

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082625\
 Data File : VL042884.D
 Acq On : 26 Aug 2025 14:29
 Operator : SY/MD
 Sample : Q2943-01 4X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Aug 27 01:11:41 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	2.790	49	127308	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	346383	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	304552	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	239031	10.465	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.700%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2384	0.128	ppbv	98
3) Chlorodifluoromethane	1.450	51	1619125	78.509	ppbv #	59
4) Chloromethane	1.450	50	842481	111.894	ppbv #	49
5) Vinyl Chloride	1.457	62	9137	1.232	ppbv #	1
7) Chloroethane	1.450	64	198660	68.602	ppbv #	39
9) Propene	1.489	41	4536	0.509	ppbv #	17
10) Heptane	4.985	43	7015	0.294	ppbv	95
11) Trichlorofluoromethane	1.450	101	140245	7.619	ppbv #	22
13) Ethanol	1.722	45	138035	169.498	ppbv	89
15) Acetone	1.839	43	476140	28.273	ppbv #	78
16) 1,3-Butadiene	1.603	39	1982	0.260	ppbv #	40
17) tert-Butyl alcohol	2.046	59	9285	0.465	ppbv #	71
19) Isopropyl Alcohol	1.887	45	135740	13.495	ppbv #	73
20) Methylene Chloride	2.062	84	2260	0.320	ppbv #	94
21) Allyl Chloride	1.965	41	196303	16.500	ppbv #	54
23) Vinyl Acetate	2.476	43	4049	0.175	ppbv #	59
25) Ethyl Acetate	2.829	43	20954	0.514	ppbv #	77
26) Hexane	2.829	57	27976	1.487	ppbv #	44
27) Carbon Disulfide	2.150	76	1516	0.083	ppbv #	1
29) Chloroform	2.852	83	9020	0.336	ppbv	98
30) Cyclohexane	3.868	84	1092	0.066	ppbv #	1
32) 1,1,1-Trichloroethane	3.370	97	1442	0.051	ppbv #	32
34) 2-Butanone	2.564	43	9363	0.400	ppbv	99
36) Benzene	3.661	78	6760	0.204	ppbv #	87
39) 1,2-Dichloropropane	3.962	63	90847	7.499	ppbv #	26
41) Tetrahydrofuran	3.069	42	1453	0.111	ppbv #	68
51) 2-Hexanone	7.432	43	1361	0.055	ppbv #	27
52) Tetrachloroethene	8.231	164	2993	0.249	ppbv #	66
53) Toluene	6.943	91	49705	1.260	ppbv	98
58) Ethyl Benzene	9.361	91	149110	2.774	ppbv	97
59) m/p-Xylene	9.539	91	40622	0.964	ppbv #	100
60) o-Xylene	9.969	91	20845	0.492	ppbv	94
61) Styrene	9.875	104	554521	27.930	ppbv	98
62) Isopropylbenzene	10.545	105	10042	0.162	ppbv	99
64) n-propylbenzene	10.992	120	2884	0.183	ppbv	71
65) tert-Butylbenzene	11.539	119	1927	0.035	ppbv #	1
69) p-Isopropyltoluene	11.927	119	3873	0.059	ppbv #	91
70) n-Butylbenzene	12.355	91	2713	0.042	ppbv	97
71) 2-Chlorotoluene	11.092	91	1766	0.037	ppbv	94
72) 4-Ethyltoluene	11.128	105	4535	0.088	ppbv #	51
73) 1,3,5-Trimethylbenzene	11.206	105	6575	0.151	ppbv	89
74) 1,2,4-Trimethylbenzene	11.539	105	16244	0.339	ppbv #	60
79) Naphthalene	13.517	128	2042	0.047	ppbv #	79

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Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
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ClientSampleId :
SV1

Quant Time: Aug 27 01:11:41 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

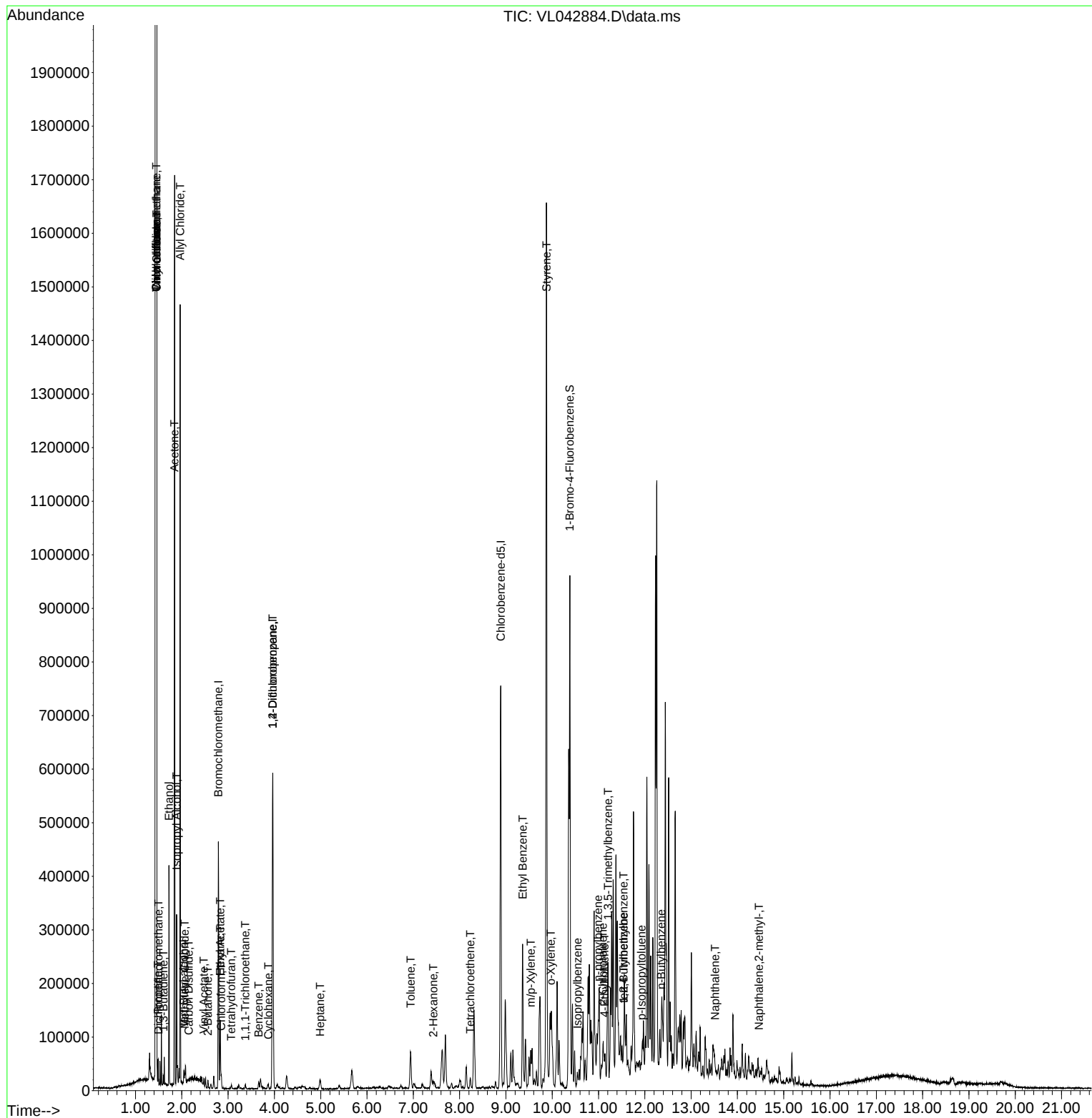
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) Naphthalene,2-methyl-	14.468	142	748	0.046	ppbv	# 75

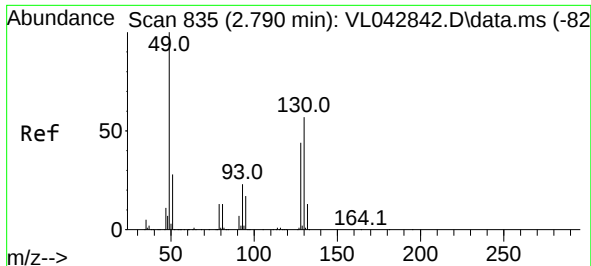
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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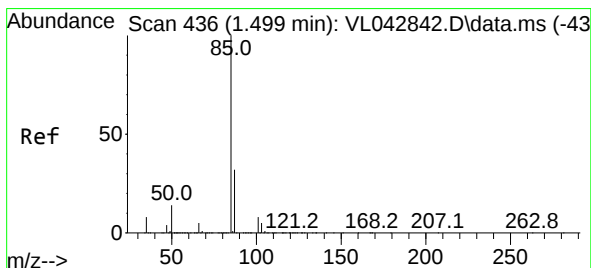
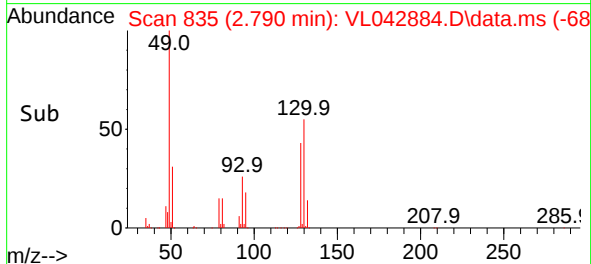
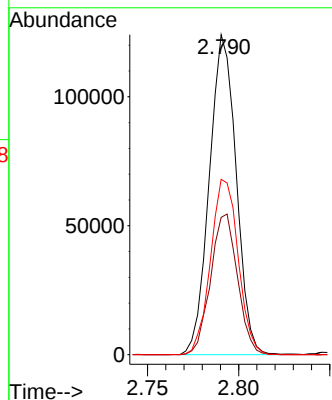
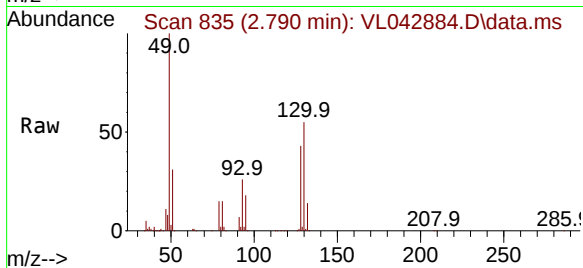




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 835
 Delta R.T. 0.000 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

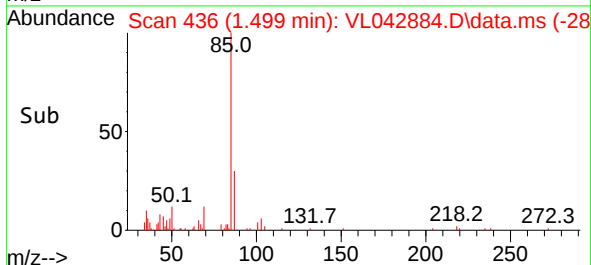
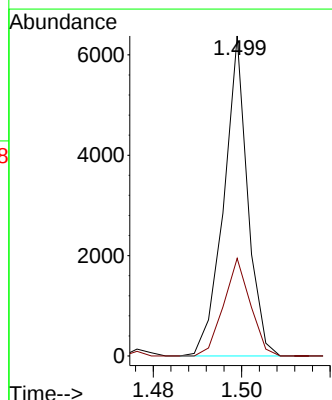
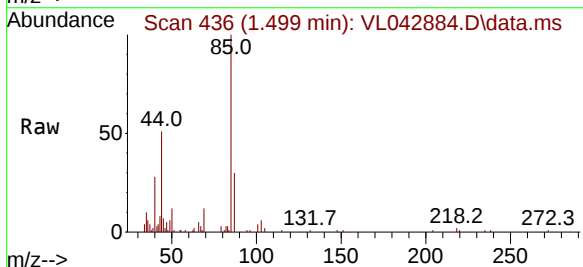
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

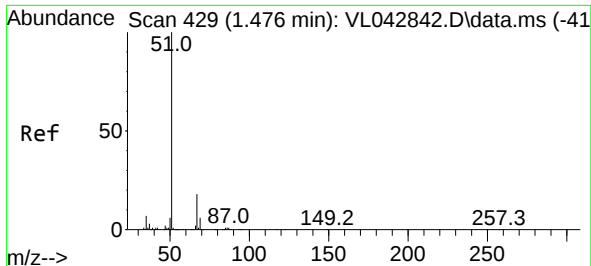
Tgt Ion: 49 Resp: 127308
 Ion Ratio Lower Upper
 49 100
 128 44.0 23.7 71.1
 130 56.4 30.6 91.6



#2
 Dichlorodifluoromethane
 Concen: 0.128 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

Tgt Ion: 85 Resp: 2384
 Ion Ratio Lower Upper
 85 100
 87 30.5 25.3 37.9

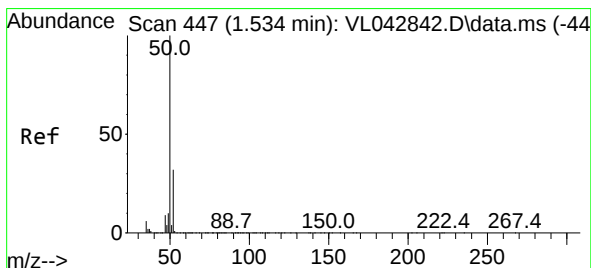
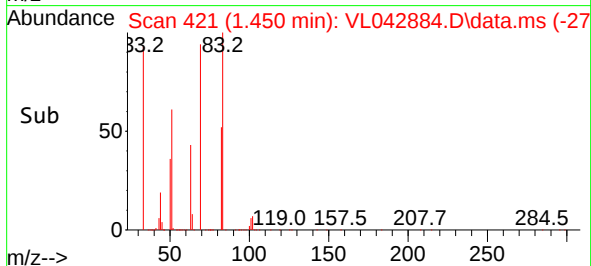
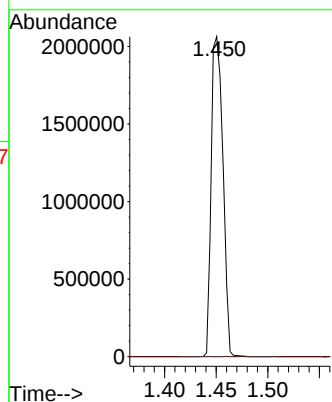
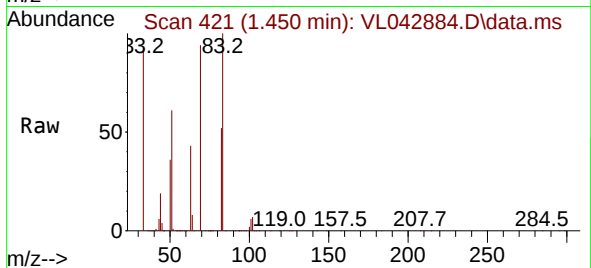




