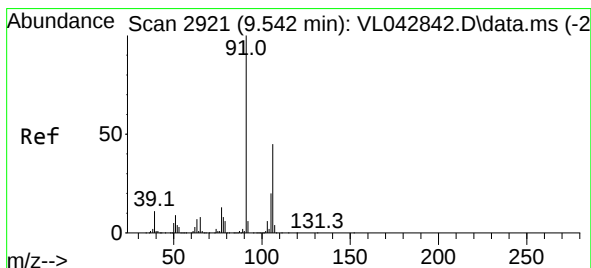
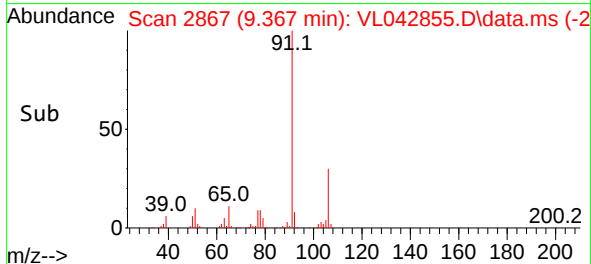
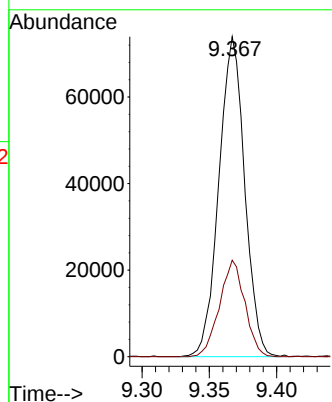
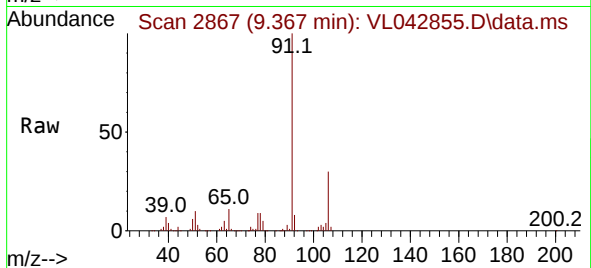




#58
Ethyl Benzene
Concen: 1.628 ppbv
RT: 9.367 min Scan# 2866
Delta R.T. 0.003 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

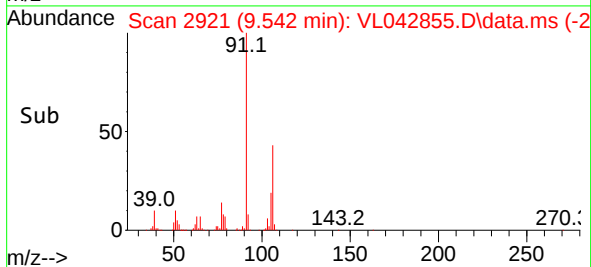
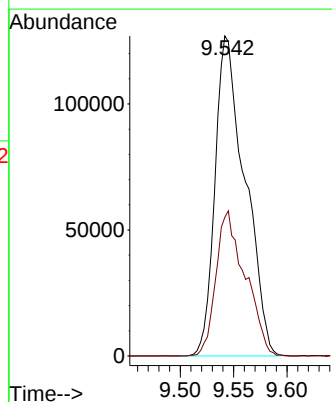
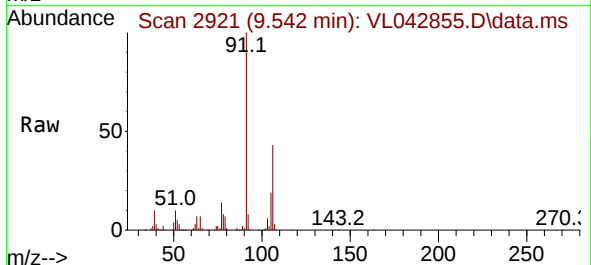
Instrument :
MSVOA_L
ClientSampleId :
IA1

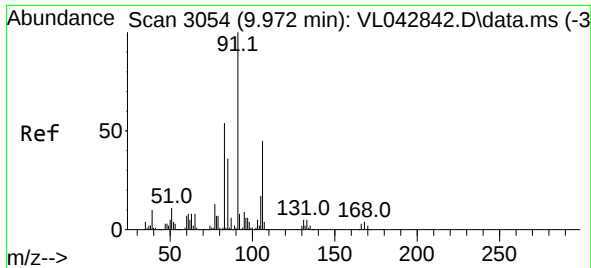
Tgt Ion: 91 Resp: 98450
Ion Ratio Lower Upper
91 100
106 30.2 23.9 35.9



#59
m/p-Xylene
Concen: 5.226 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 91 Resp: 247723
Ion Ratio Lower Upper
91 100
106 44.3 0.0 0.0#

