

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043223.D
 Acq On : 18 Nov 2025 21:01
 Operator : SY/MD
 Sample : Q3651-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Nov 19 01:40:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	93548	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	242389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	194239	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	146822	10.312	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.100%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1863	0.141	ppbv #	88
3) Chlorodifluoromethane	1.450	51	11580	0.892	ppbv #	68
4) Chloromethane	1.531	50	305	0.062	ppbv #	78
7) Chloroethane	1.460	64	13908	6.619	ppbv #	41
8) Dichlorotetrafluoroethane	1.499	85	1863	0.170	ppbv #	17
9) Propene	1.486	41	3767	0.684	ppbv #	1
10) Heptane	4.965	43	4957	0.302	ppbv #	28
11) Trichlorofluoromethane	1.877	101	14421	1.128	ppbv	94
13) Ethanol	1.719	45	6187	3.193	ppbv	93
15) Acetone	1.832	43	297113	22.860	ppbv	100
16) 1,3-Butadiene	1.618	39	1666	0.288	ppbv #	48
17) tert-Butyl alcohol	1.884	59	1981	0.116	ppbv	100
19) Isopropyl Alcohol	1.884	45	53776	7.322	ppbv #	1
20) Methylene Chloride	2.059	84	119411	32.984	ppbv	96
23) Vinyl Acetate	2.473	43	1408	0.090	ppbv #	51
25) Ethyl Acetate	2.826	43	16299	0.581	ppbv #	84
26) Hexane	2.823	57	19949	1.623	ppbv #	45
27) Carbon Disulfide	2.146	76	1411	0.112	ppbv #	1
30) Cyclohexane	3.852	84	3231	0.314	ppbv #	85
32) 1,1,1-Trichloroethane	3.366	97	834	0.045	ppbv #	15
34) 2-Butanone	2.554	43	62654	3.662	ppbv	100
36) Benzene	3.648	78	2862	0.123	ppbv #	77
39) 1,2-Dichloropropane	3.952	63	64243	7.562	ppbv #	24
41) Tetrahydrofuran	3.056	42	1767	0.187	ppbv #	55
44) 2,2,4-Trimethylpentane	4.622	57	1860	0.047	ppbv #	1
51) 2-Hexanone	7.422	43	3429	0.183	ppbv #	29
52) Tetrachloroethene	8.224	164	573	0.066	ppbv	89
53) Toluene	6.920	91	194541	7.078	ppbv	97
57) Chlorobenzene	8.862	112	3302	0.166	ppbv #	76
58) Ethyl Benzene	9.351	91	19035	0.509	ppbv	99
59) m/p-Xylene	9.526	91	48124	1.606	ppbv	100
60) o-Xylene	9.953	91	16493	0.551	ppbv	97
62) Isopropylbenzene	10.532	105	3627	0.068	ppbv	94
63) 1,1,2,2-Tetrachloroethane	9.940	83	1602	0.084	ppbv #	25
64) n-propylbenzene	10.979	120	881	0.064	ppbv #	19
67) sec-Butylbenzene	11.765	105	2895	0.043	ppbv	99
71) 2-Chlorotoluene	10.985	91	2788	0.068	ppbv	91
72) 4-Ethyltoluene	11.115	105	3105	0.085	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.199	105	3667	0.120	ppbv	95
74) 1,2,4-Trimethylbenzene	11.529	105	7730	0.231	ppbv #	49
80) Naphthalene,2-methyl-	14.465	142	297	0.038	ppbv #	43

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

Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Nov 19 01:40:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

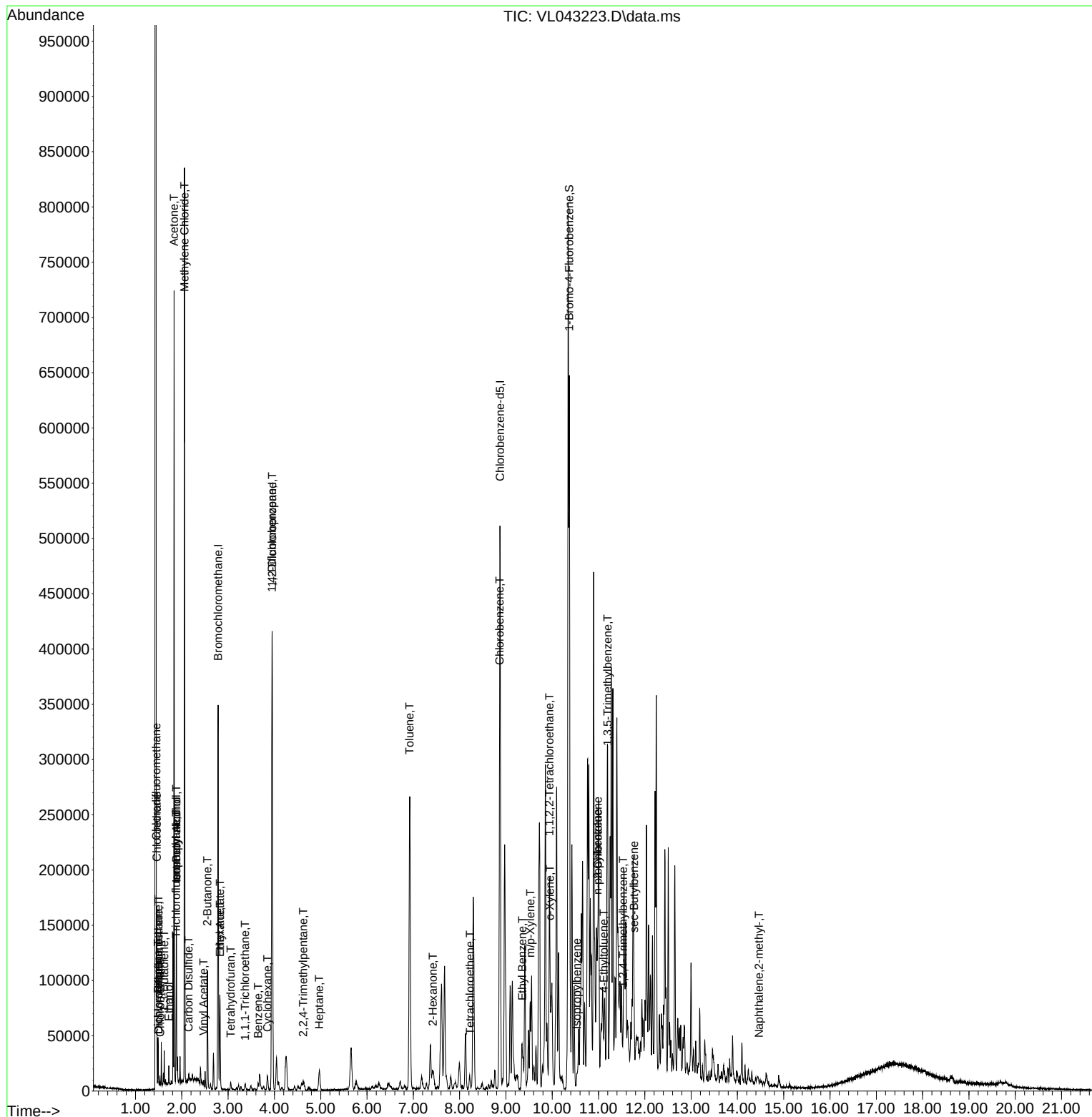
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

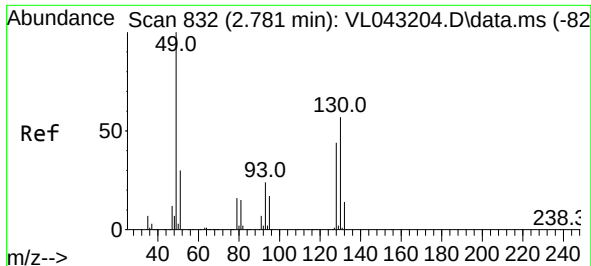
(#)=qualifier out of range (m)=manual integration (+)=signals summed						