#3
Chlorodifluoromethane
Concen: 78.509 ppbv
RT: 1.450 min Scan# 41
Delta R.T. -0.026 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

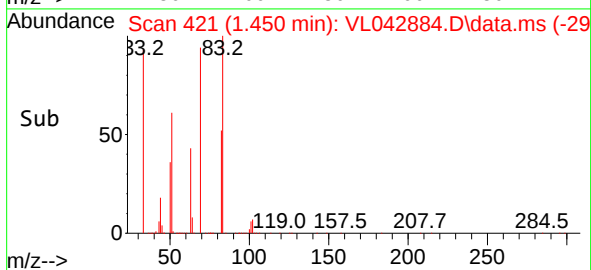
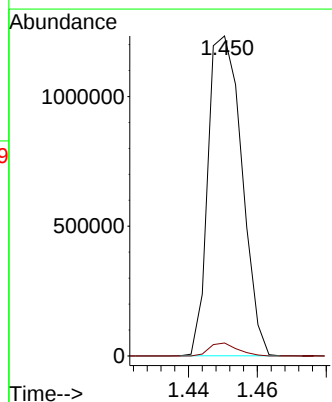
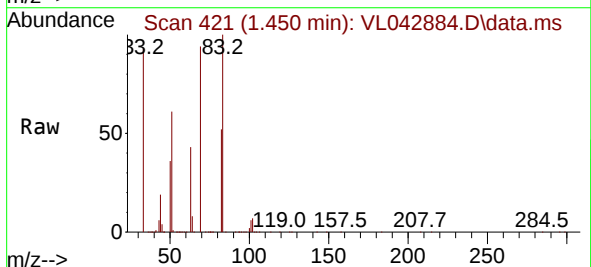
Instrument :
MSVOA_L
ClientSampleId :
SV1

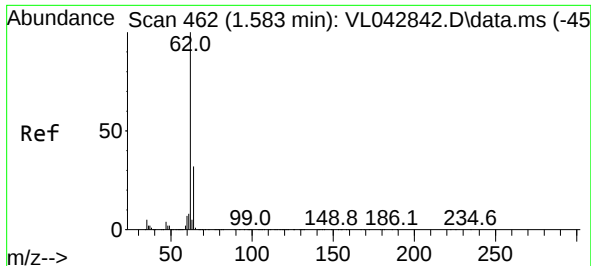
Tgt Ion: 51 Resp: 1619125
Ion Ratio Lower Upper
51 100
67 0.0 14.9 22.3#



#4
Chloromethane
Concen: 111.894 ppbv
RT: 1.450 min Scan# 421
Delta R.T. -0.084 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 50 Resp: 842481
Ion Ratio Lower Upper
50 100
52 4.0 25.9 38.9#

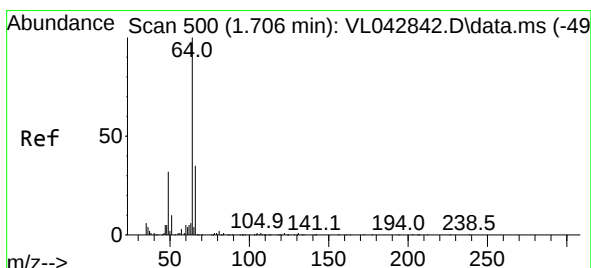
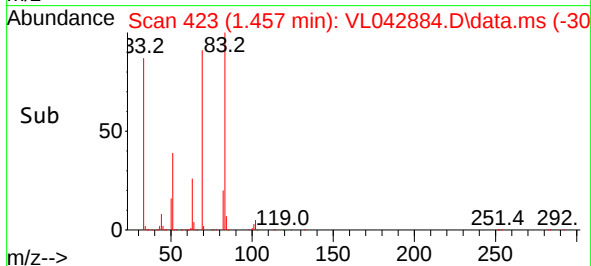
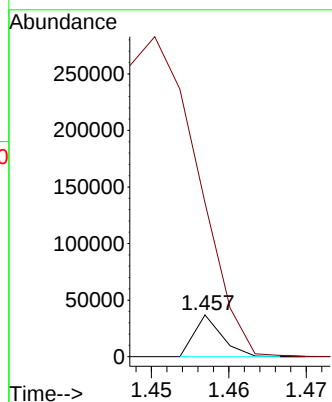
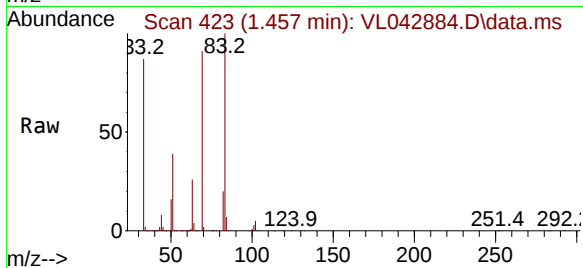




#5
 Vinyl Chloride
 Concen: 1.232 ppbv
 RT: 1.457 min Scan# 41
 Delta R.T. -0.126 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

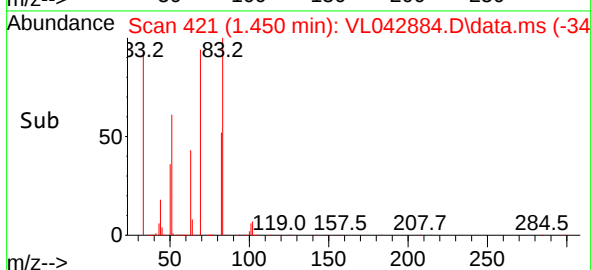
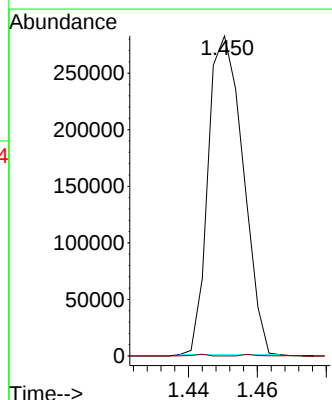
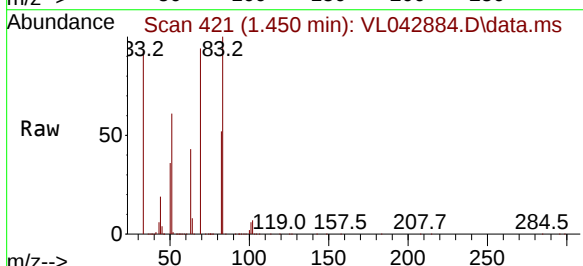
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

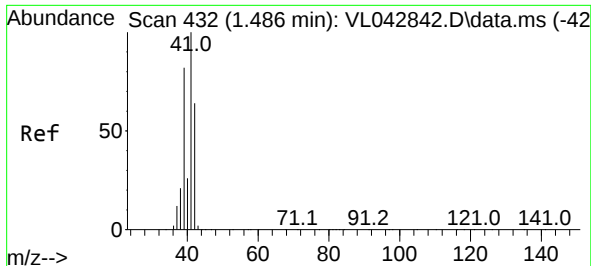
Tgt Ion: 62 Resp: 9137
 Ion Ratio Lower Upper
 62 100
 64 365.9 25.4 38.2#



#7
 Chloroethane
 Concen: 68.602 ppbv
 RT: 1.450 min Scan# 421
 Delta R.T. -0.256 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

Tgt Ion: 64 Resp: 198660
 Ion Ratio Lower Upper
 64 100
 66 0.0 28.6 42.8#





#9

Propene

Concen: 0.509 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

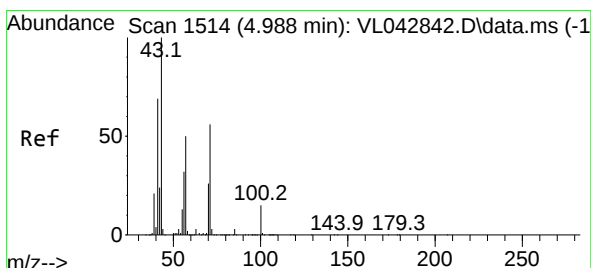
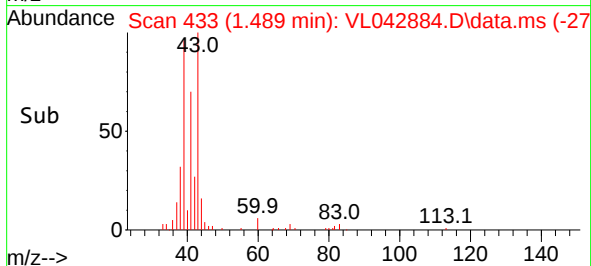
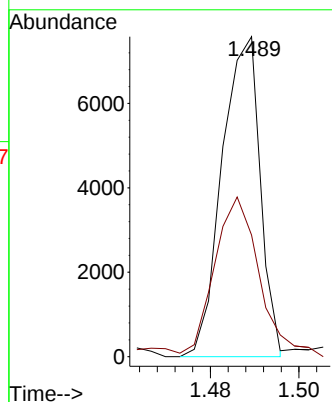
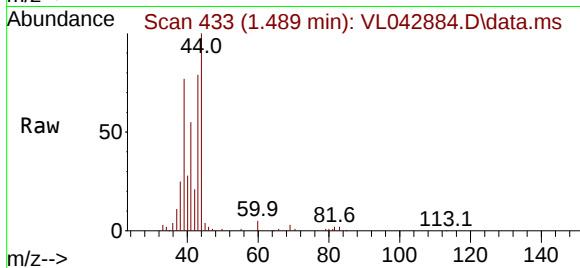
SV1

Tgt Ion: 41 Resp: 4536

Ion Ratio Lower Upper

41 100

42 0.0 53.0 79.4#



#10

Heptane

Concen: 0.294 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. -0.003 min

Lab File: VL042884.D

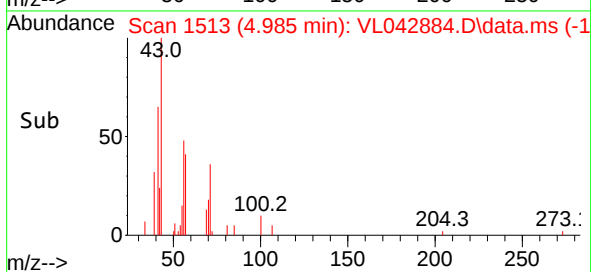
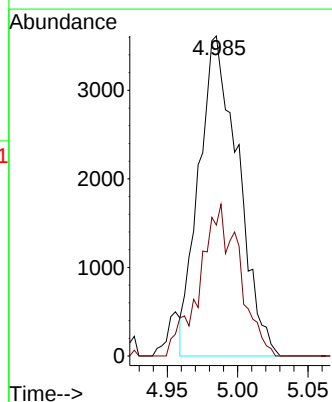
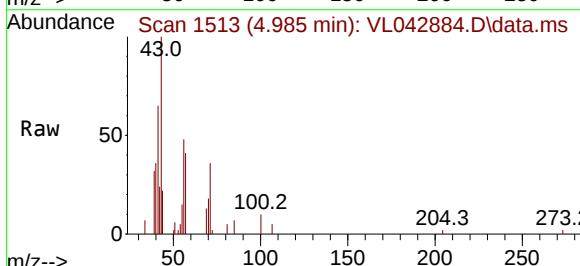
Acq: 26 Aug 2025 14:29

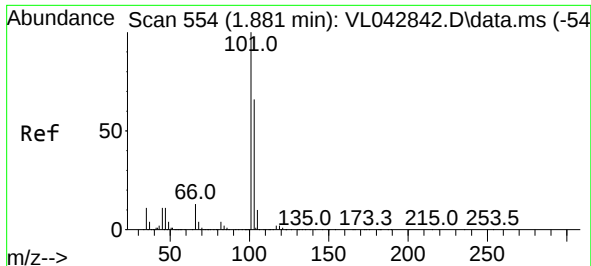
Tgt Ion: 43 Resp: 7015

Ion Ratio Lower Upper

43 100

57 48.3 41.4 62.0

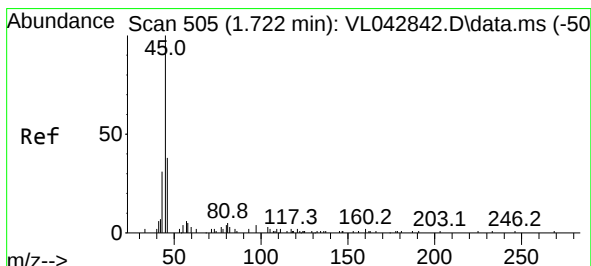
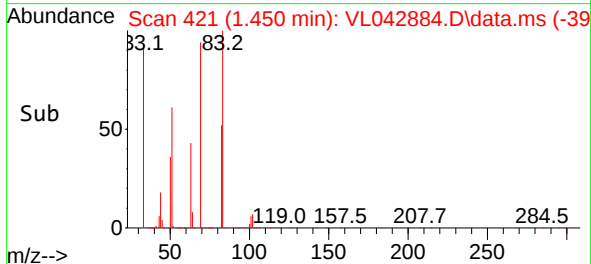
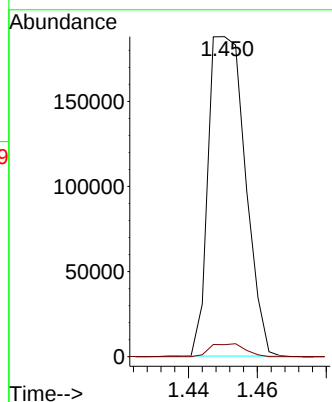
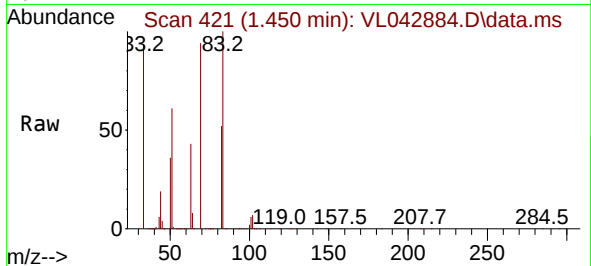




#11
 Trichlorofluoromethane
 Concen: 7.619 ppbv
 RT: 1.450 min Scan# 41
 Delta R.T. -0.430 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