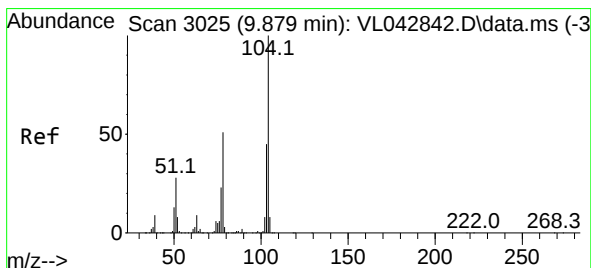
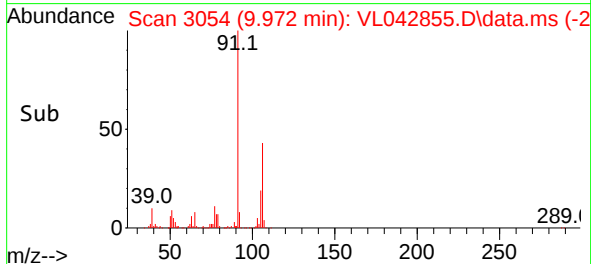
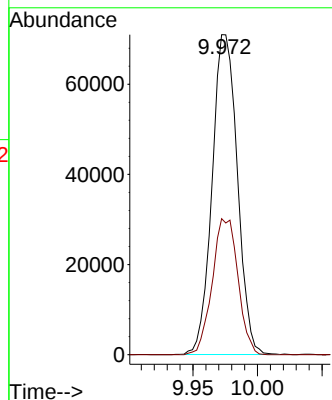
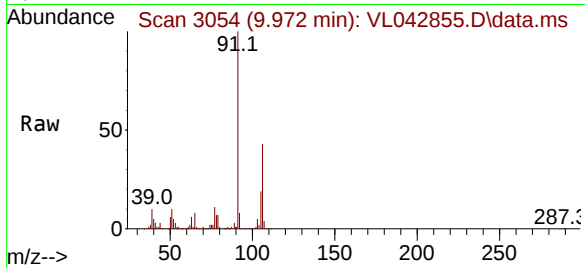




#60
o-Xylene
Concen: 2.022 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

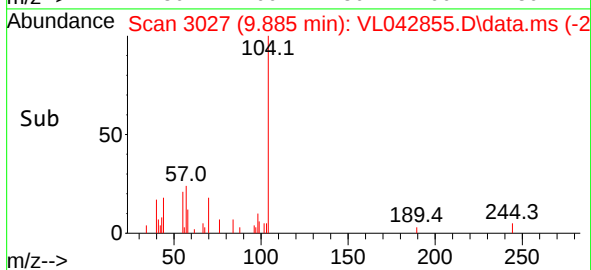
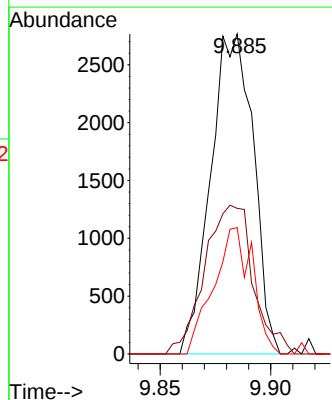
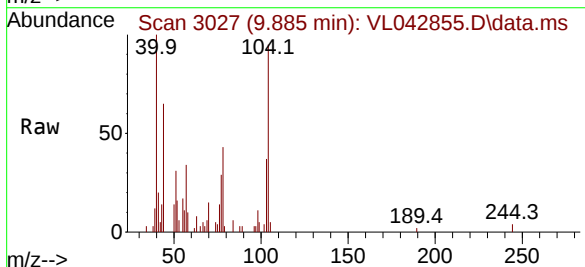
Instrument :
MSVOA_L
ClientSampleId :
IA1

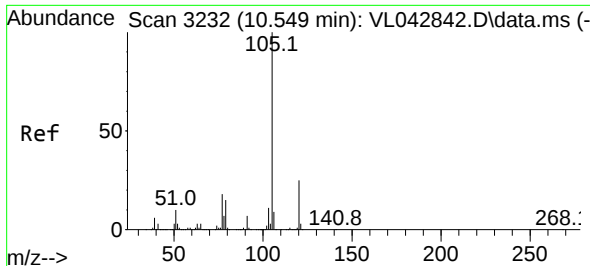
Tgt Ion: 91 Resp: 96410
Ion Ratio Lower Upper
91 100
106 43.4 21.8 65.4



#61
Styrene
Concen: 0.167 ppbv
RT: 9.885 min Scan# 3027
Delta R.T. 0.006 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion:104 Resp: 3722
Ion Ratio Lower Upper
104 100
78 53.0 40.6 61.0
103 36.6 37.7 56.5#

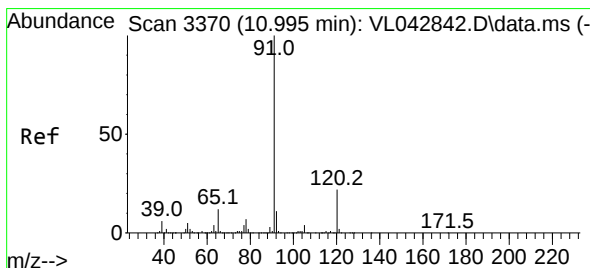
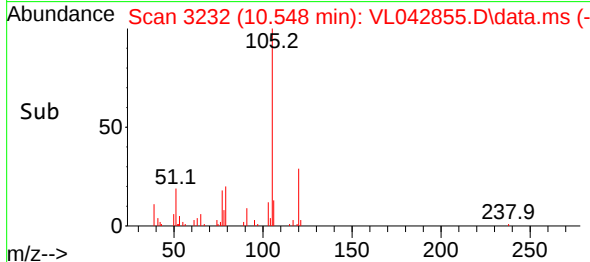
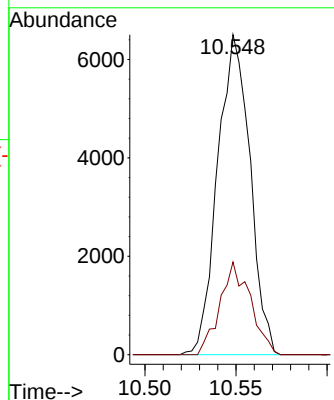
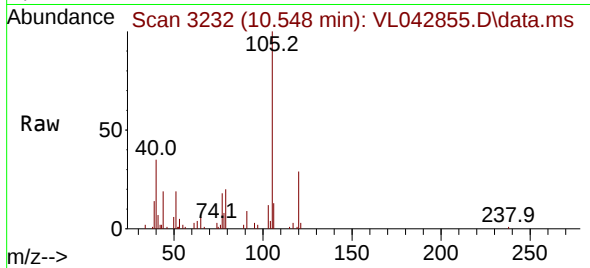