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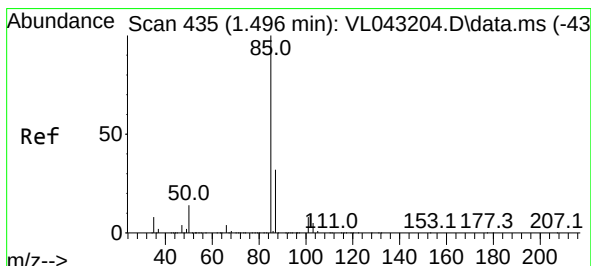
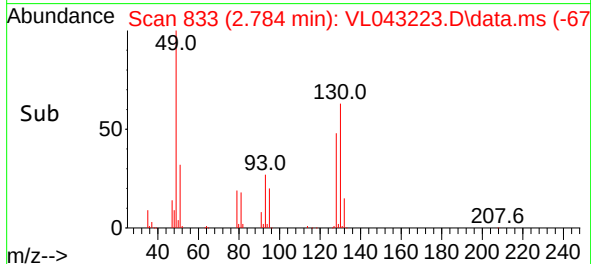
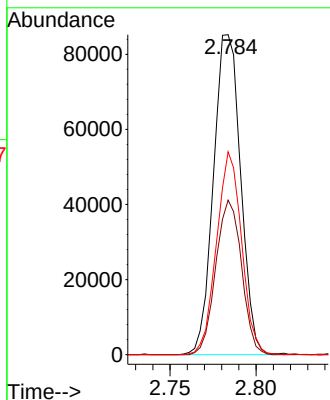
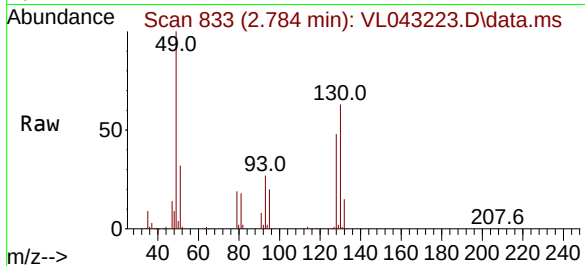




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

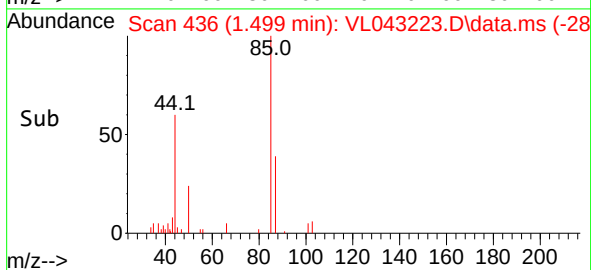
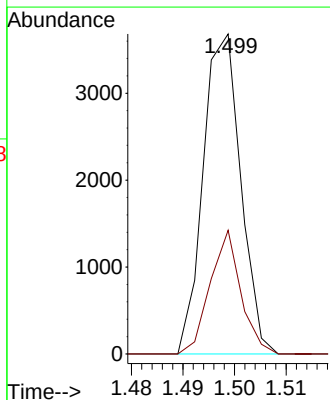
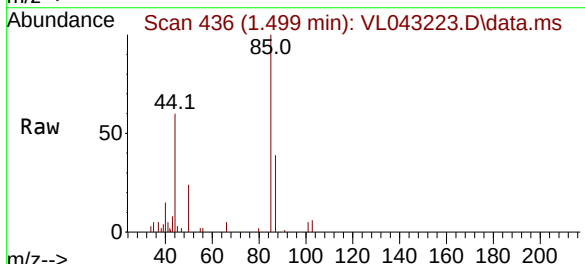
Instrument :
MSVOA_L
ClientSampleId :
SV2

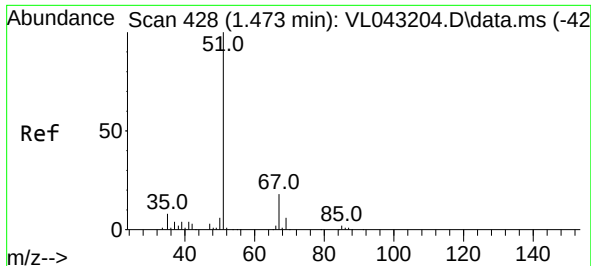
Tgt Ion: 49 Resp: 93548
Ion Ratio Lower Upper
49 100
128 45.8 23.0 69.0
130 58.6 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.141 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 85 Resp: 1863
Ion Ratio Lower Upper
85 100
87 38.6 25.4 38.2#

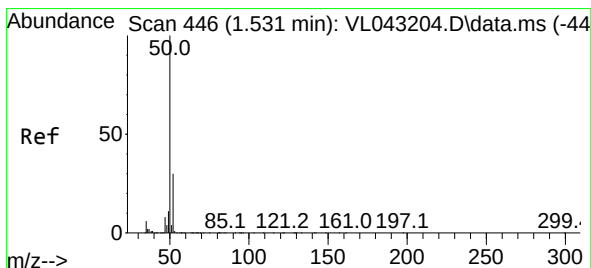
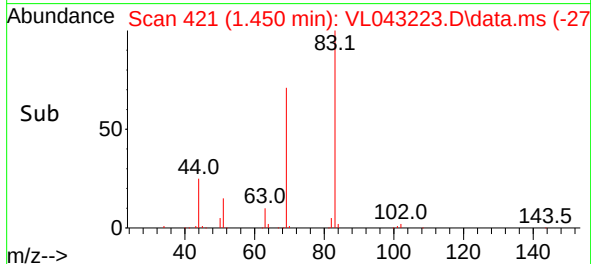
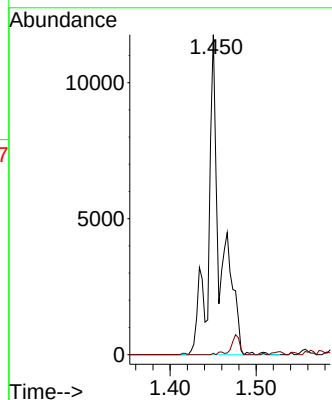
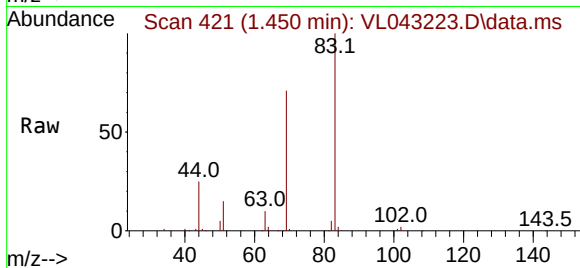




#3
Chlorodifluoromethane
Concen: 0.892 ppbv
RT: 1.450 min Scan# 41
Delta R.T. -0.023 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

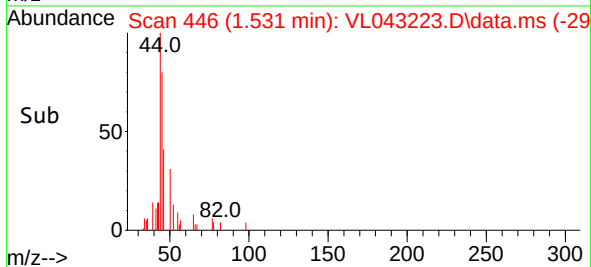
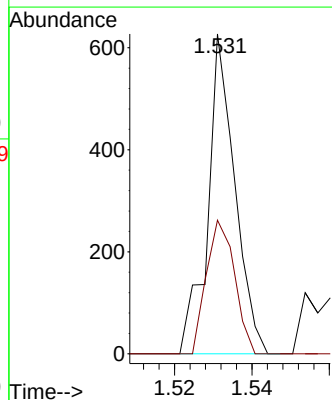
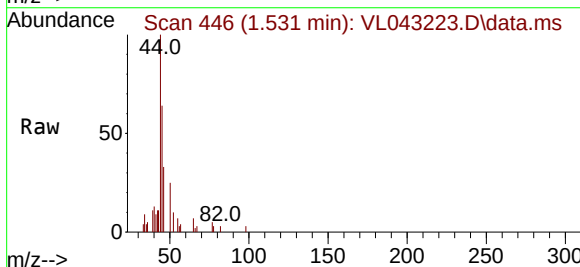
Instrument :
MSVOA_L
ClientSampleId :
SV2