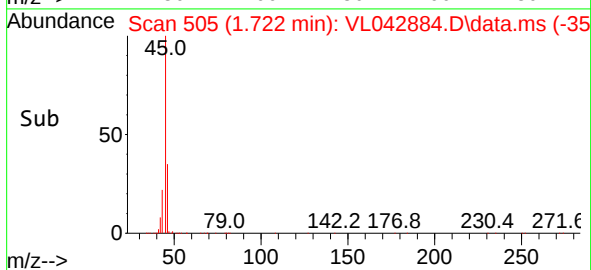
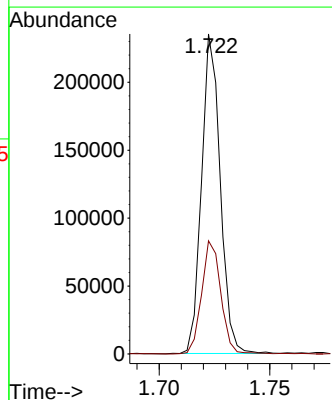
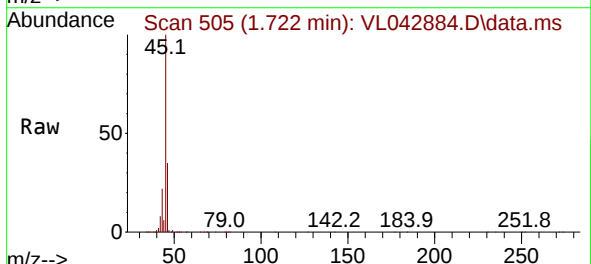
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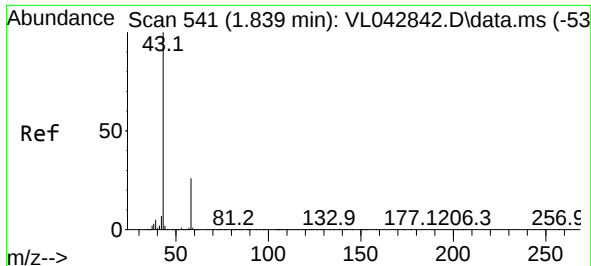
Tgt Ion:101 Resp: 140245
 Ion Ratio Lower Upper
 101 100
 103 3.8 52.5 78.7#



#13
 Ethanol
 Concen: 169.498 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.000 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

Tgt Ion: 45 Resp: 138035
 Ion Ratio Lower Upper
 45 100
 46 36.9 17.5 69.9

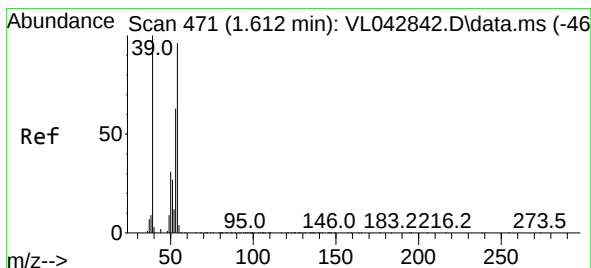
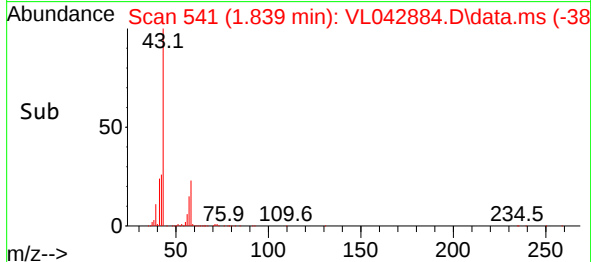
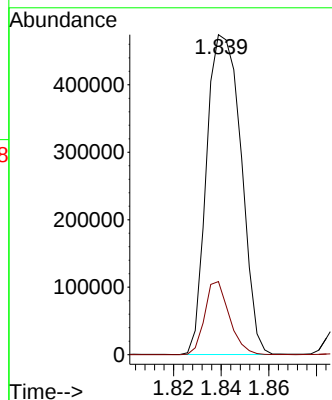
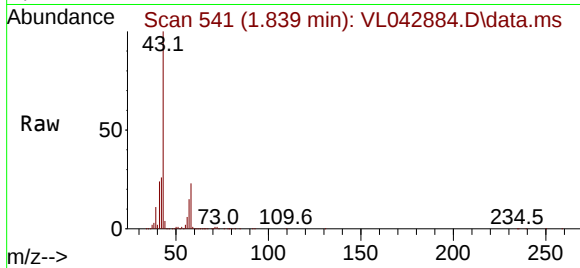




#15
Acetone
Concen: 28.273 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

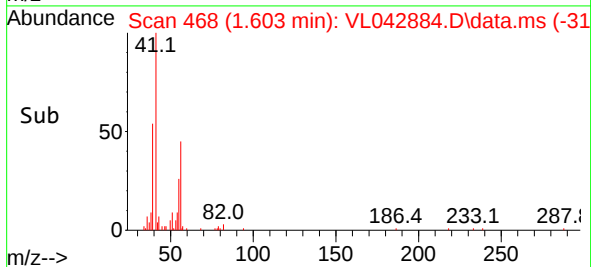
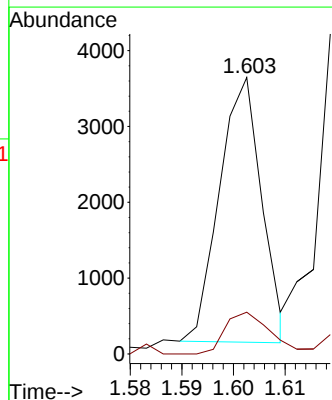
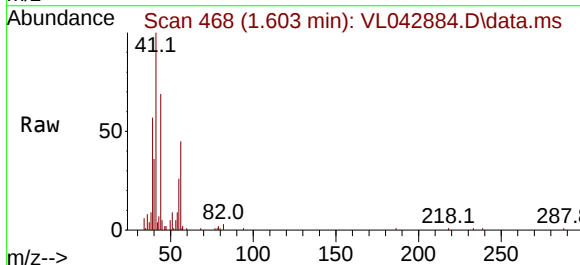
Instrument :
MSVOA_L
ClientSampleId :
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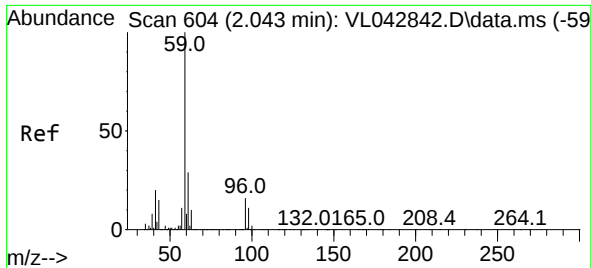
Tgt Ion: 43 Resp: 476140
Ion Ratio Lower Upper
43 100
58 16.5 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.260 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.010 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 39 Resp: 1982
Ion Ratio Lower Upper
39 100
54 26.5 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.465 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

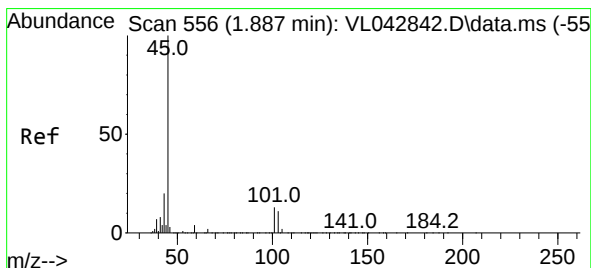
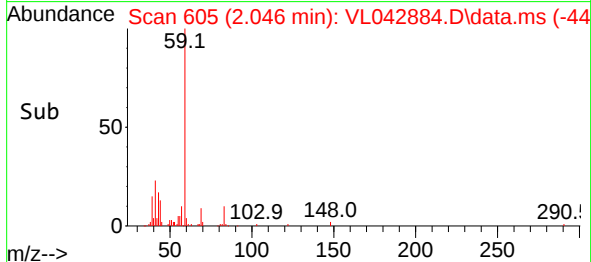
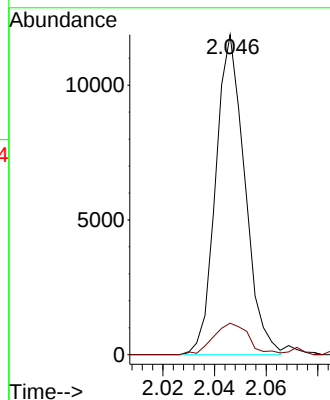
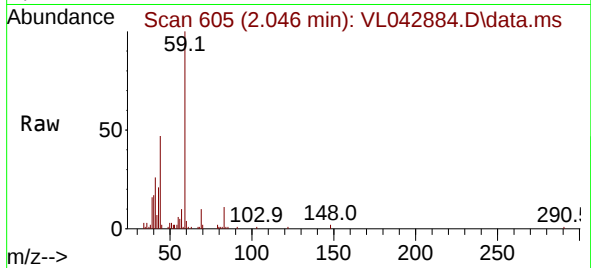
SV1

Tgt Ion: 59 Resp: 9285

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 13.495 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.000 min

Lab File: VL042884.D

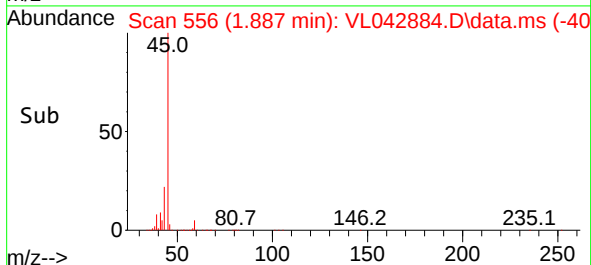
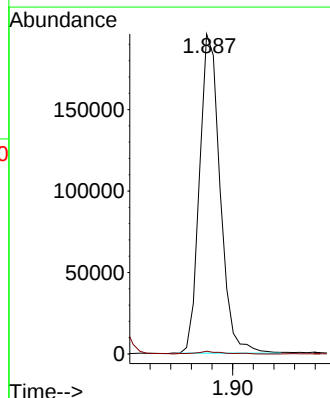
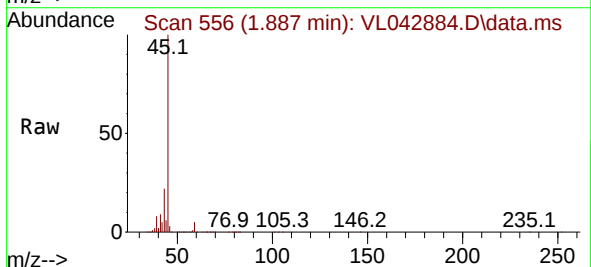
Acq: 26 Aug 2025 14:29

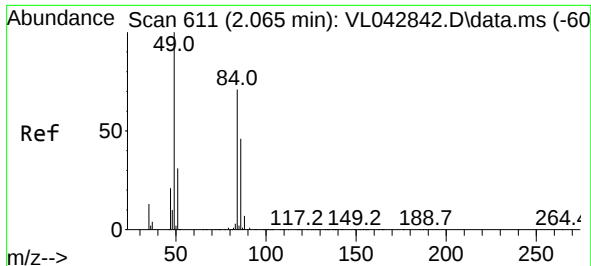
Tgt Ion: 45 Resp: 135740

Ion Ratio Lower Upper

45 100

58 57.8 32.7 49.1#

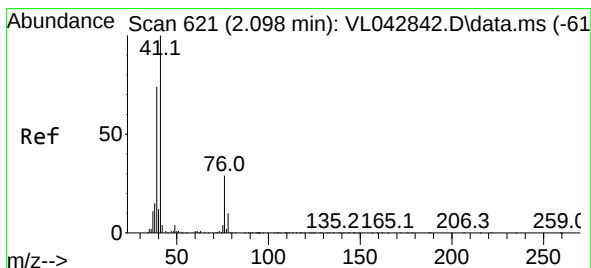
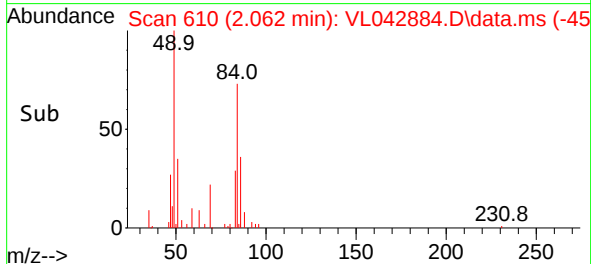
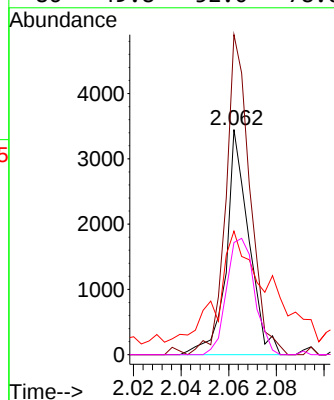
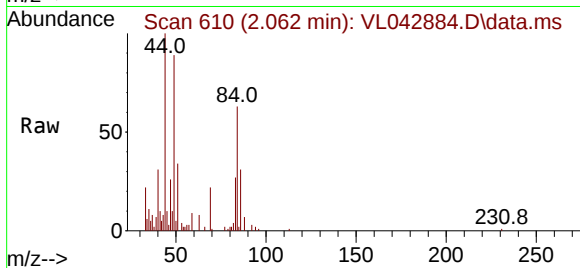




#20
Methylene Chloride
Concen: 0.320 ppbv
RT: 2.062 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

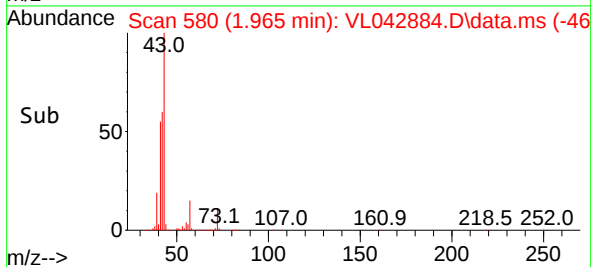
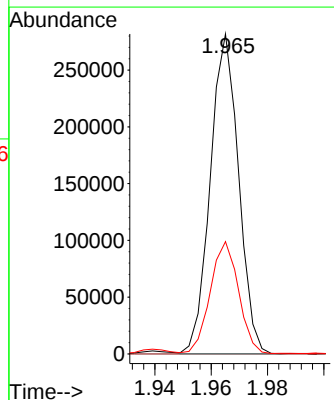
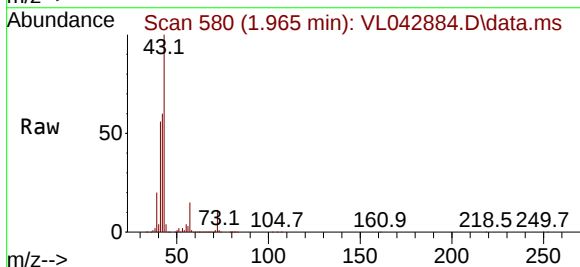
Instrument :
MSVOA_L
ClientSampleId :
SV1