#62
Isopropylbenzene
Concen: 0.115 ppbv
RT: 10.548 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

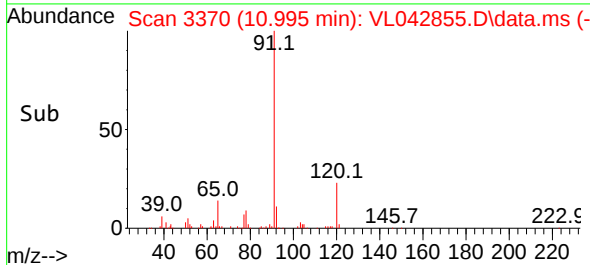
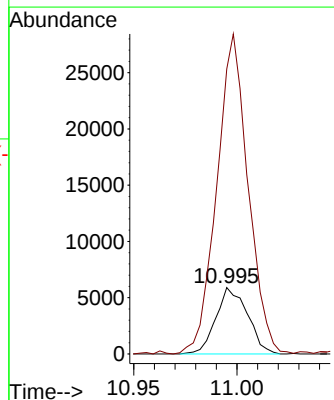
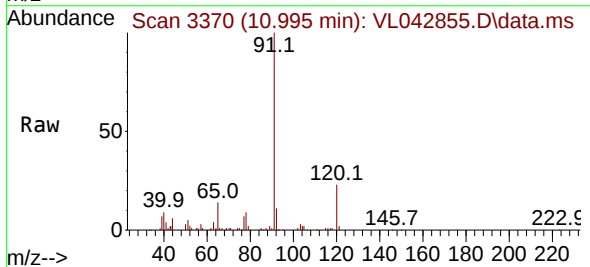
Instrument :
MSVOA_L
ClientSampleId :
IA1

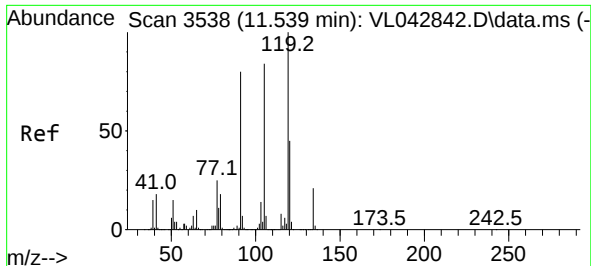
Tgt Ion:105 Resp: 8044
Ion Ratio Lower Upper
105 100
120 27.2 20.6 30.8



#64
n-propylbenzene
Concen: 0.353 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. -0.000 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion:120 Resp: 6276
Ion Ratio Lower Upper
120 100
91 480.4 375.8 563.6

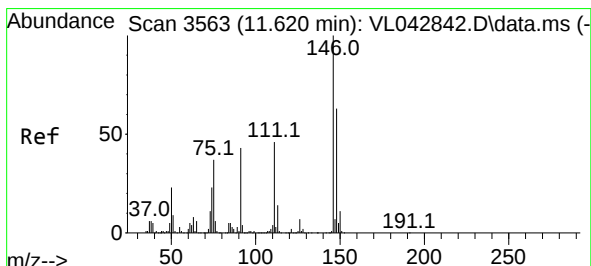
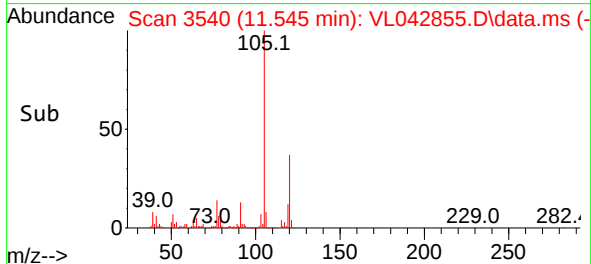
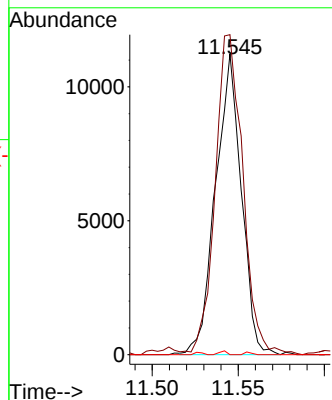
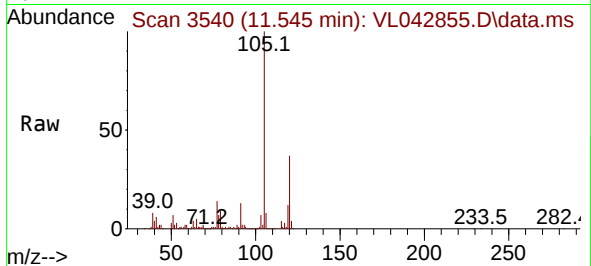




#65
tert-Butylbenzene
Concen: 0.190 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. 0.006 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