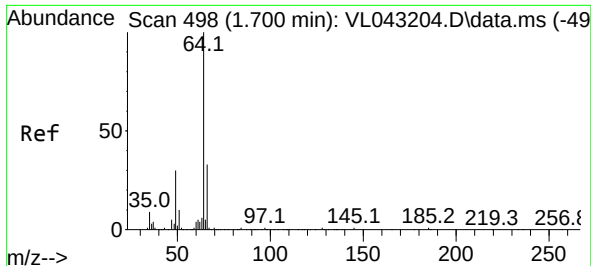
Tgt Ion: 51 Resp: 11580
Ion Ratio Lower Upper
51 100
67 4.3 14.9 22.3#



#4
Chloromethane
Concen: 0.062 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 50 Resp: 305
Ion Ratio Lower Upper
50 100
52 41.8 24.1 36.1#

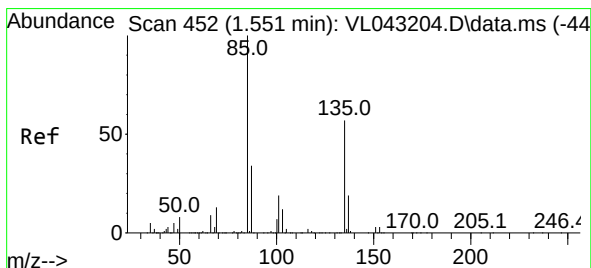
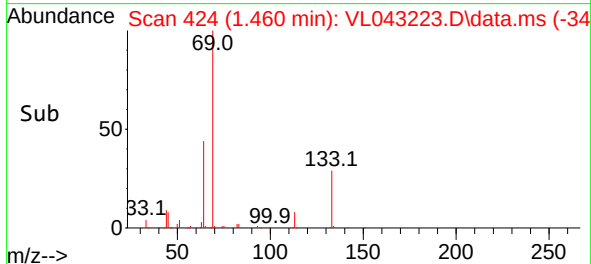
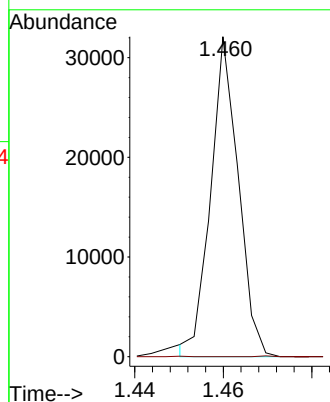
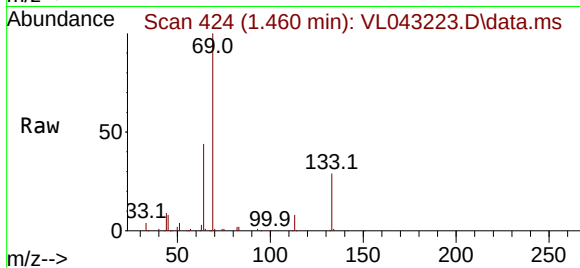




#7
Chloroethane
Concen: 6.619 ppbv
RT: 1.460 min Scan# 41
Delta R.T. -0.240 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

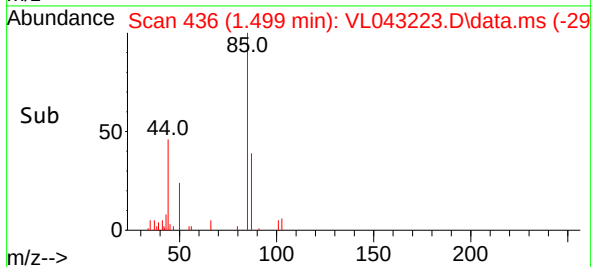
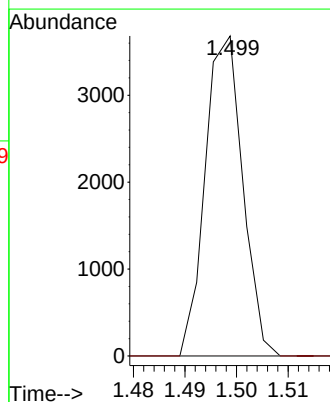
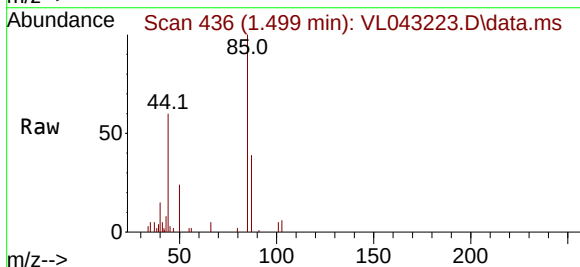
Instrument :
MSVOA_L
ClientSampleId :
SV2

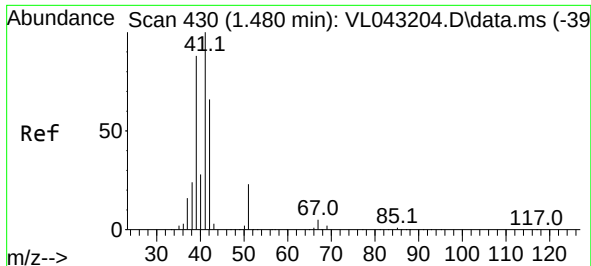
Tgt Ion: 64 Resp: 13908
Ion Ratio Lower Upper
64 100
66 0.0 26.8 40.2#



#8
Dichlorotetrafluoroethane
Concen: 0.170 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.052 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 85 Resp: 1863
Ion Ratio Lower Upper
85 100
135 0.0 52.6 79.0#





#9

Propene

Concen: 0.684 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

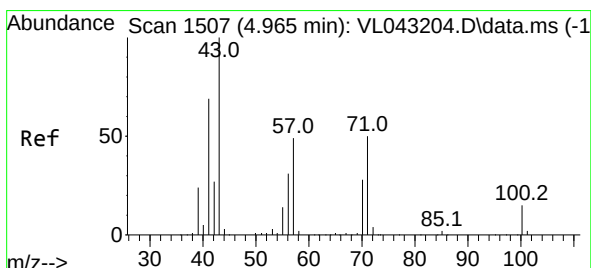
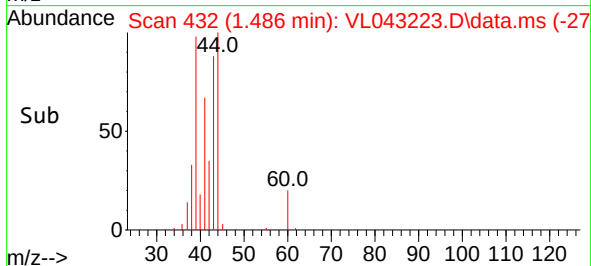
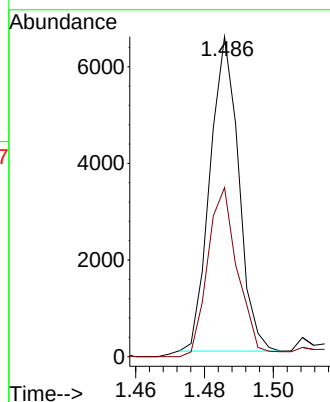
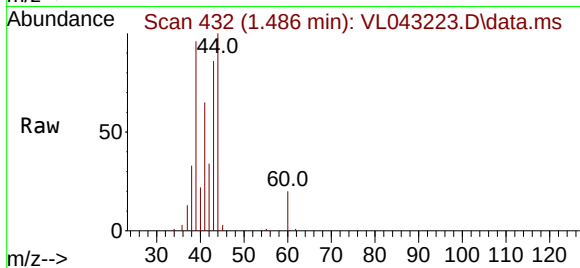
SV2