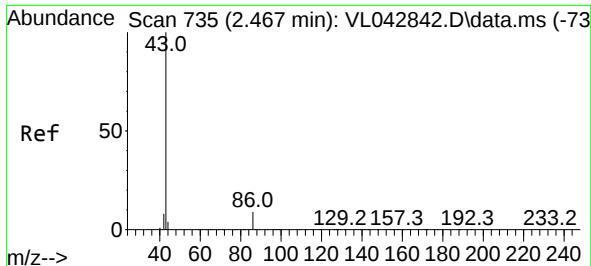
Tgt Ion:	84	Resp:	2260
Ion	Ratio	Lower	Upper
84	100		
49	138.3	112.3	168.5
51	45.8	36.0	54.0
86	49.8	52.0	78.0



#21
Allyl Chloride
Concen: 16.500 ppbv
RT: 1.965 min Scan# 580
Delta R.T. -0.133 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion:	41	Resp:	196303
Ion	Ratio	Lower	Upper
41	100		
76	0.8	23.9	35.9
39	36.6	57.8	86.6

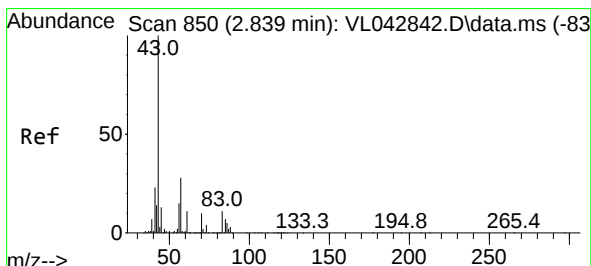
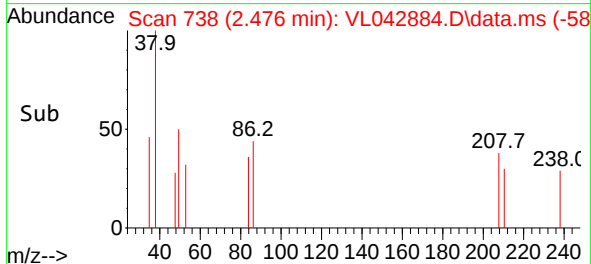
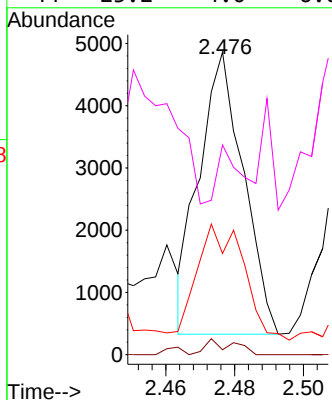
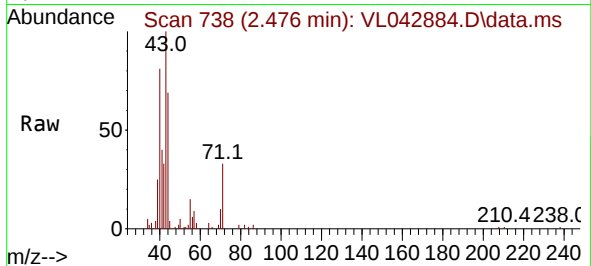




#23
 Vinyl Acetate
 Concen: 0.175 ppbv
 RT: 2.476 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

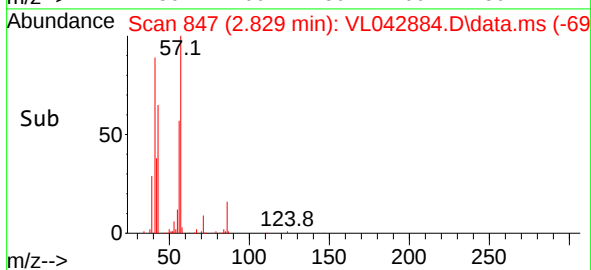
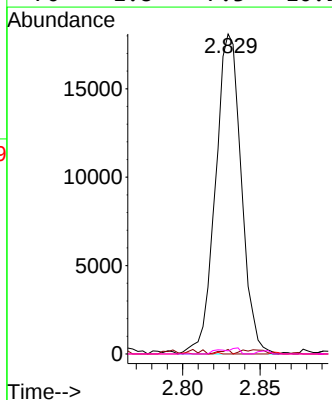
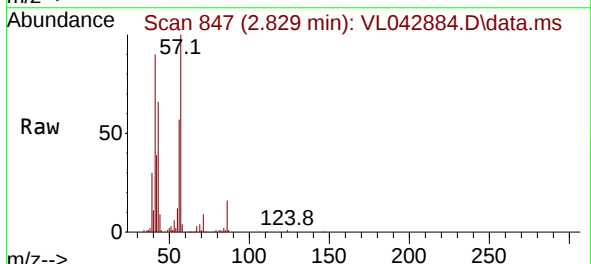
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

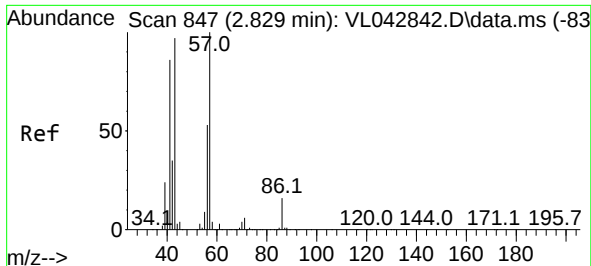
Tgt Ion:	43	Resp:	4049
Ion	Ratio	Lower	Upper
43	100		
86	1.7	6.6	9.8#
42	28.4	7.0	10.6#
44	23.2	4.0	6.0#



#25
 Ethyl Acetate
 Concen: 0.514 ppbv
 RT: 2.829 min Scan# 847
 Delta R.T. -0.010 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

Tgt Ion:	43	Resp:	20954
Ion	Ratio	Lower	Upper
43	100		
45	1.7	8.1	12.1#
61	0.0	7.4	11.2#
70	1.8	7.3	10.9#

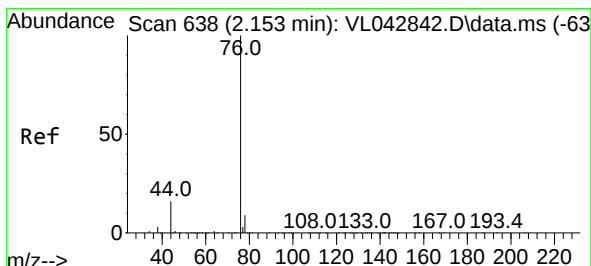
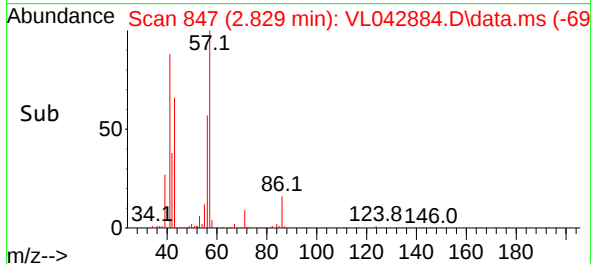
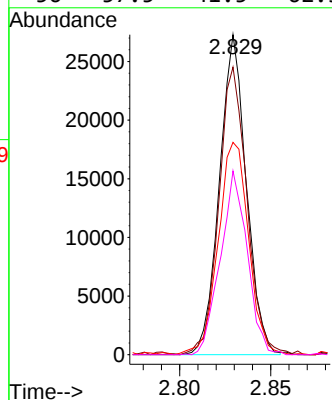
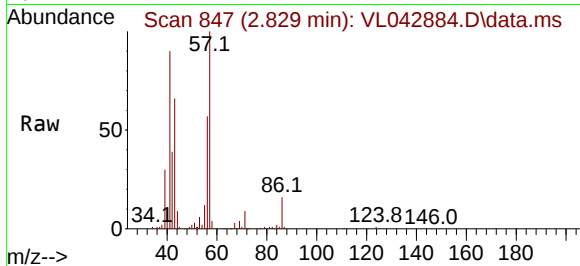




#26
Hexane
Concen: 1.487 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

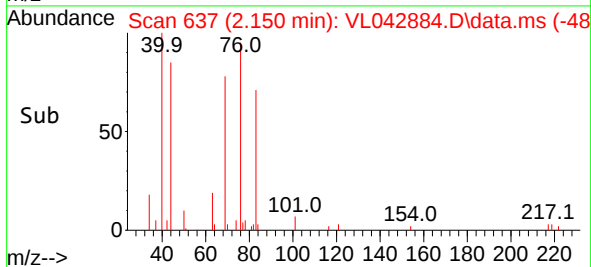
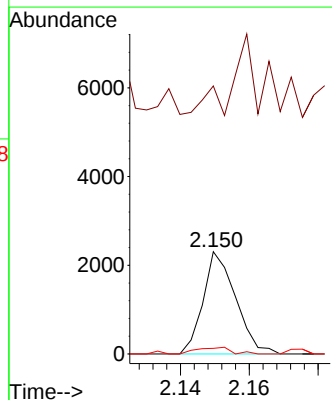
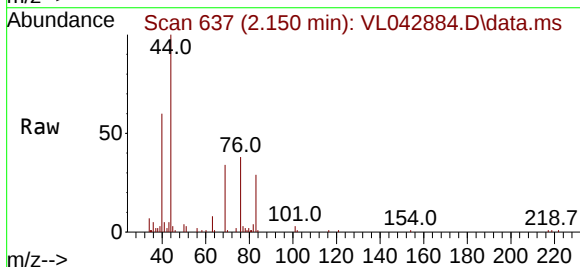
Instrument :
MSVOA_L
ClientSampleId :
SV1

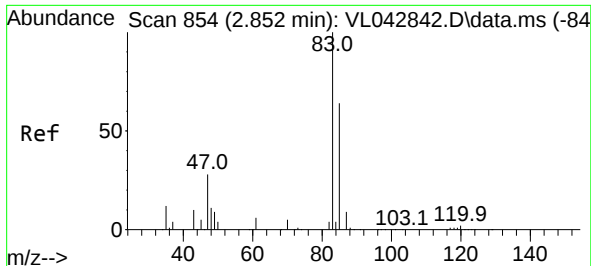
Tgt Ion:	57	Resp:	27976
Ion	Ratio	Lower	Upper
57	100		
41	95.3	68.6	103.0
43	75.5	168.5	252.7#
56	57.5	41.5	62.3



#27
Carbon Disulfide
Concen: 0.083 ppbv
RT: 2.150 min Scan# 637
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion:	76	Resp:	1516
Ion	Ratio	Lower	Upper
76	100		
44	101.0	15.9	23.9#
78	9.6	9.5	14.3





#29

Chloroform

Concen: 0.336 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

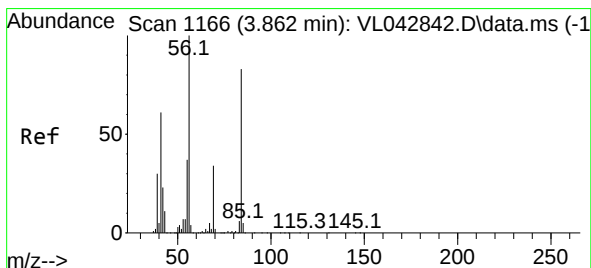
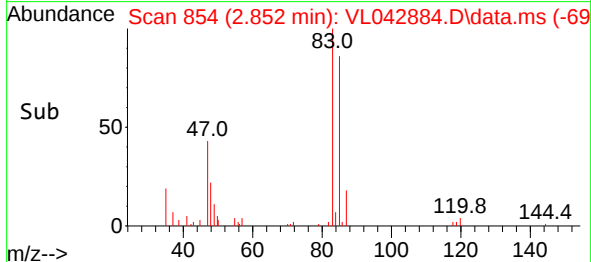
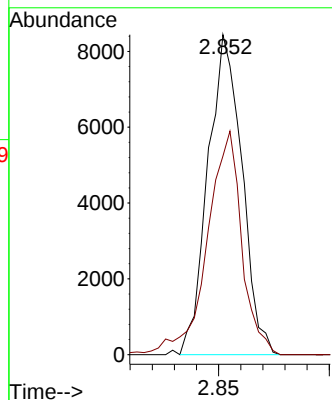
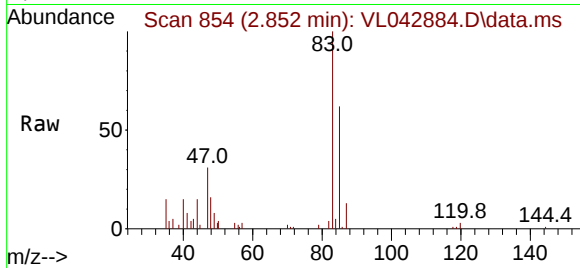
SV1

Tgt Ion: 83 Resp: 9020

Ion Ratio Lower Upper

83 100

85 62.1 51.1 76.7



#30

Cyclohexane

Concen: 0.066 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.007 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

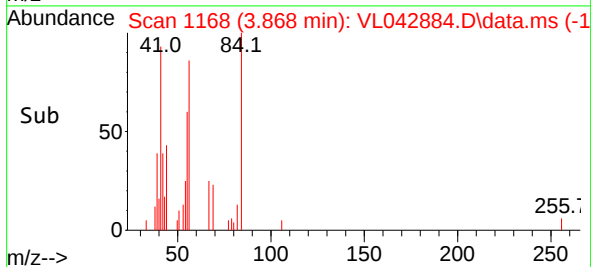
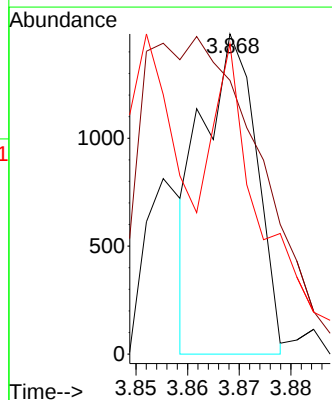
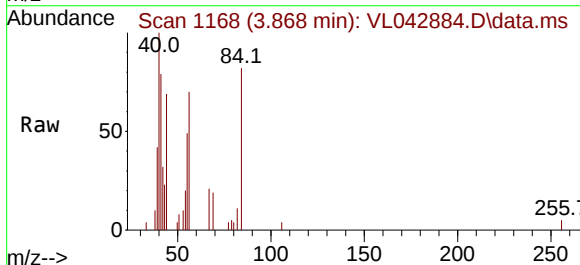
Tgt Ion: 84 Resp: 1092