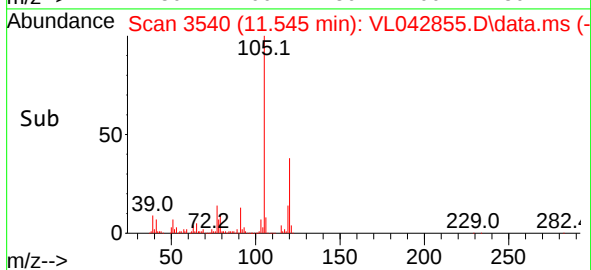
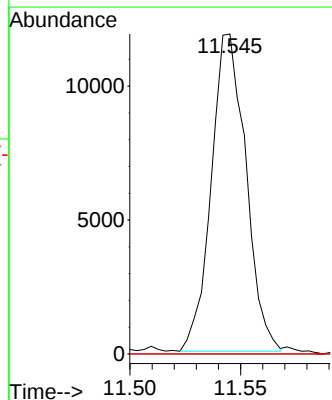
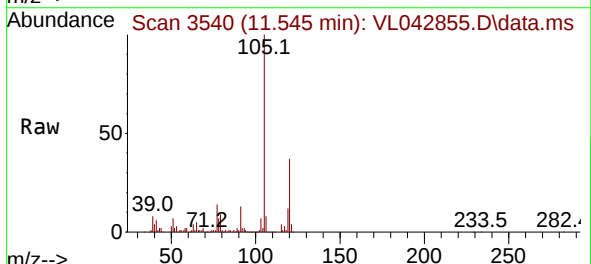
Instrument :
MSVOA_L
ClientSampleId :
IA1

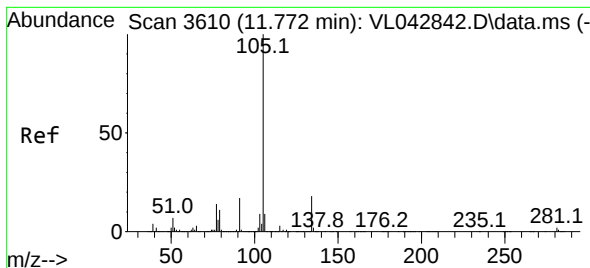
Tgt Ion:119 Resp: 11694
Ion Ratio Lower Upper
119 100
91 116.3 63.9 95.9#
134 0.0 17.0 25.4#



#66
Benzyl Chloride
Concen: 1.656 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.075 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 91 Resp: 12914
Ion Ratio Lower Upper
91 100
126 0.0 14.2 21.4#
128 0.1 5.0 7.6#





#67

sec-Butylbenzene

Concen: 0.027 ppbv

RT: 11.778 min Scan# 30

Delta R.T. 0.006 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

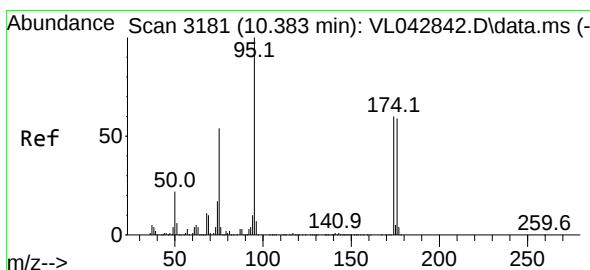
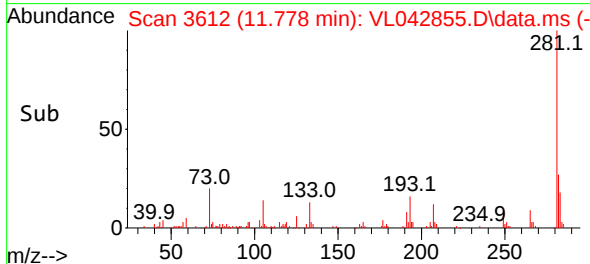
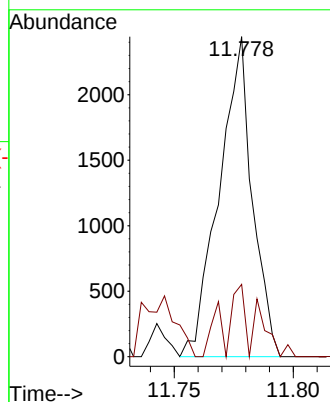
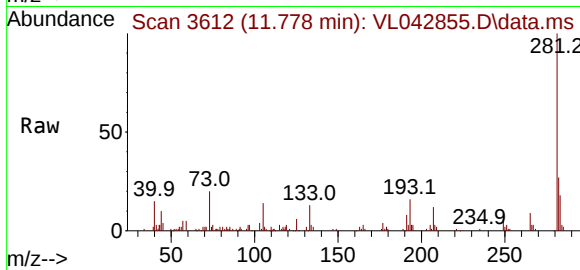
IA1

Tgt Ion:105 Resp: 2365

Ion Ratio Lower Upper

105 100

134 21.1 14.9 22.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.081 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

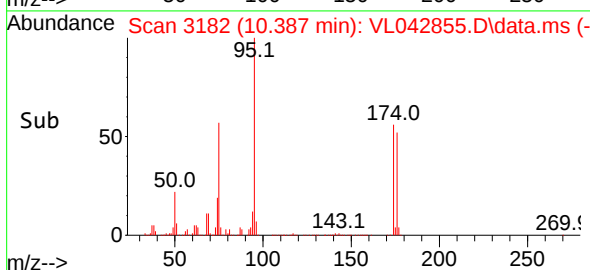
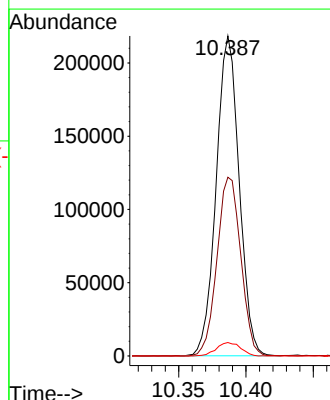
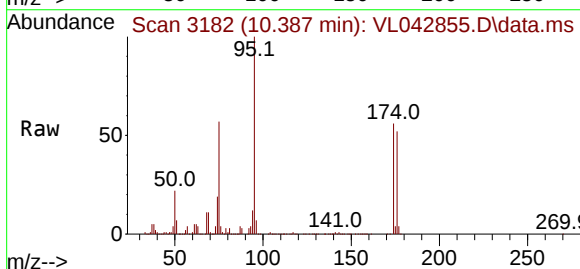
Tgt Ion: 95 Resp: 259097