Tgt Ion: 41 Resp: 3767

Ion Ratio Lower Upper

41 100

42 62.5 3.7 5.5#



#10

Heptane

Concen: 0.302 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. -0.000 min

Lab File: VL043223.D

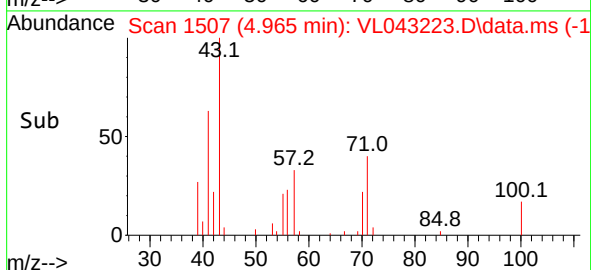
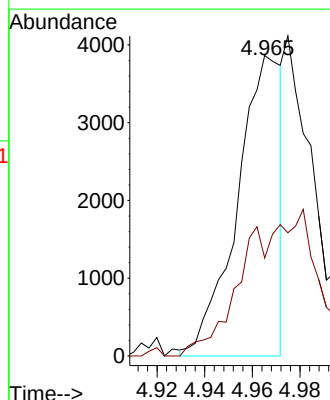
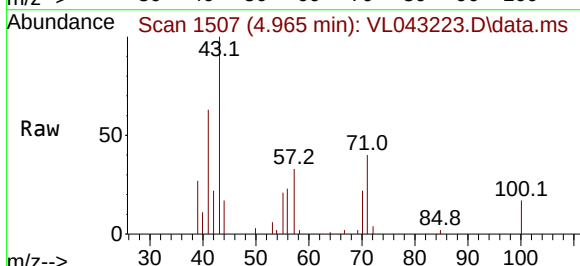
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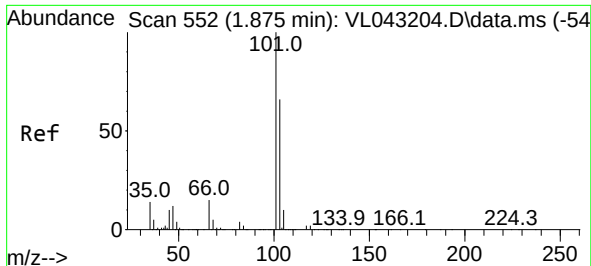
Tgt Ion: 43 Resp: 4957

Ion Ratio Lower Upper

43 100

57 0.0 39.7 59.5#

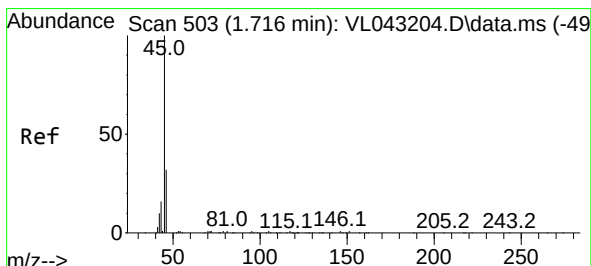
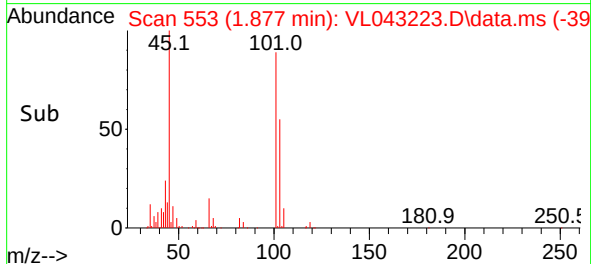
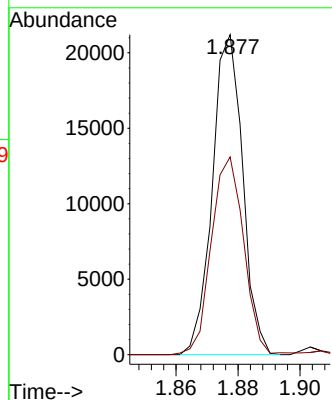
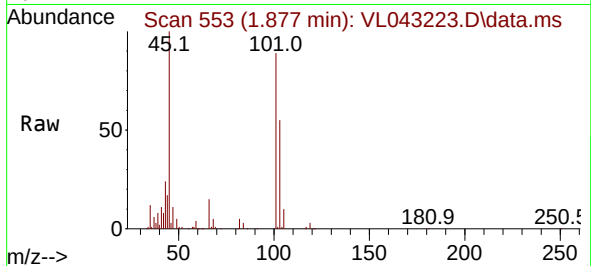




#11
Trichlorofluoromethane
Concen: 1.128 ppbv
RT: 1.877 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

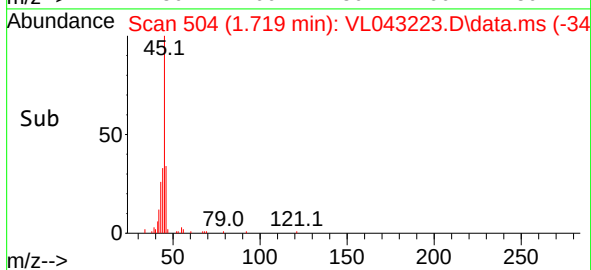
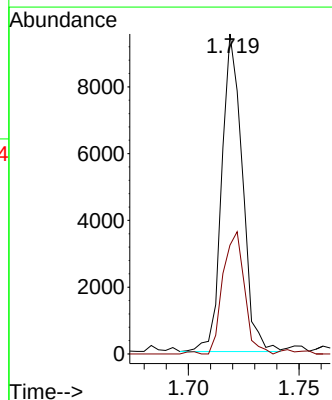
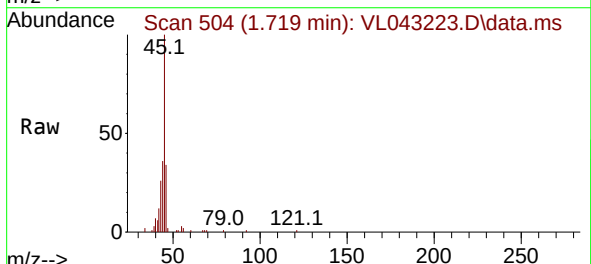
Instrument :
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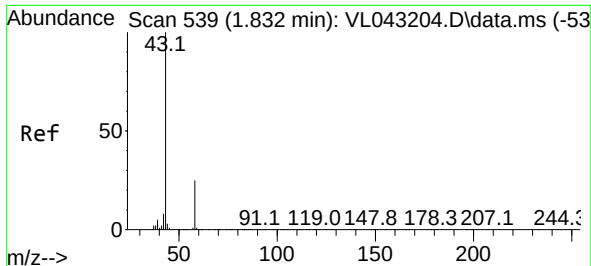
Tgt Ion:101 Resp: 14421
Ion Ratio Lower Upper
101 100
103 61.3 52.6 79.0



#13
Ethanol
Concen: 3.193 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 45 Resp: 6187
Ion Ratio Lower Upper
45 100
46 41.7 15.0 59.8