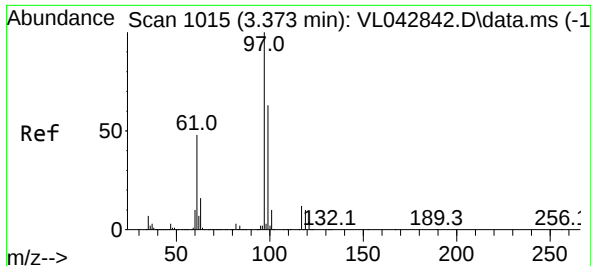
Ion Ratio Lower Upper

84 100

56 254.9 98.8 148.2#

41 0.0 61.3 91.9#

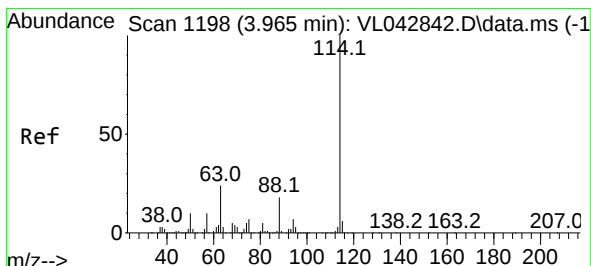
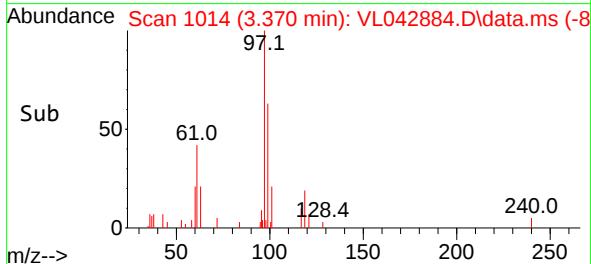
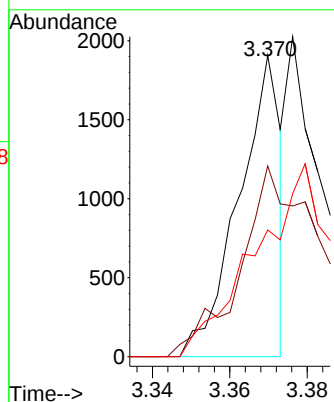
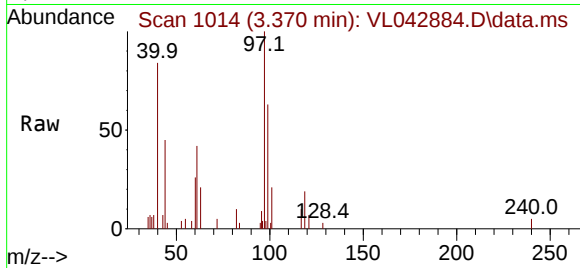




#32
 1,1,1-Trichloroethane
 Concen: 0.051 ppbv
 RT: 3.370 min Scan# 110
 Delta R.T. -0.003 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

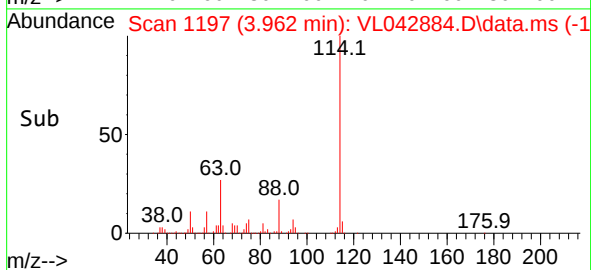
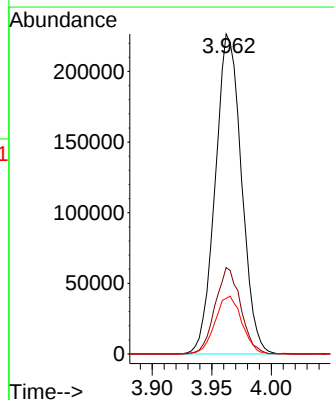
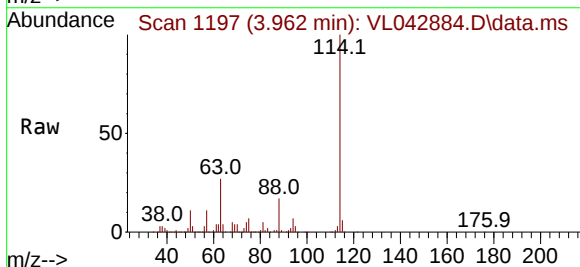
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

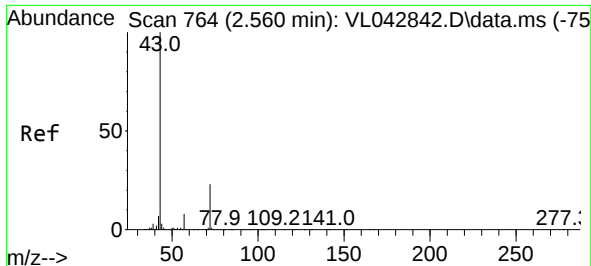
Tgt Ion: 97	Resp: 1442		
Ion Ratio	Lower	Upper	
97	100		
99	115.2	51.0	76.6#
61	0.0	38.0	57.0#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. -0.003 min
 Lab File: VL042884.D
 Acq: 26 Aug 2025 14:29

Tgt Ion:114	Resp: 346383
Ion Ratio	Lower Upper
114 100	
63 26.2	19.7 29.5
88 18.5	14.4 21.6

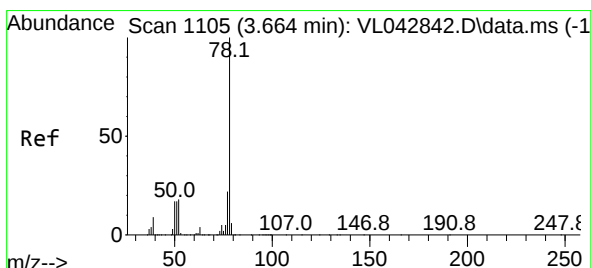
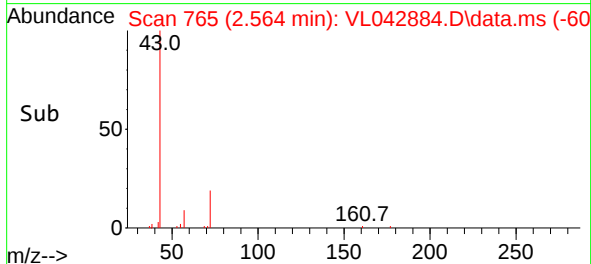
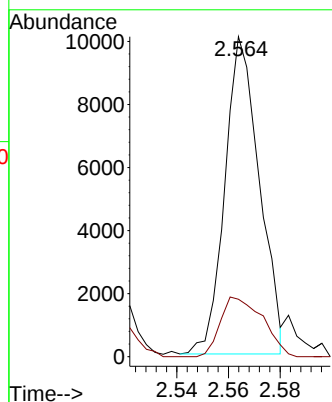
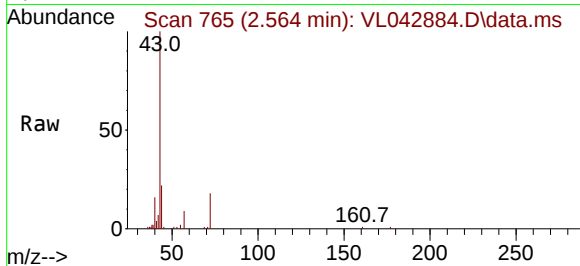




#34
2-Butanone
Concen: 0.400 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

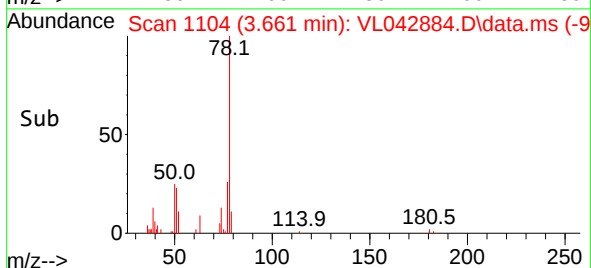
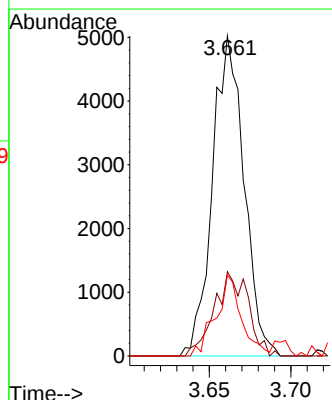
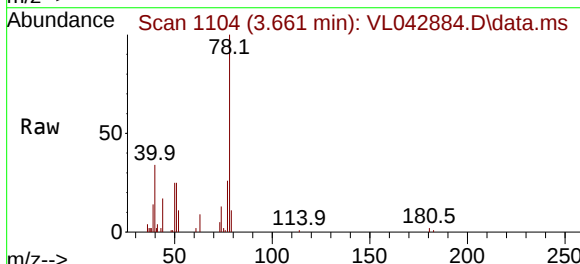
Instrument :
MSVOA_L
ClientSampleId :
SV1

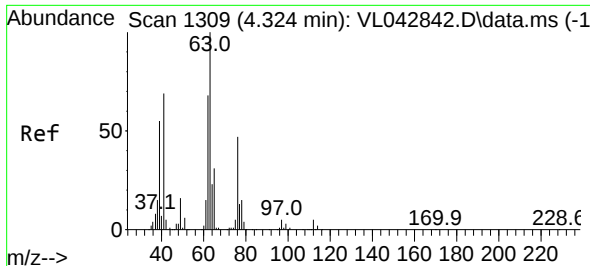
Tgt Ion: 43 Resp: 9363
Ion Ratio Lower Upper
43 100
72 23.0 18.6 28.0



#36
Benzene
Concen: 0.204 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 78 Resp: 6760
Ion Ratio Lower Upper
78 100
77 26.4 17.7 26.5
50 25.3 13.9 20.9#





#39

1,2-Dichloropropane

Concen: 7.499 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.362 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

SV1

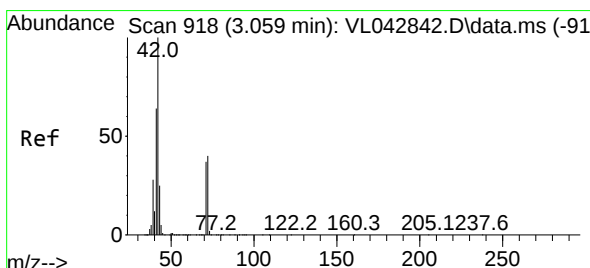
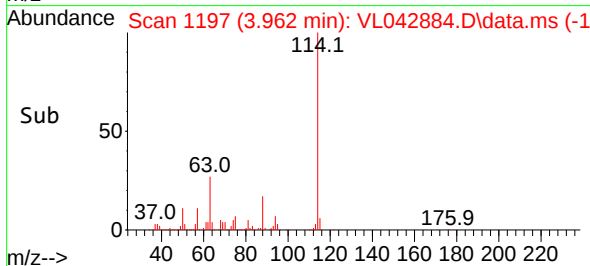
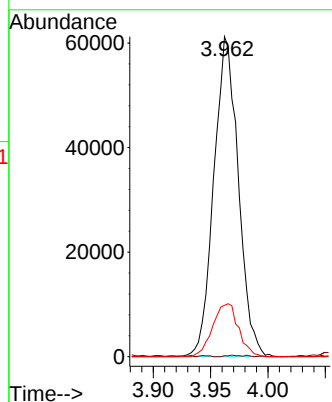
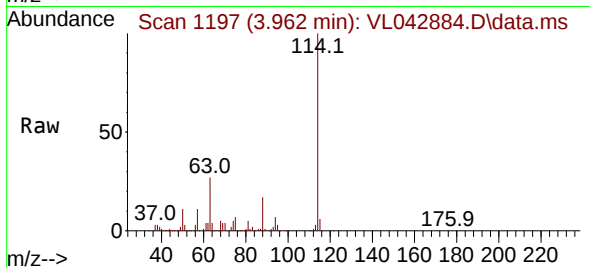
Tgt Ion: 63 Resp: 90847

Ion Ratio Lower Upper

63 100

41 0.3 55.0 82.4#

62 16.0 54.4 81.6#



#41

Tetrahydrofuran

Concen: 0.111 ppbv

RT: 3.069 min Scan# 921

Delta R.T. 0.010 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

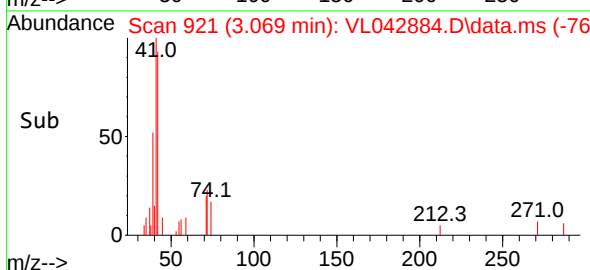
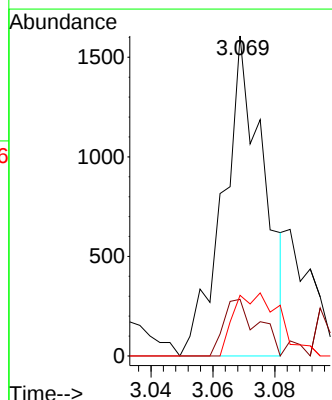
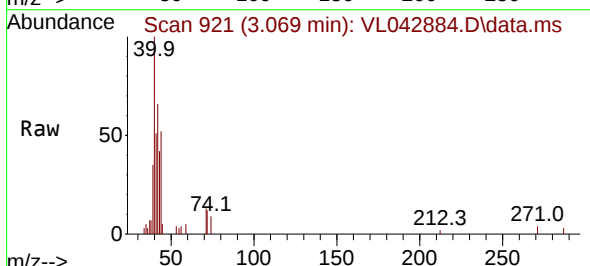
Tgt Ion: 42 Resp: 1453