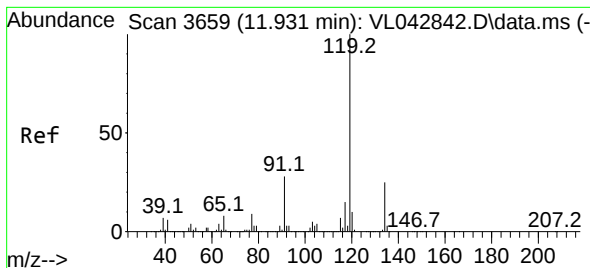
Ion Ratio Lower Upper

95 100

174 57.8 48.4 72.6

175 4.4 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.253 ppbv

RT: 11.934 min Scan# 30

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

IA1

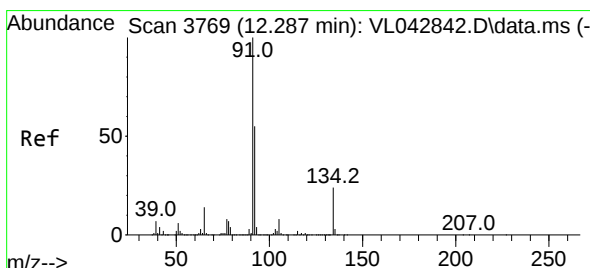
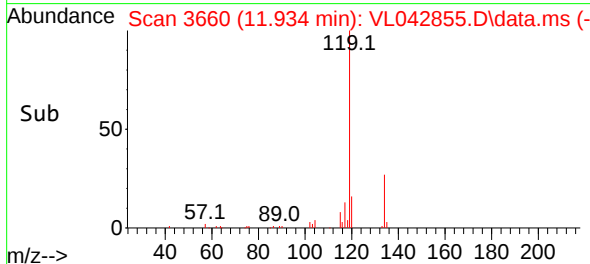
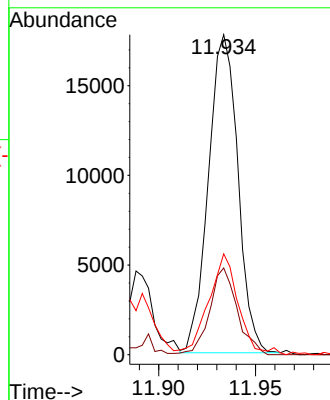
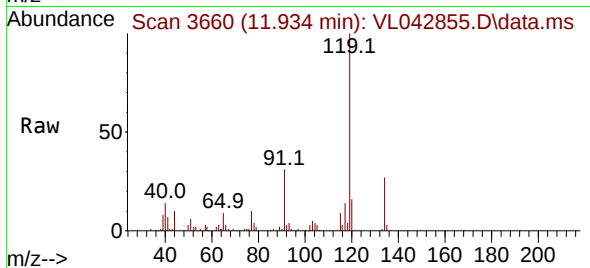
Tgt Ion:119 Resp: 18753

Ion Ratio Lower Upper

119 100

134 25.6 20.6 30.8

91 31.8 22.6 34.0



#70

n-Butylbenzene

Concen: 0.070 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

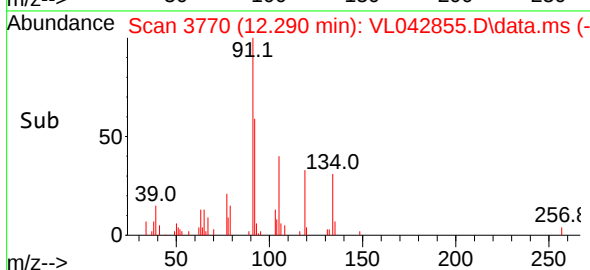
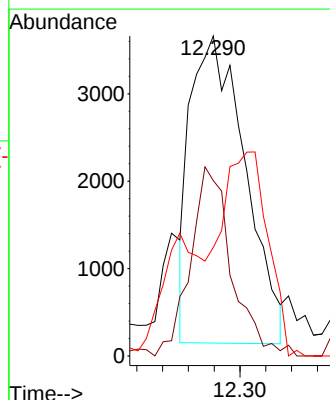
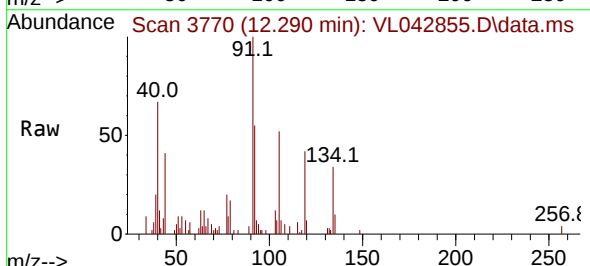
Tgt Ion: 91 Resp: 5167