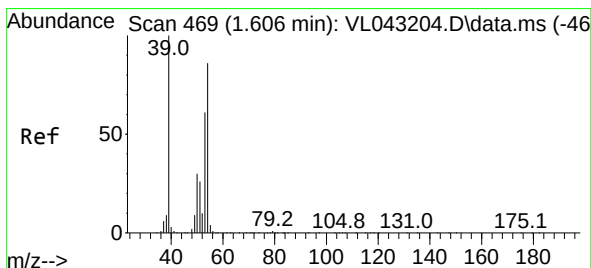
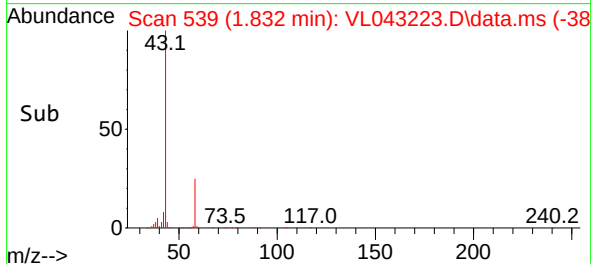
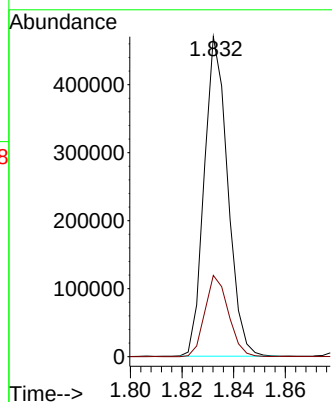
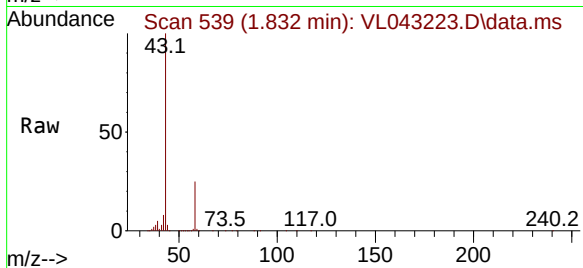




#15
Acetone
Concen: 22.860 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

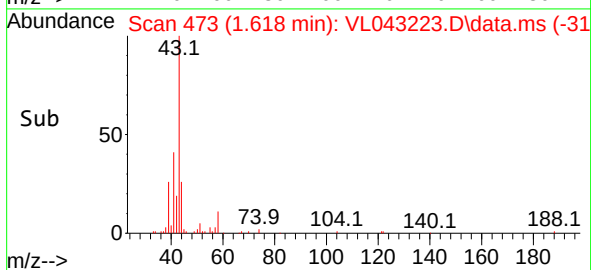
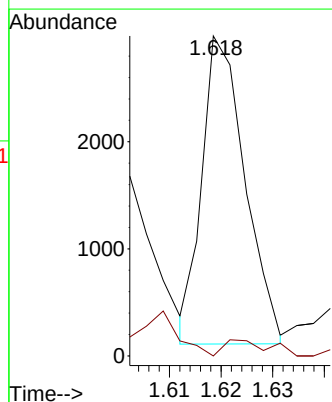
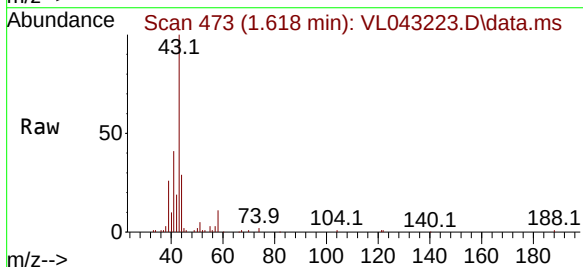
Instrument :
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ClientSampleId :
SV2

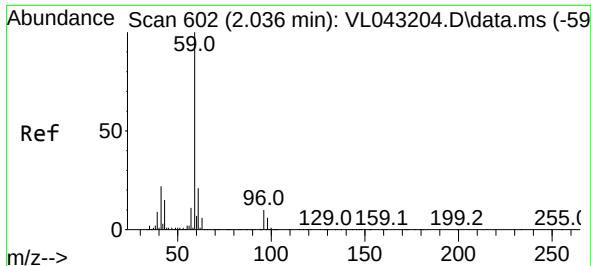
Tgt Ion: 43 Resp: 297113
Ion Ratio Lower Upper
43 100
58 25.7 20.7 31.1



#16
1,3-Butadiene
Concen: 0.288 ppbv
RT: 1.618 min Scan# 473
Delta R.T. 0.013 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 39 Resp: 1666
Ion Ratio Lower Upper
39 100
54 30.3 59.4 89.2#

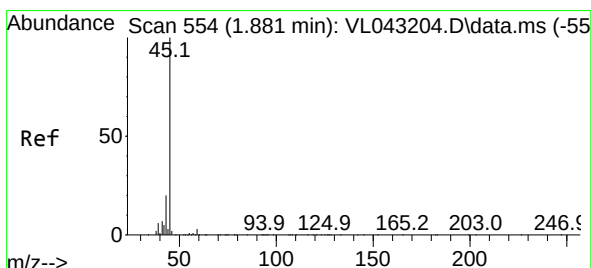
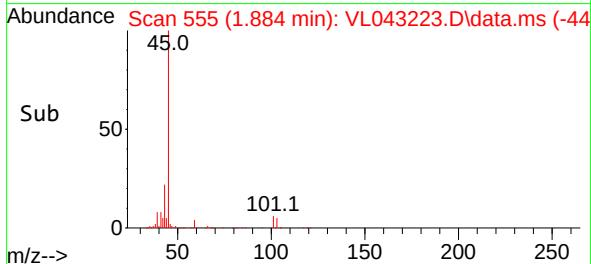
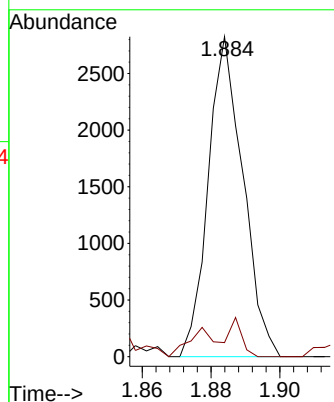
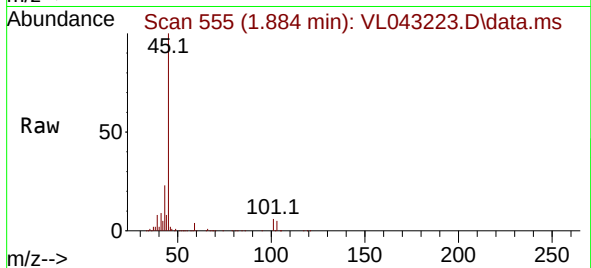




#17
tert-Butyl alcohol
Concen: 0.116 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.152 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

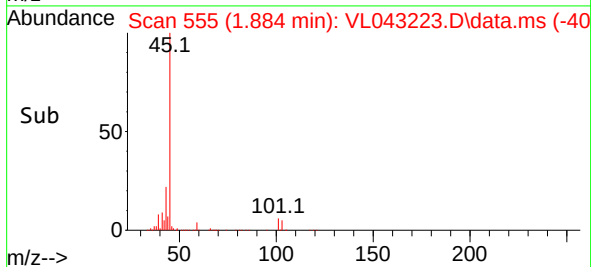
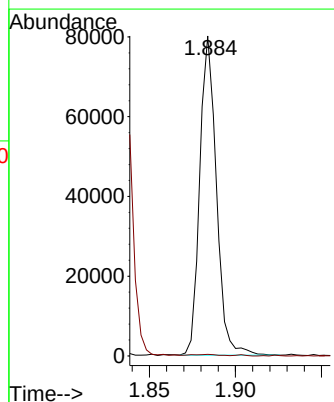
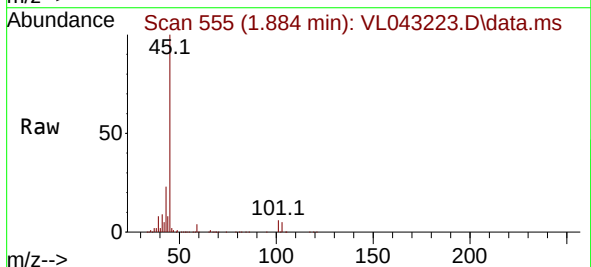
Instrument :
MSVOA_L
ClientSampleId :
SV2