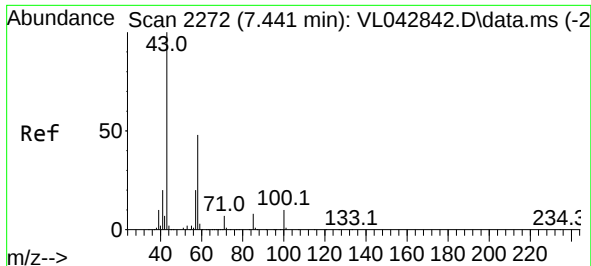
Ion Ratio Lower Upper

42 100

72 16.9 32.6 48.8#

71 22.6 30.0 45.0#

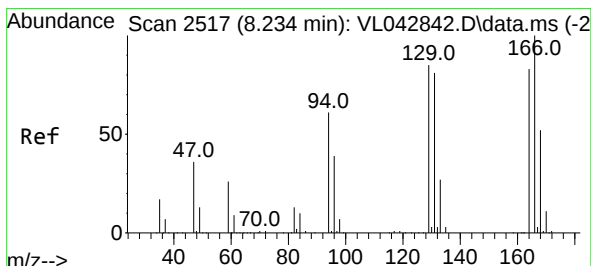
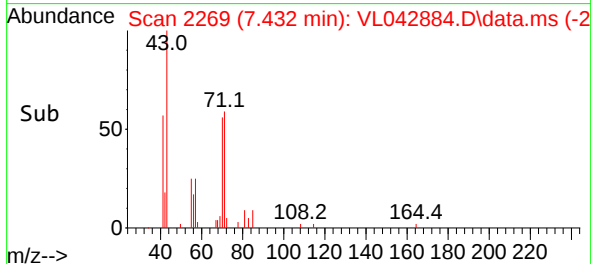
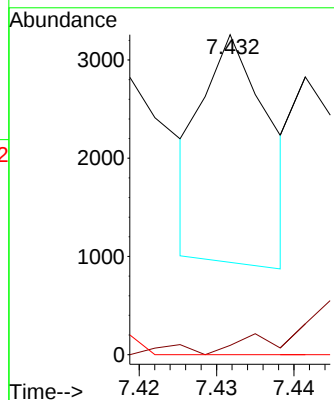
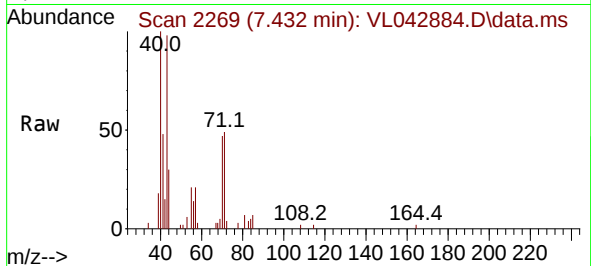




#51
2-Hexanone
Concen: 0.055 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

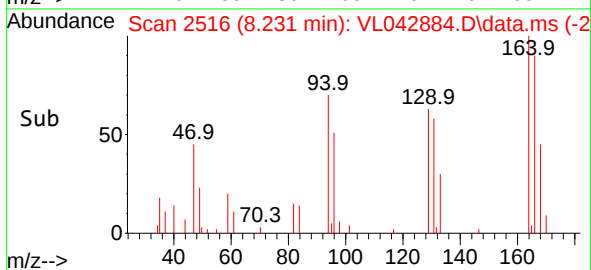
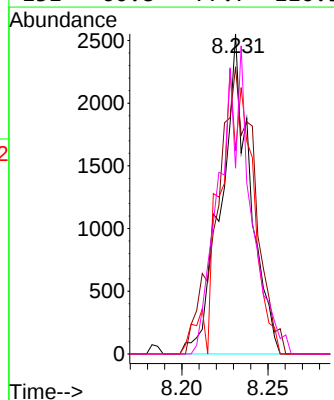
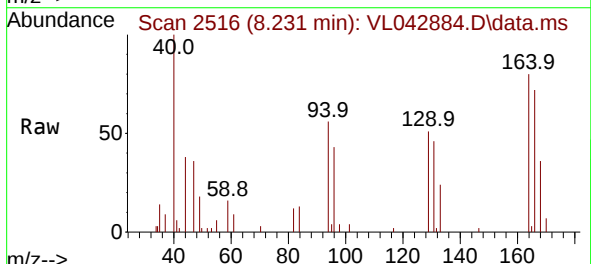
Instrument :
MSVOA_L
ClientSampleId :
SV1

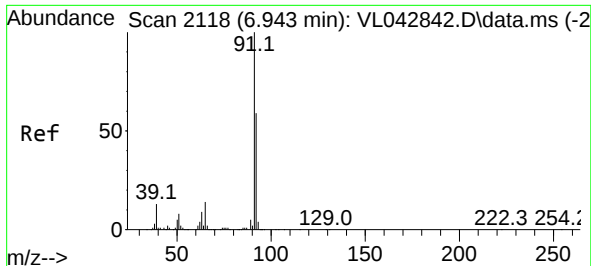
Tgt Ion: 43 Resp: 1361
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.249 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 164 Resp: 2993
Ion Ratio Lower Upper
164 100
166 89.8 96.5 144.7#
129 63.5 81.8 122.6#
131 60.8 77.7 116.5#

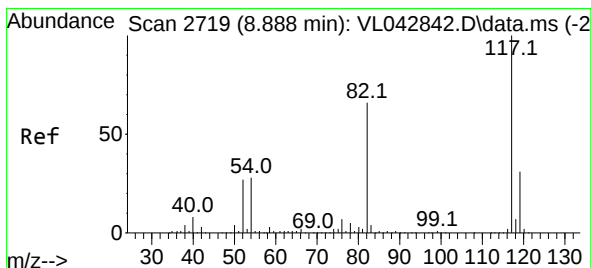
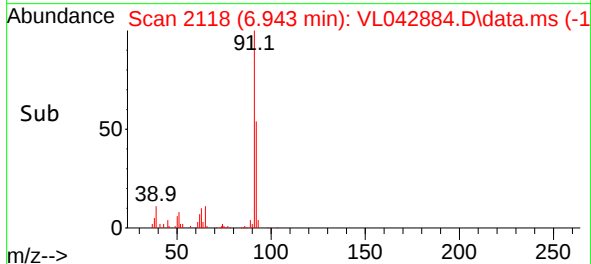
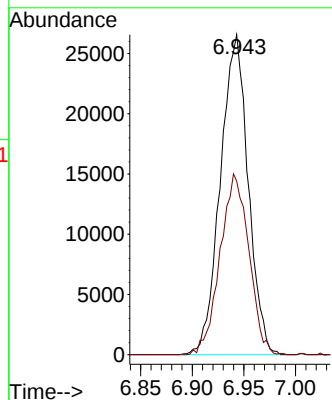
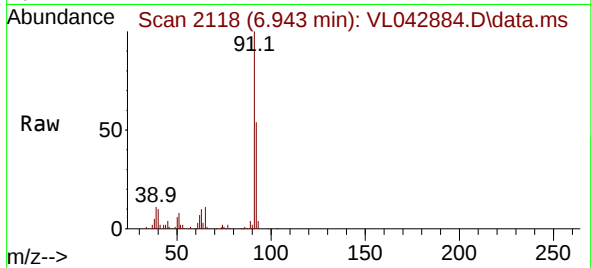




#53
Toluene
Concen: 1.260 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

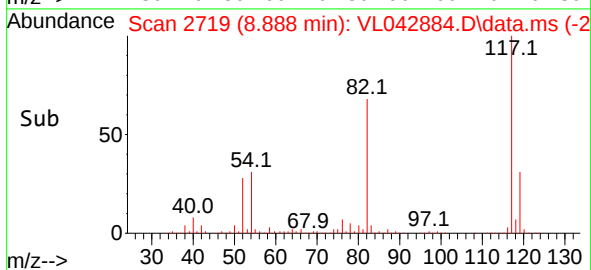
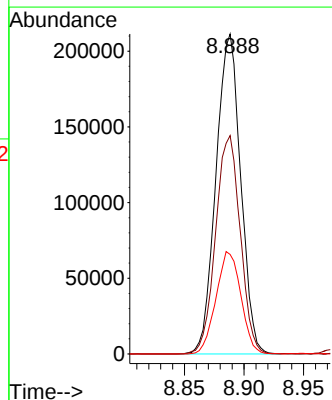
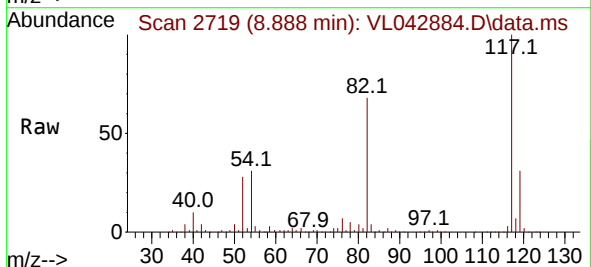
Instrument :
MSVOA_L
ClientSampleId :
SV1

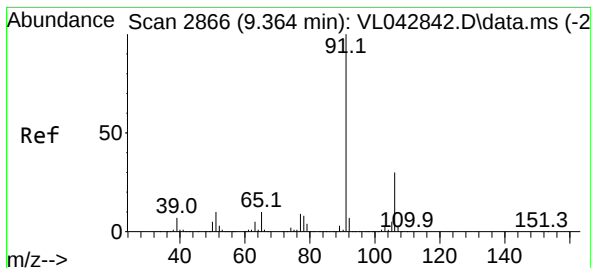
Tgt Ion: 91 Resp: 49705
Ion Ratio Lower Upper
91 100
92 58.5 47.8 71.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 117 Resp: 304552
Ion Ratio Lower Upper
117 100
82 68.1 54.6 81.8
119 32.2 25.9 38.9





#58

Ethyl Benzene

Concen: 2.774 ppbv

RT: 9.361 min Scan# 2865

Delta R.T. -0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

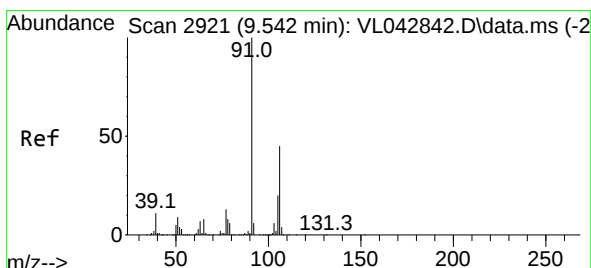
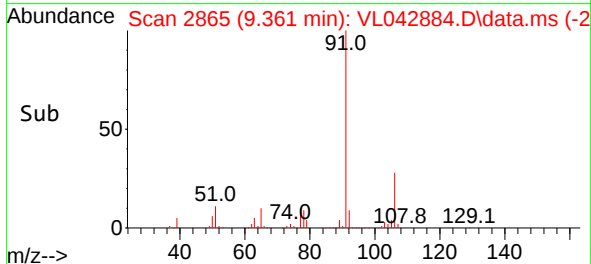
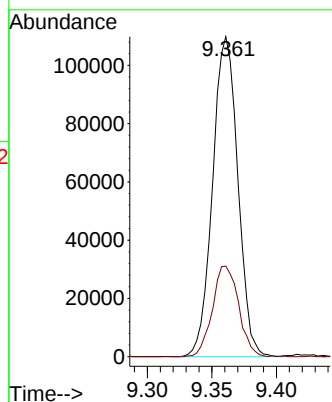
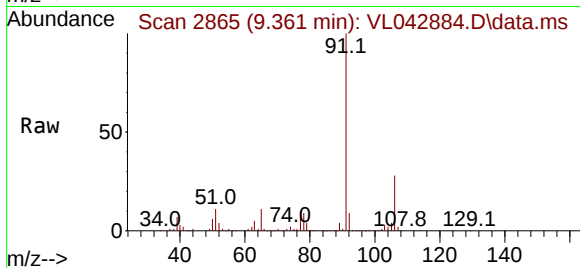
SV1

Tgt Ion: 91 Resp: 149110

Ion Ratio Lower Upper

91 100

106 28.3 23.9 35.9



#59

m/p-Xylene

Concen: 0.964 ppbv

RT: 9.539 min Scan# 2920

Delta R.T. -0.003 min

Lab File: VL042884.D

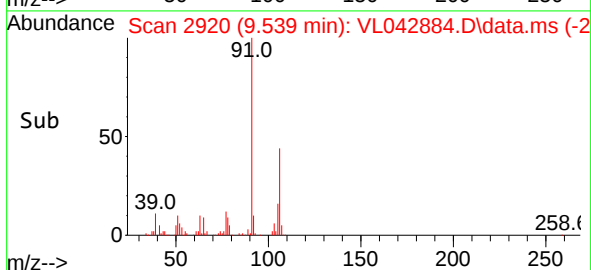
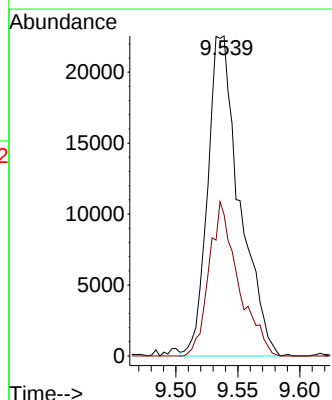
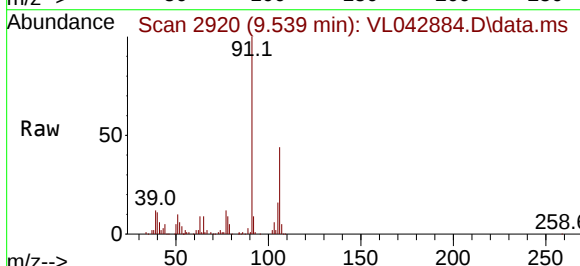
Acq: 26 Aug 2025 14:29

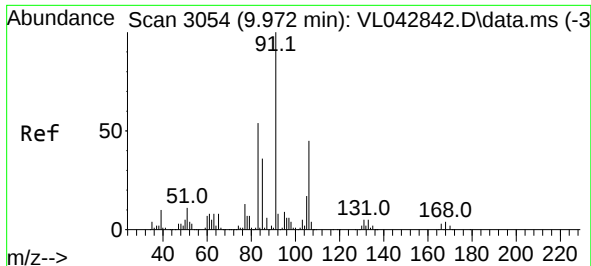
Tgt Ion: 91 Resp: 40622

Ion Ratio Lower Upper

91 100

106 44.0 0.0 0.0#

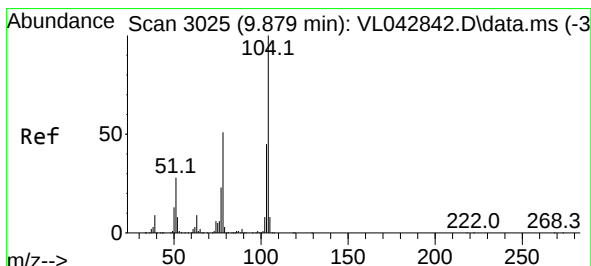
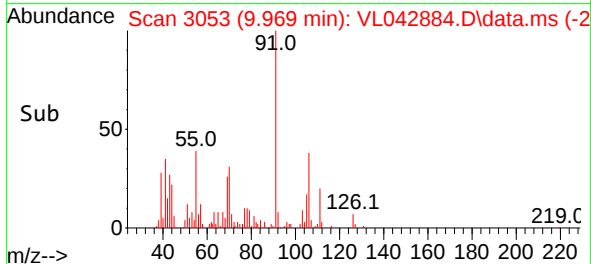
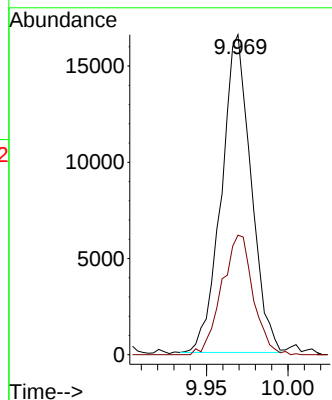
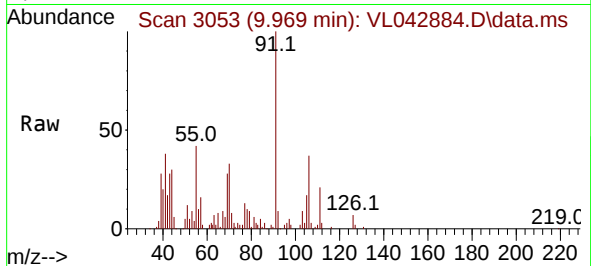