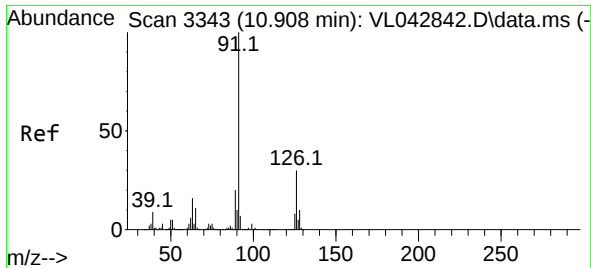
Ion Ratio Lower Upper

91 100

92 47.3 44.6 66.8

134 86.4 19.0 28.4#

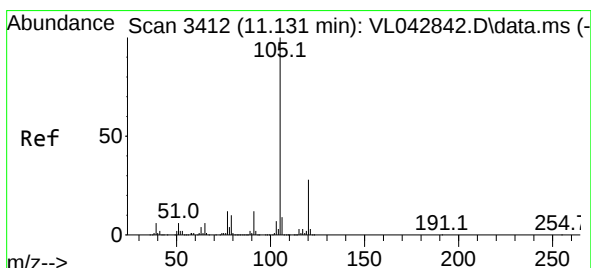
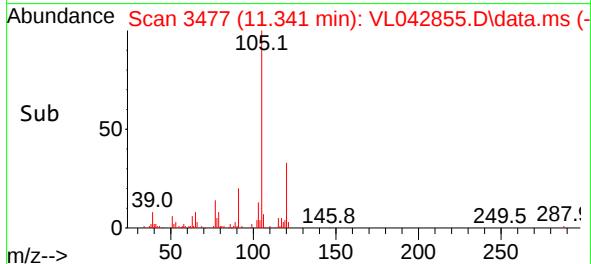
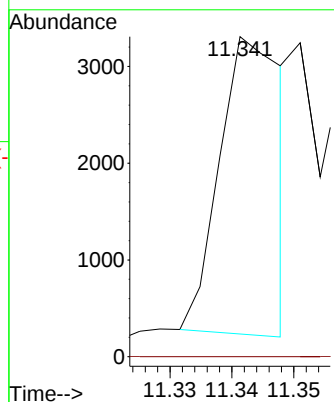
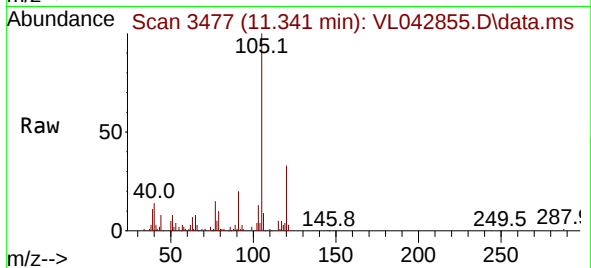




#71
2-Chlorotoluene
Concen: 0.040 ppbv
RT: 11.341 min Scan# 3412
Delta R.T. 0.434 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

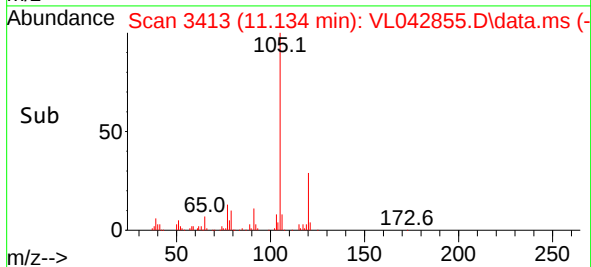
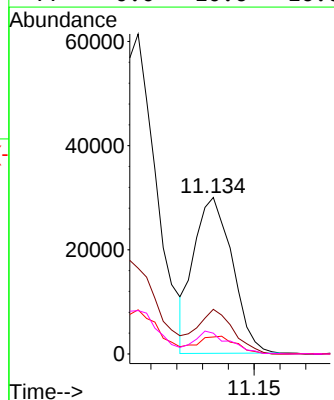
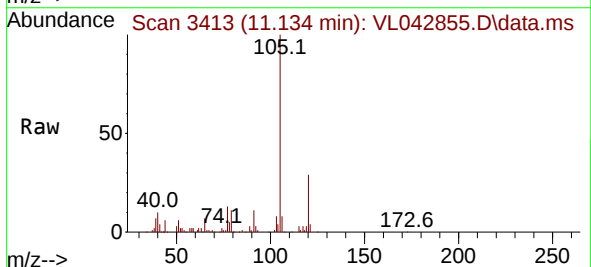
Instrument :
MSVOA_L
ClientSampleId :
IA1

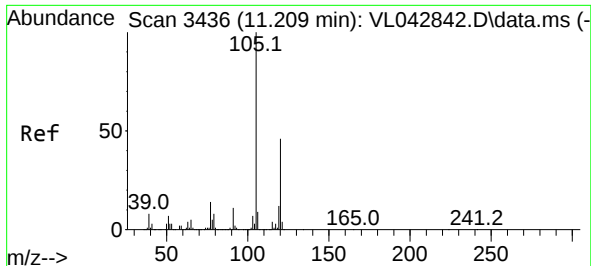
Tgt Ion: 91 Resp: 2145
Ion Ratio Lower Upper
91 100
126 15.2 12.0 47.8



#72
4-Ethyltoluene
Concen: 0.537 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.003 min
Lab File: VL042855.D
Acq: 13 Aug 2025 17:05

Tgt Ion: 105 Resp: 31067
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2#
91 0.0 9.8 14.6#
77 0.0 10.6 16.0#

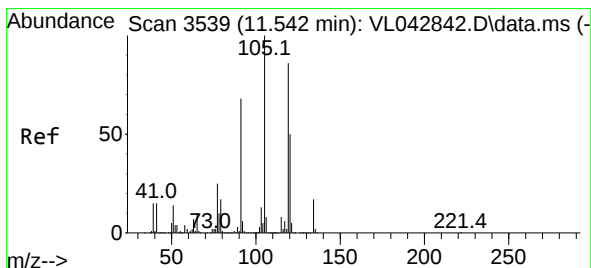
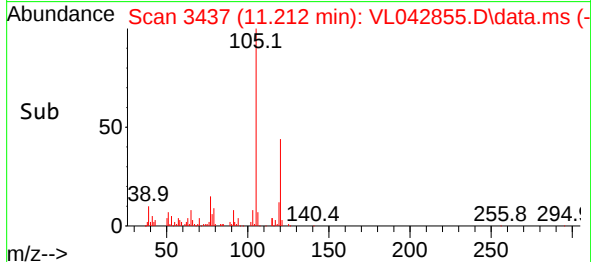
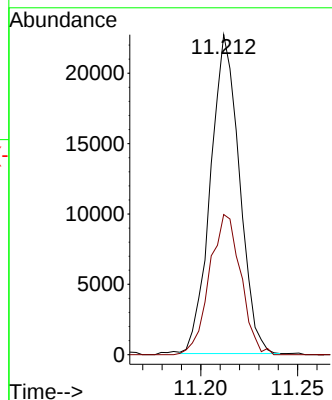
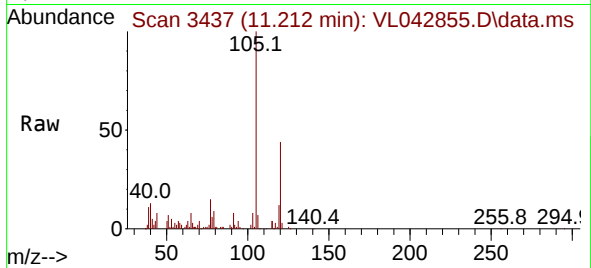