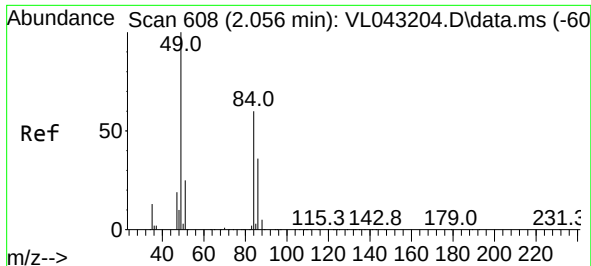
Tgt Ion: 59 Resp: 1981
Ion Ratio Lower Upper
59 100
57 11.4 9.0 13.4



#19
Isopropyl Alcohol
Concen: 7.322 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 45 Resp: 53776
Ion Ratio Lower Upper
45 100
58 142.2 31.3 46.9#

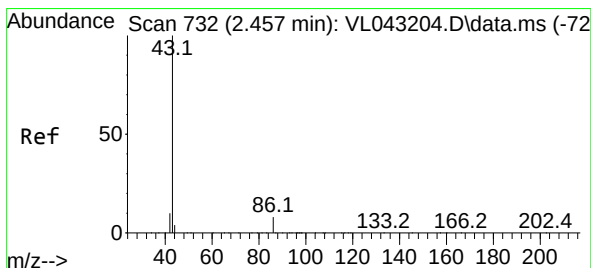
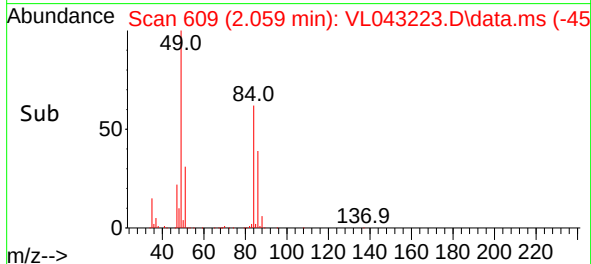
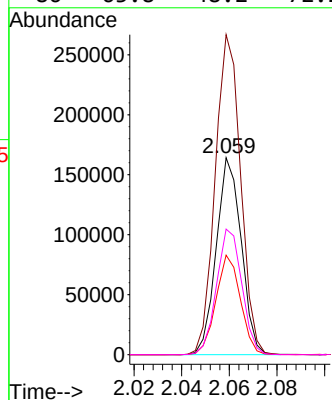
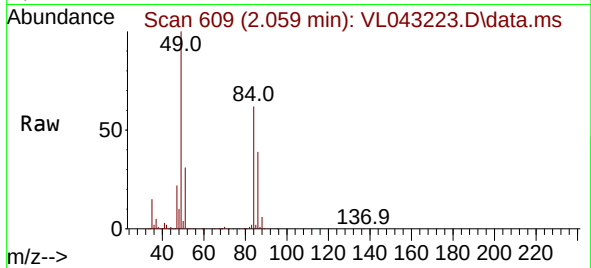




#20
Methylene Chloride
Concen: 32.984 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

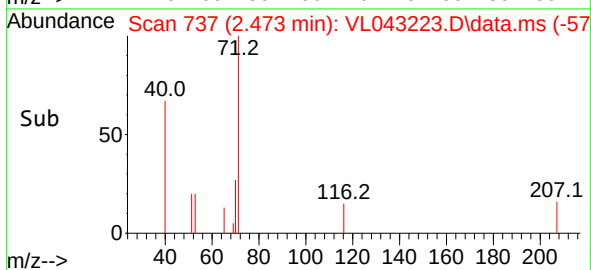
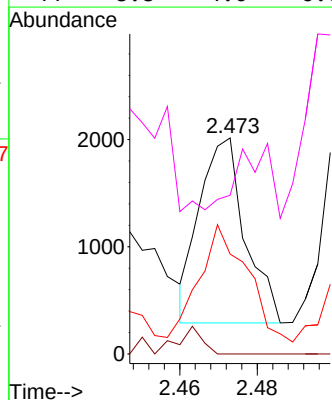
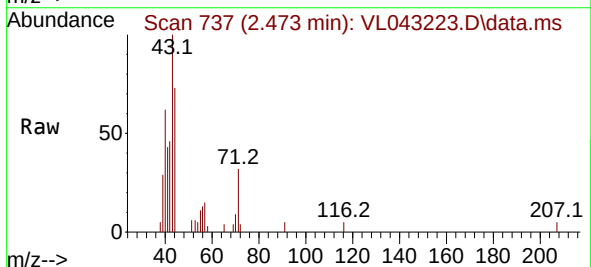
Instrument :
MSVOA_L
ClientSampleId :
SV2

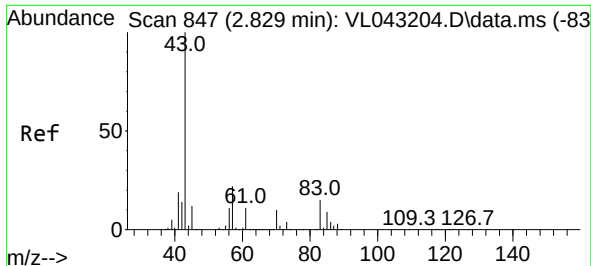
Tgt Ion: 84 Resp: 119411
Ion Ratio Lower Upper
84 100
49 162.5 132.9 199.3
51 50.6 34.8 52.2
86 63.8 48.2 72.2



#23
Vinyl Acetate
Concen: 0.090 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.016 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 43 Resp: 1408
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.2#
42 43.1 8.0 12.0#
44 8.8 4.0 6.0#

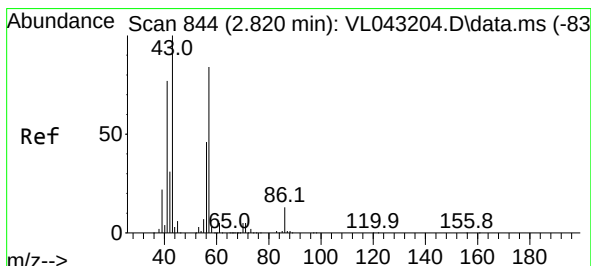
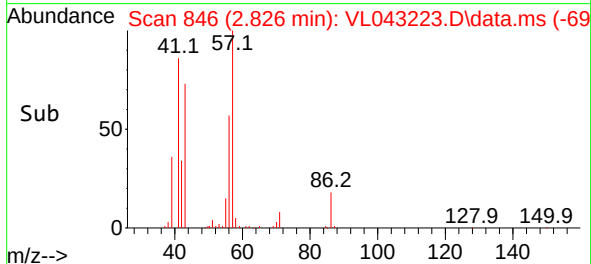
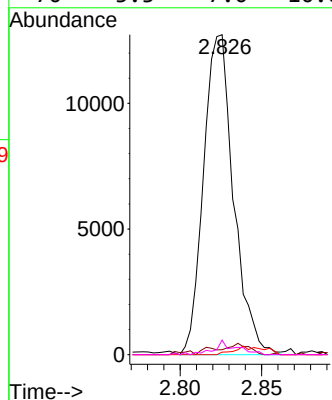
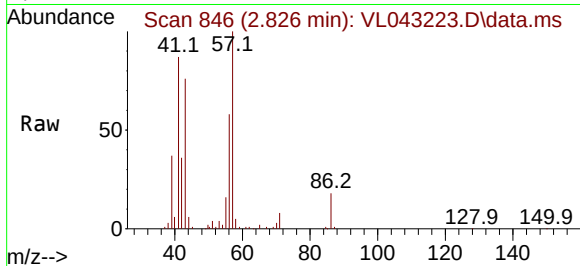




#25
Ethyl Acetate
Concen: 0.581 ppbv
RT: 2.826 min Scan# 845
Delta R.T. -0.004 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