#60
o-Xylene
Concen: 0.492 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

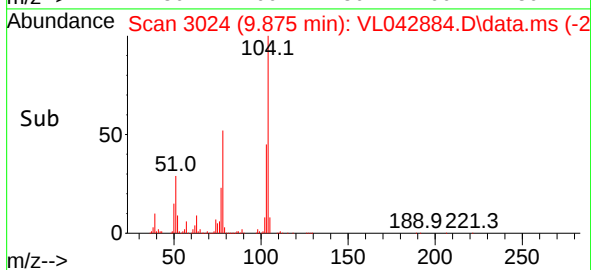
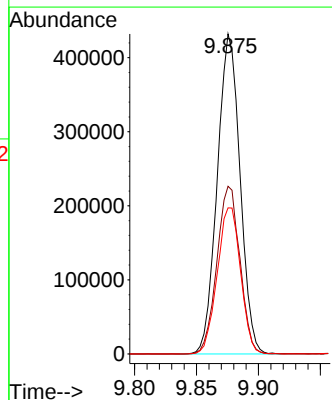
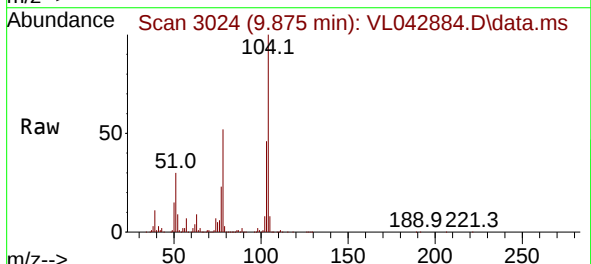
Instrument :
MSVOA_L
ClientSampleId :
SV1

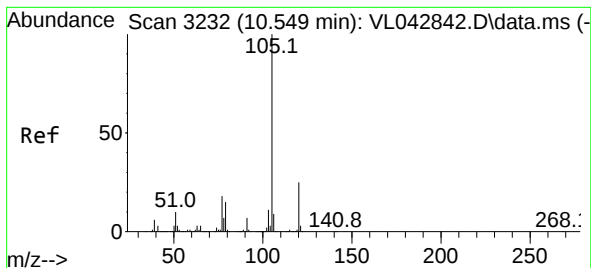
Tgt Ion: 91 Resp: 20845
Ion Ratio Lower Upper
91 100
106 39.7 21.8 65.4



#61
Styrene
Concen: 27.930 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion:104 Resp: 554521
Ion Ratio Lower Upper
104 100
78 52.8 40.6 61.0
103 46.8 37.7 56.5





#62

Isopropylbenzene

Concen: 0.162 ppbv

RT: 10.545 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

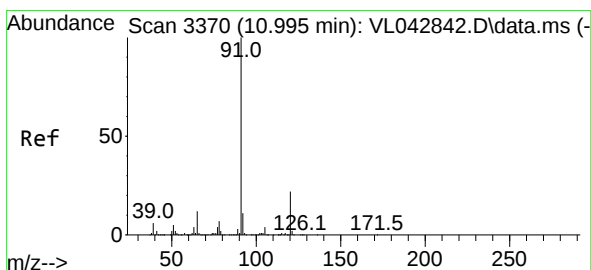
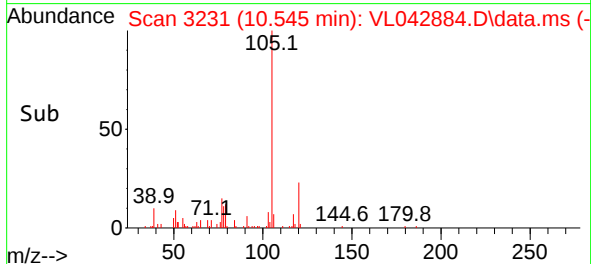
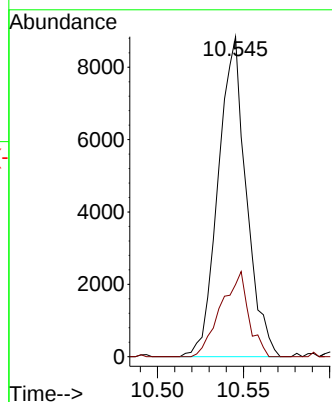
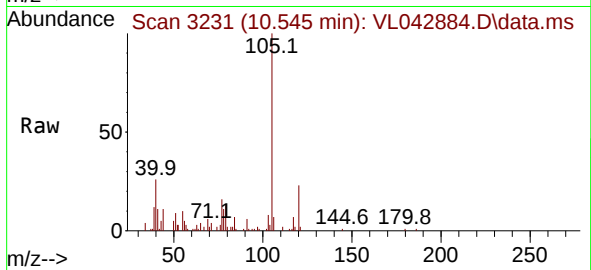
SV1

Tgt Ion:105 Resp: 10042

Ion Ratio Lower Upper

105 100

120 26.2 20.6 30.8



#64

n-propylbenzene

Concen: 0.183 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. -0.003 min

Lab File: VL042884.D

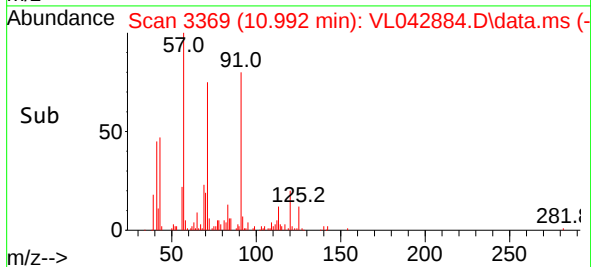
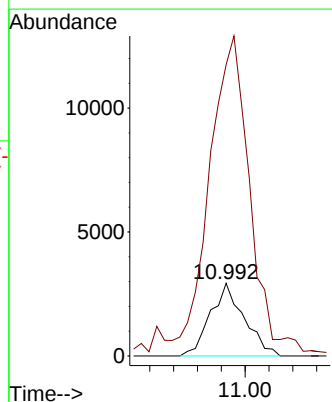
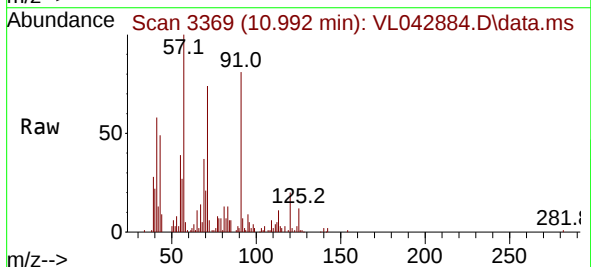
Acq: 26 Aug 2025 14:29

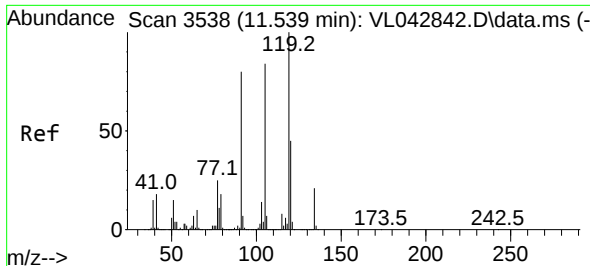
Tgt Ion:120 Resp: 2884

Ion Ratio Lower Upper

120 100

91 547.3 375.8 563.6

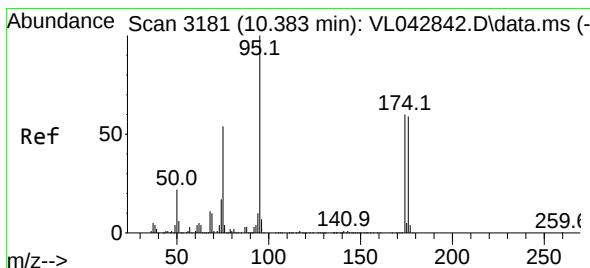
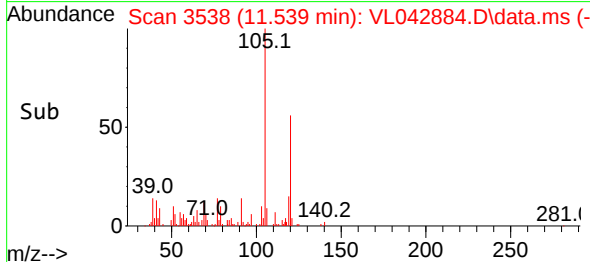
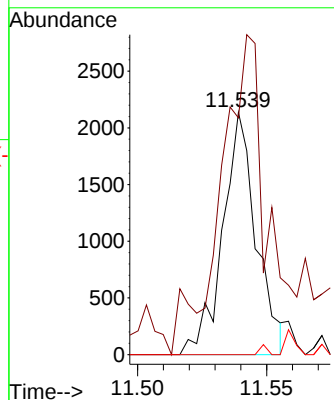
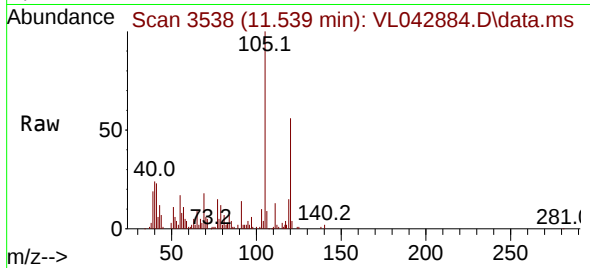




#65
tert-Butylbenzene
Concen: 0.035 ppbv
RT: 11.539 min Scan# 3180
Delta R.T. 0.000 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

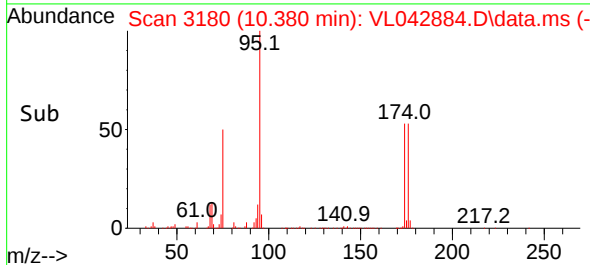
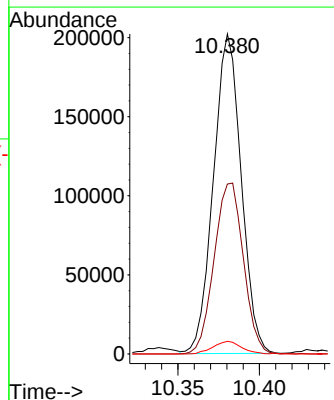
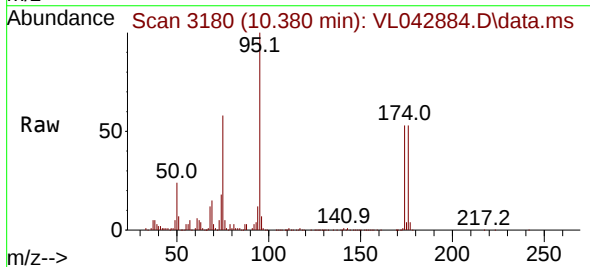
Instrument :
MSVOA_L
ClientSampleId :
SV1

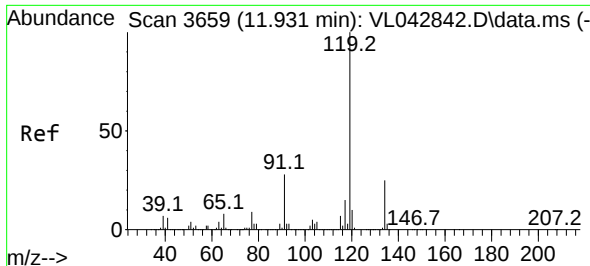
Tgt Ion:119 Resp: 1927
Ion Ratio Lower Upper
119 100
91 194.0 63.9 95.9#
134 0.0 17.0 25.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.465 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 95 Resp: 239031
Ion Ratio Lower Upper
95 100
174 56.3 48.4 72.6
175 4.1 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.059 ppbv

RT: 11.927 min Scan# 3

Delta R.T. -0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

SV1

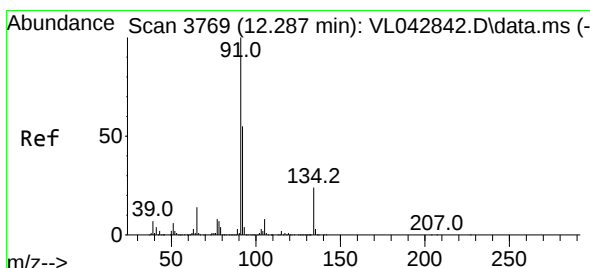
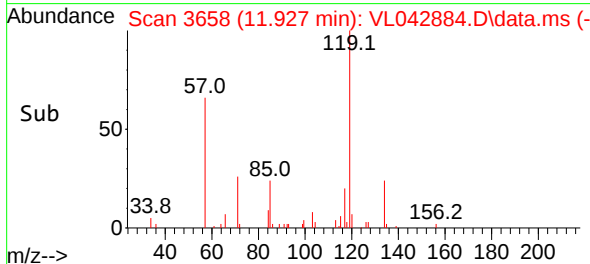
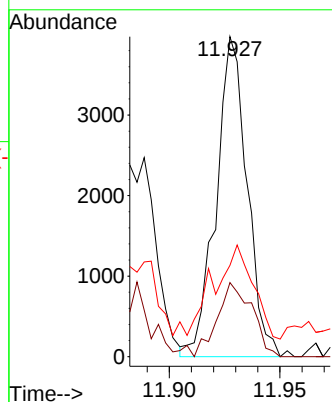
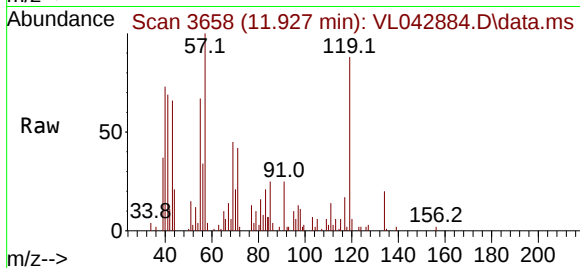
Tgt Ion:119 Resp: 3873