#73
 1,3,5-Trimethylbenzene
 Concen: 0.479 ppbv
 RT: 11.212 min Scan# 3436
 Delta R.T. 0.003 min
 Lab File: VL042855.D
 Acq: 13 Aug 2025 17:05

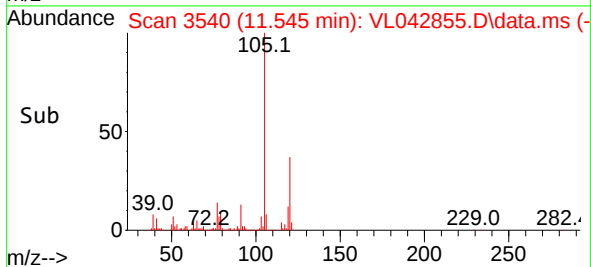
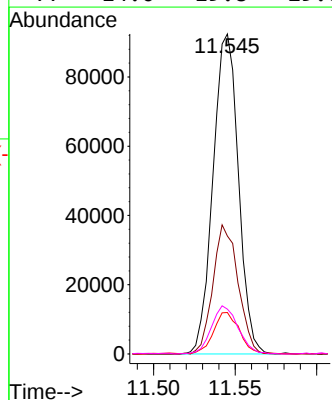
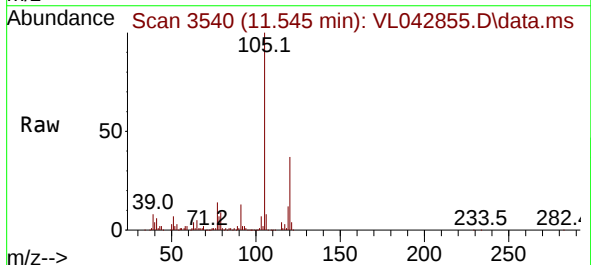
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

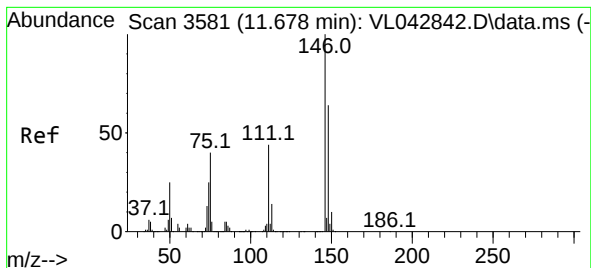
Tgt Ion:105 Resp: 23528
 Ion Ratio Lower Upper
 105 100
 120 44.0 36.6 54.8



#74
 1,2,4-Trimethylbenzene
 Concen: 1.853 ppbv
 RT: 11.545 min Scan# 3540
 Delta R.T. 0.003 min
 Lab File: VL042855.D
 Acq: 13 Aug 2025 17:05

Tgt Ion:105 Resp: 99976
 Ion Ratio Lower Upper
 105 100
 120 36.9 39.8 59.6#
 91 12.8 54.2 81.4#
 77 14.0 19.8 29.6#





#76

1,4-Dichlorobenzene

Concen: 0.147 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

IA1

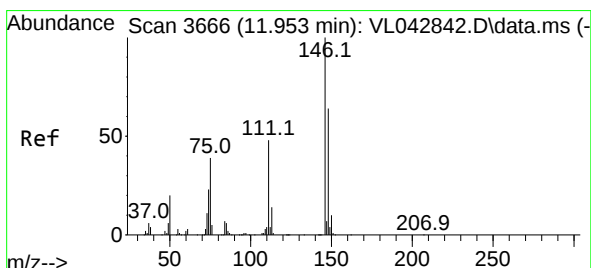
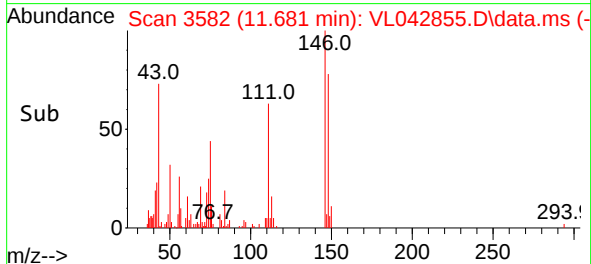
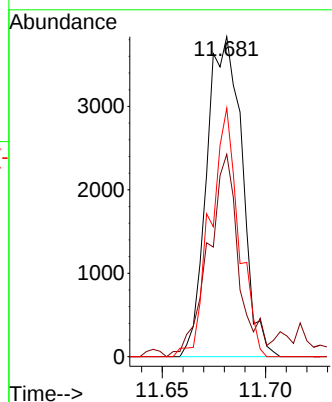
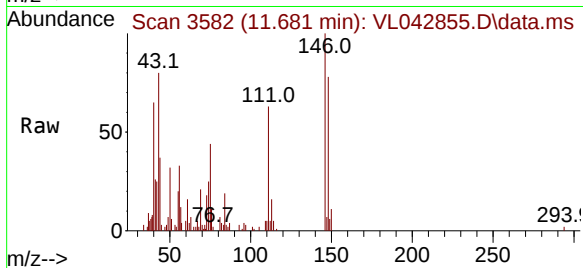
Tgt Ion:146 Resp: 4557