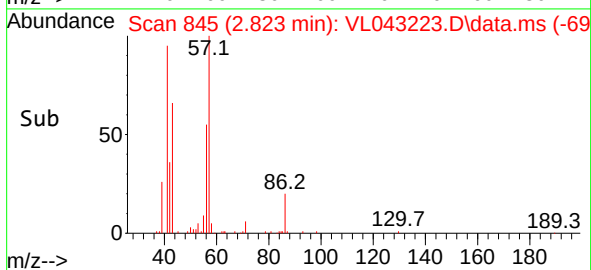
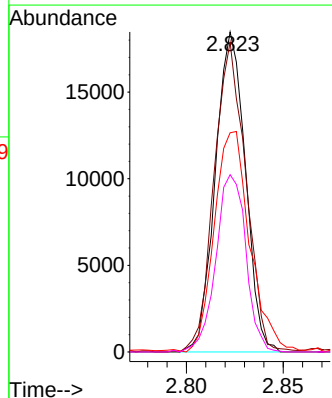
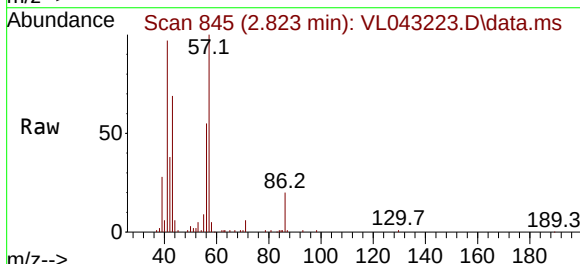
Instrument :
MSVOA_L
ClientSampleId :
SV2

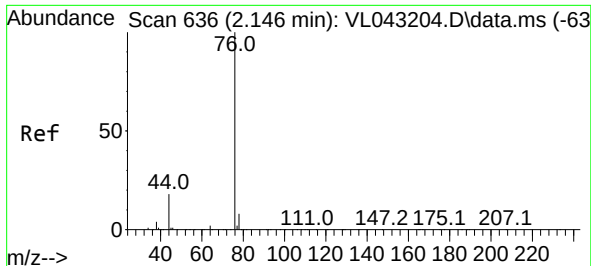
Tgt Ion: 43	Resp: 16299
Ion Ratio	Lower Upper
43	100
45	4.3 8.1 12.1#
61	2.6 7.0 10.4#
70	3.3 7.0 10.6#



#26
Hexane
Concen: 1.623 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 57	Resp: 19949
Ion Ratio	Lower Upper
57	100
41	102.9 74.6 111.8
43	83.5 179.0 268.4#
56	55.5 42.3 63.5





#27

Carbon Disulfide

Concen: 0.112 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

SV2

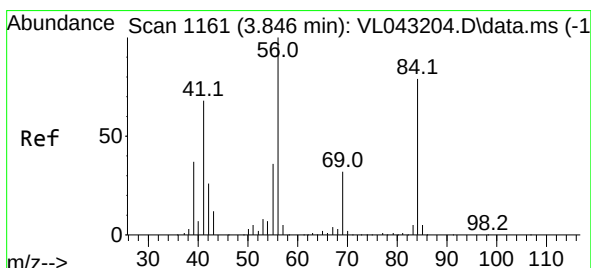
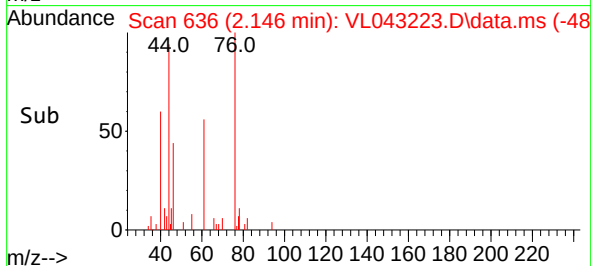
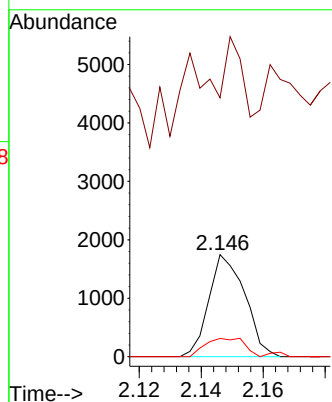
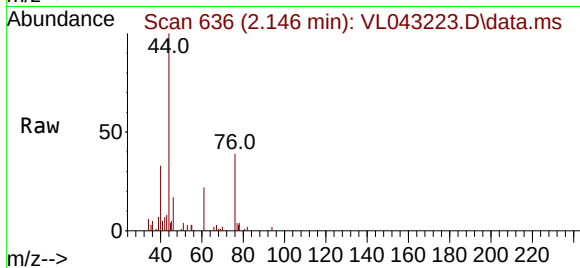
Tgt Ion: 76 Resp: 1411

Ion Ratio Lower Upper

76 100

44 859.9 16.1 24.1#

78 21.5 9.6 14.4#



#30

Cyclohexane

Concen: 0.314 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. 0.006 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

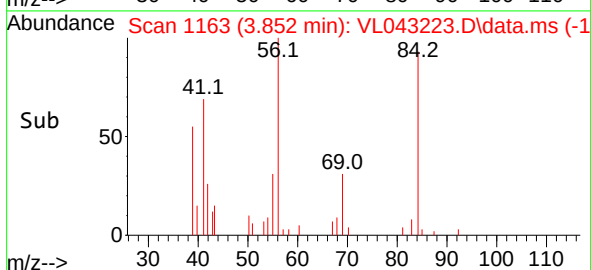
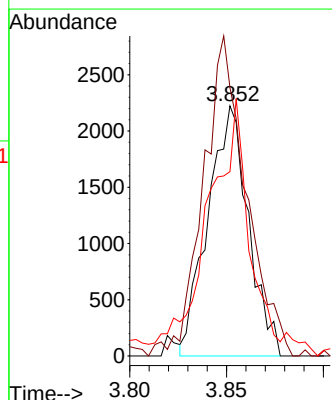
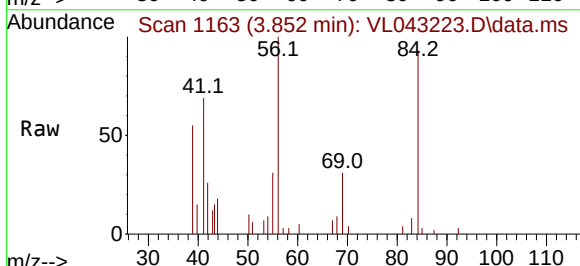
Tgt Ion: 84 Resp: 3231