Ion Ratio Lower Upper

119 100

134 25.8 20.6 30.8

91 36.8 22.6 34.0#



#70

n-Butylbenzene

Concen: 0.042 ppbv

RT: 12.355 min Scan# 3790

Delta R.T. 0.068 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

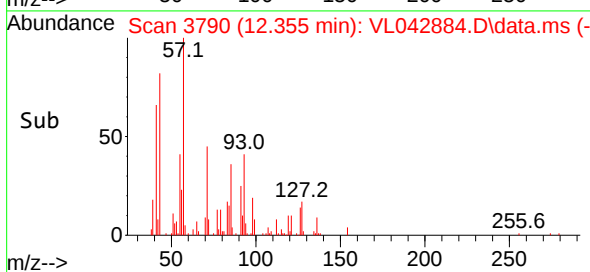
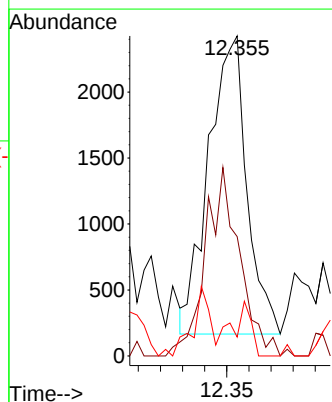
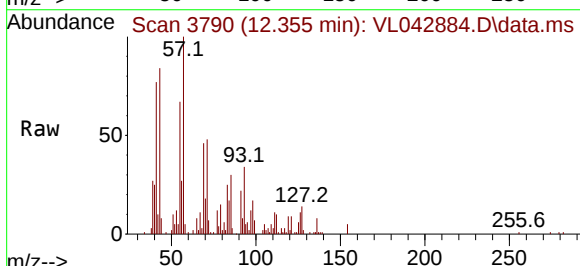
Tgt Ion: 91 Resp: 2713

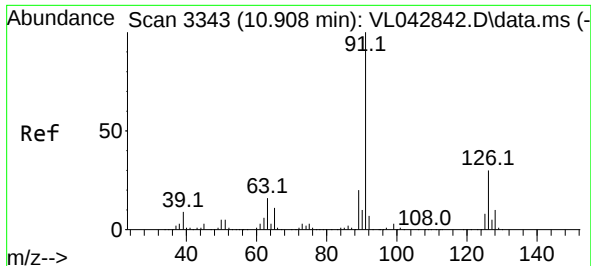
Ion Ratio Lower Upper

91 100

92 56.6 44.6 66.8

134 19.9 19.0 28.4

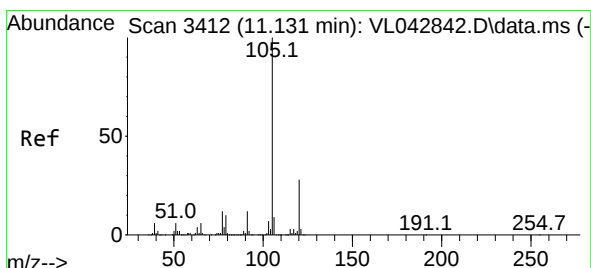
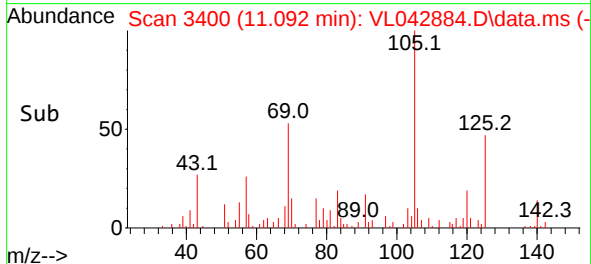
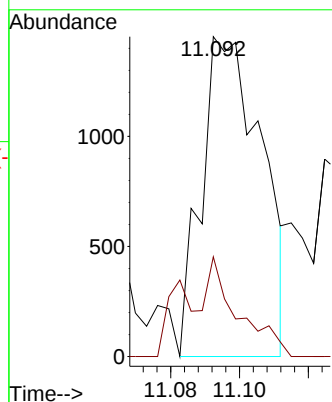
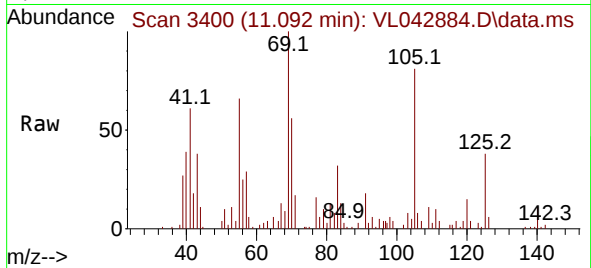




#71
2-Chlorotoluene
Concen: 0.037 ppbv
RT: 11.092 min Scan# 3411
Delta R.T. 0.185 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

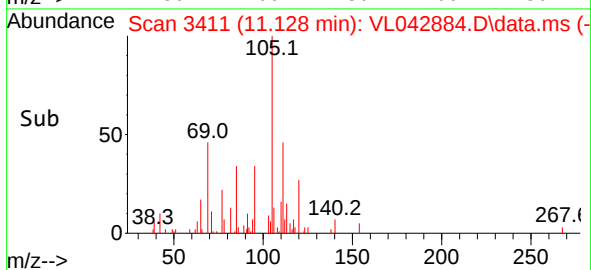
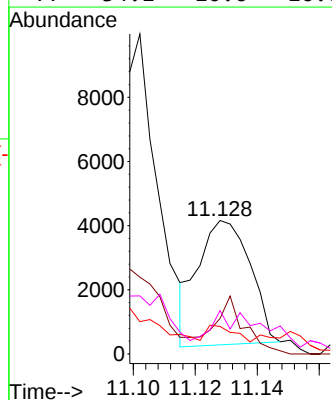
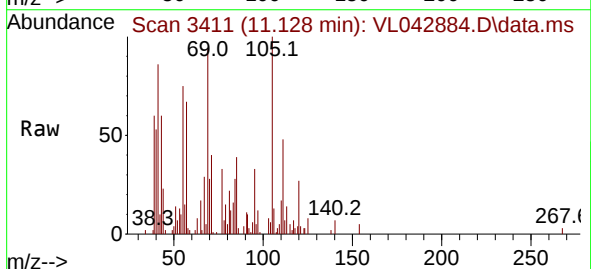
Instrument :
MSVOA_1
ClientSampleId :
SV1

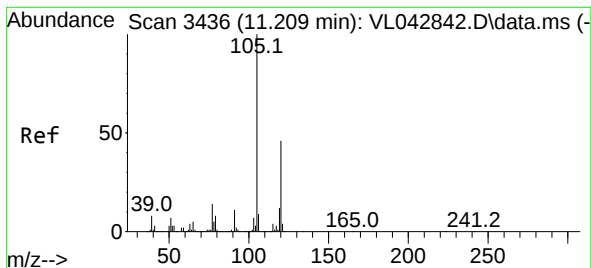
Tgt Ion: 91 Resp: 1766
Ion Ratio Lower Upper
91 100
126 26.6 12.0 47.8



#72
4-Ethyltoluene
Concen: 0.088 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. -0.003 min
Lab File: VL042884.D
Acq: 26 Aug 2025 14:29

Tgt Ion: 105 Resp: 4535
Ion Ratio Lower Upper
105 100
120 0.0 23.4 35.2#
91 0.0 9.8 14.6#
77 34.1 10.6 16.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.151 ppbv

RT: 11.206 min Scan# 3436

Delta R.T. -0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Instrument :

MSVOA_L

ClientSampleId :

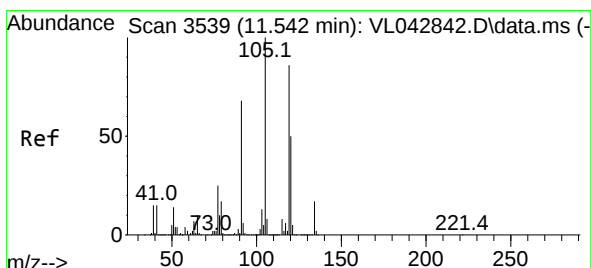
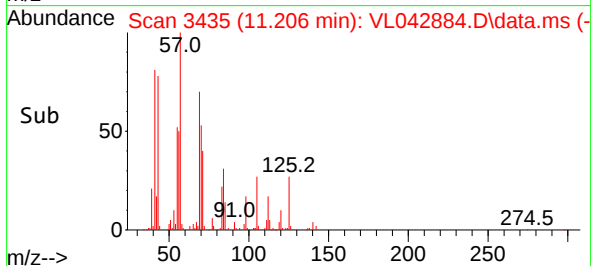
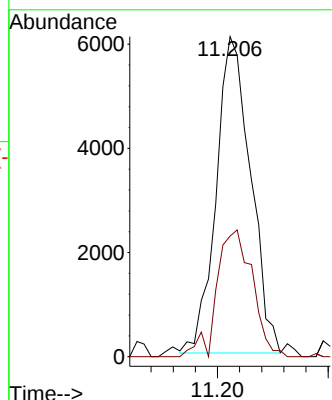
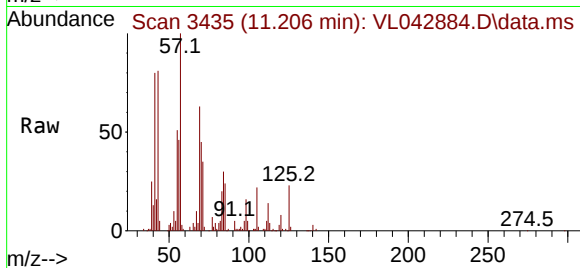
SV1

Tgt Ion:105 Resp: 6575

Ion Ratio Lower Upper

105 100

120 38.1 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 0.339 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Tgt Ion:105 Resp: 16244

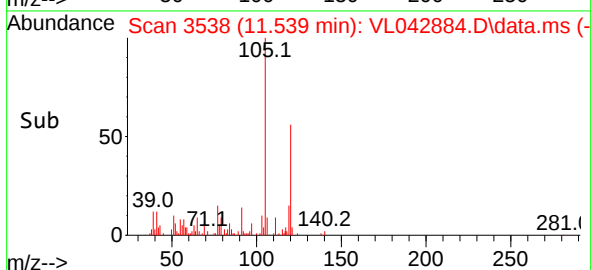
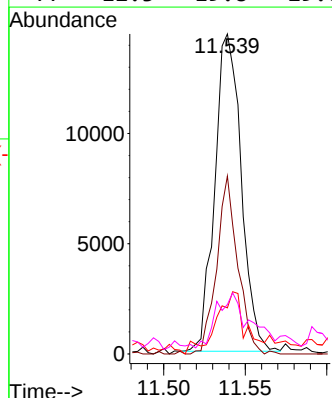
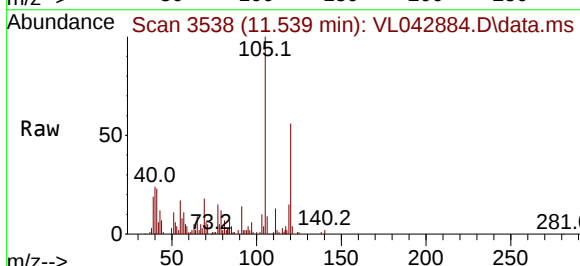
Ion Ratio Lower Upper

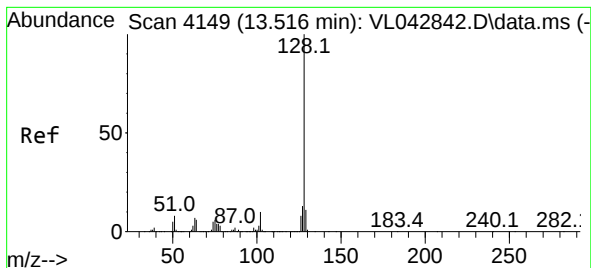
105 100

120 56.1 39.8 59.6

91 13.3 54.2 81.4#

77 12.3 19.8 29.6#





#79

Naphthalene

Concen: 0.047 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

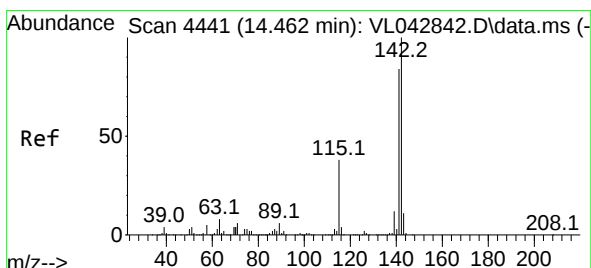
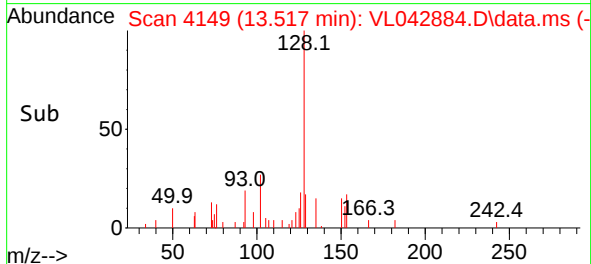
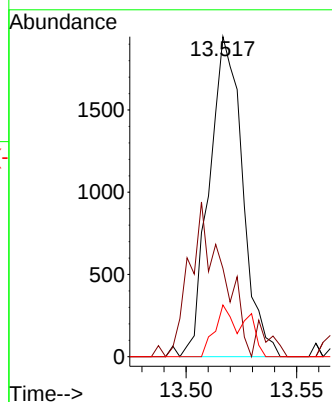
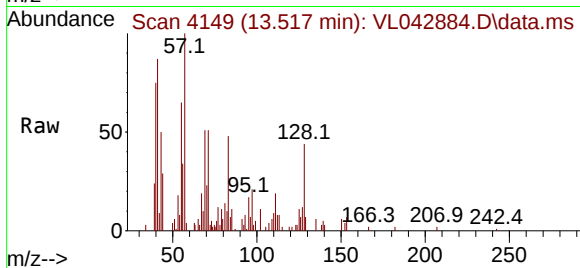
Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:128	Resp:	2042
Ion Ratio	Lower	Upper
128	100	
127	24.0	10.6 16.0#
129	16.2	8.9 13.3#



#80

Naphthalene,2-methyl-

Concen: 0.046 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.007 min

Lab File: VL042884.D

Acq: 26 Aug 2025 14:29

Tgt Ion:142	Resp:	748
Ion Ratio	Lower	Upper
142	100	
141	99.3	67.0 100.6
115	63.4	30.9 46.3#