Ion Ratio Lower Upper

146 100

111 64.0 22.7 68.1

148 62.8 31.8 95.3



#77

1,2-Dichlorobenzene

Concen: 0.152 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. -0.272 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

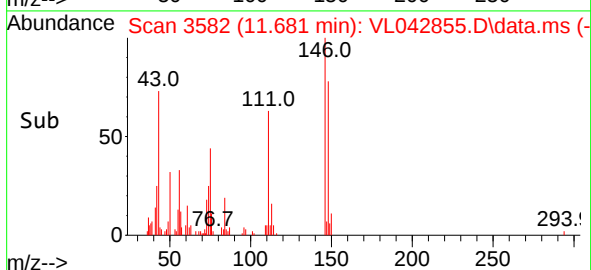
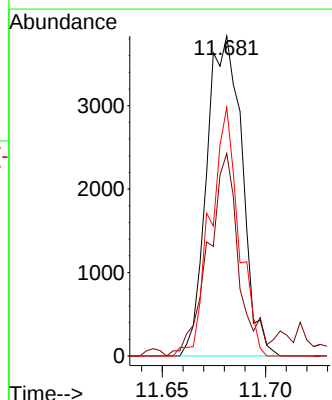
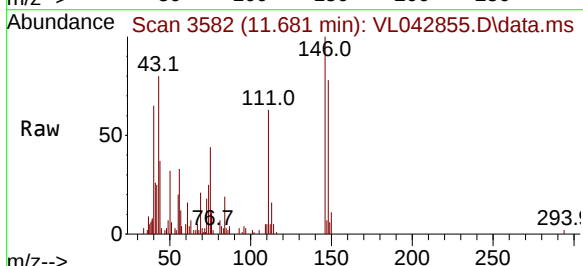
Tgt Ion:146 Resp: 4557

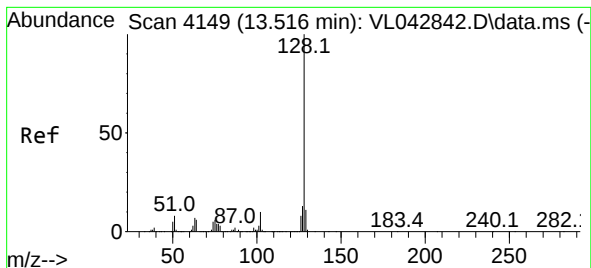
Ion Ratio Lower Upper

146 100

111 64.0 24.6 74.0

148 62.8 32.0 96.0





#79

Naphthalene

Concen: 1.017 ppbv

RT: 13.520 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Instrument :

MSVOA_L

ClientSampleId :

IA1

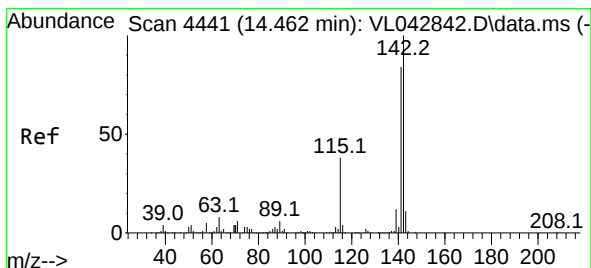
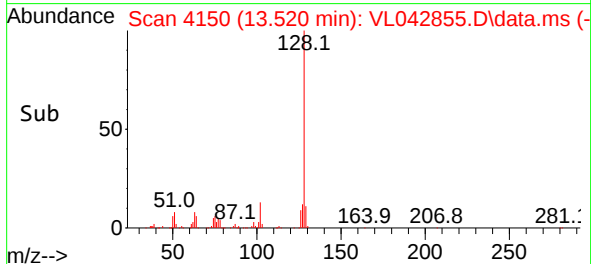
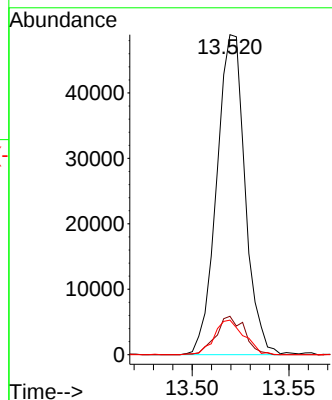
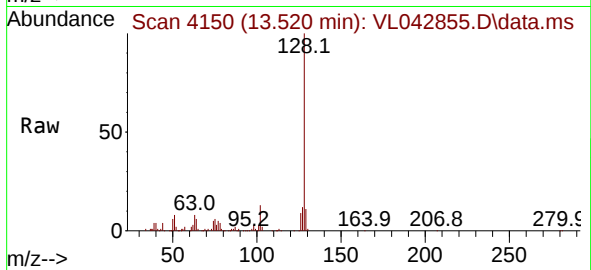
Tgt Ion:128 Resp: 49732

Ion Ratio Lower Upper

128 100

127 12.0 10.6 16.0

129 10.8 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 0.215 ppbv

RT: 14.465 min Scan# 4442

Delta R.T. 0.003 min

Lab File: VL042855.D

Acq: 13 Aug 2025 17:05

Tgt Ion:142 Resp: 3925

Ion Ratio Lower Upper

142 100

141 84.4 67.0 100.6

115 46.2 30.9 46.3