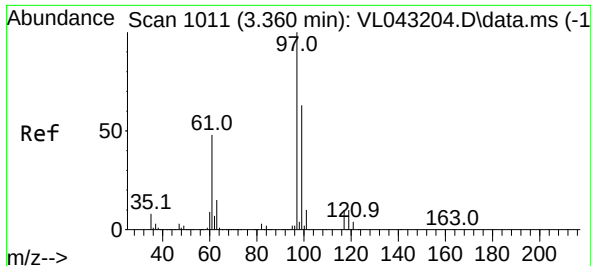
Ion Ratio Lower Upper

84 100

56 136.5 104.7 157.1

41 114.8 69.0 103.6#

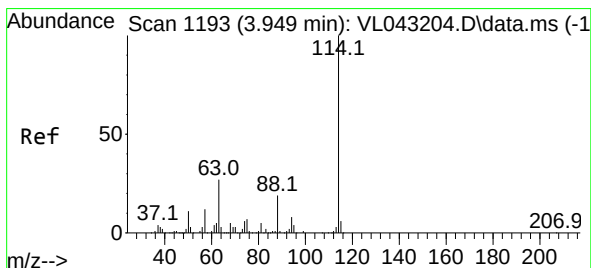
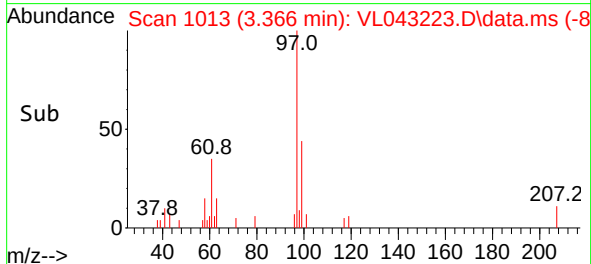
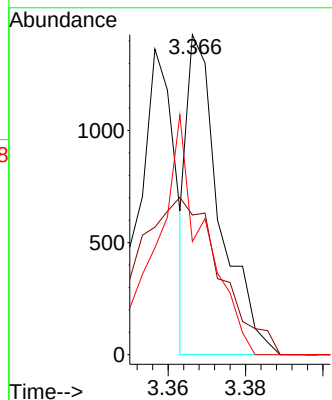
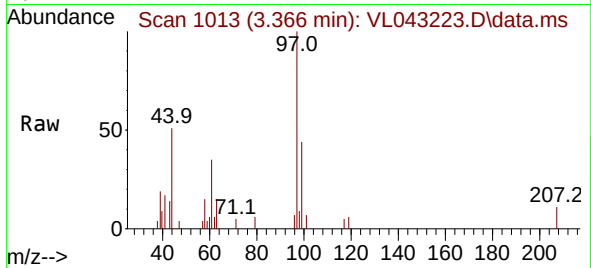




#32
 1,1,1-Trichloroethane
 Concen: 0.045 ppbv
 RT: 3.366 min Scan# 1103
 Delta R.T. 0.006 min
 Lab File: VL043223.D
 Acq: 18 Nov 2025 21:01

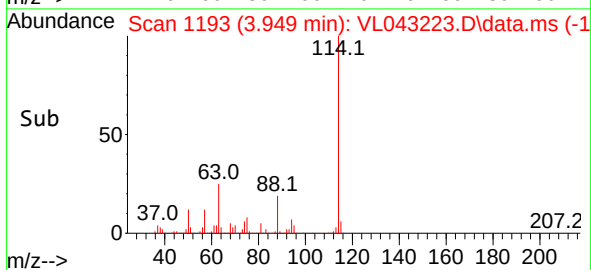
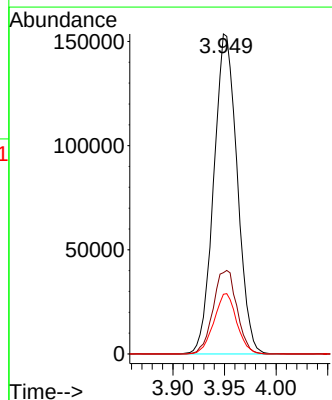
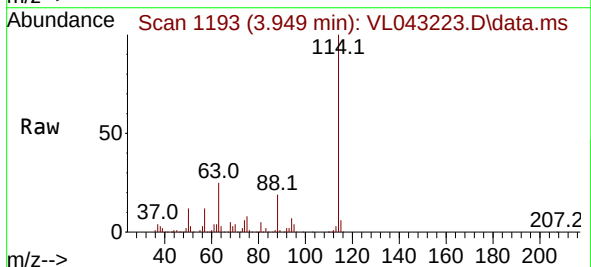
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

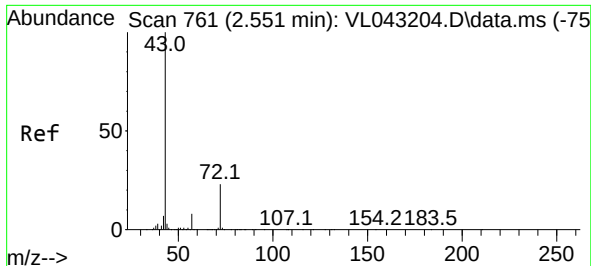
Tgt Ion: 97 Resp: 834
 Ion Ratio Lower Upper
 97 100
 99 120.1 50.3 75.5#
 61 116.2 38.9 58.3#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.949 min Scan# 1193
 Delta R.T. -0.000 min
 Lab File: VL043223.D
 Acq: 18 Nov 2025 21:01

Tgt Ion: 114 Resp: 242389
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.0 31.6
 88 18.4 14.9 22.3

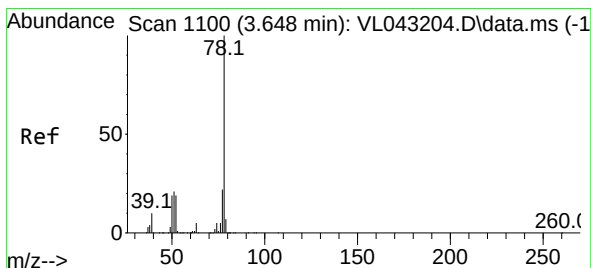
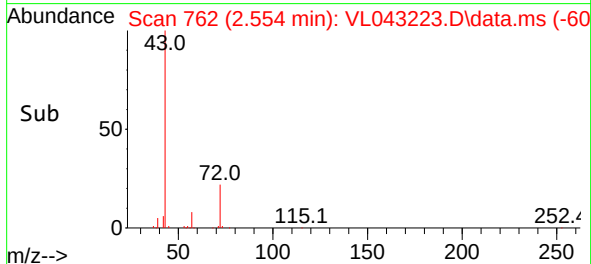
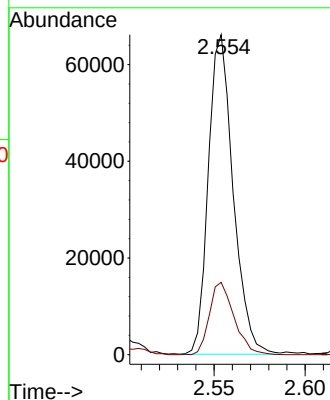
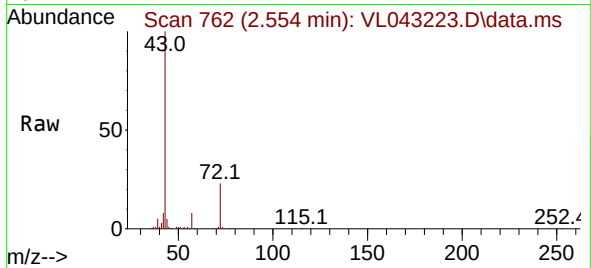




#34
2-Butanone
Concen: 3.662 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

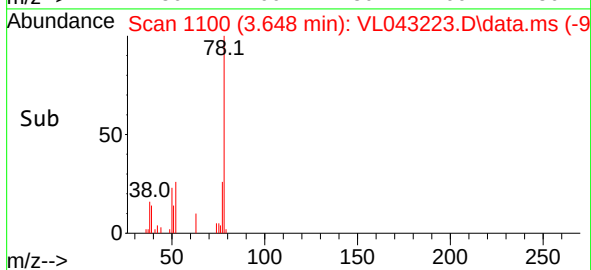
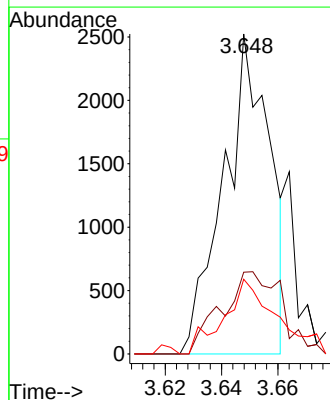
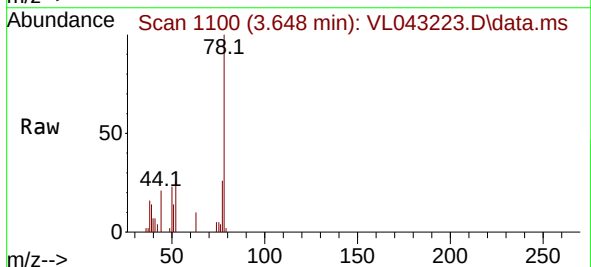
Instrument :
MSVOA_L
ClientSampleId :
SV2

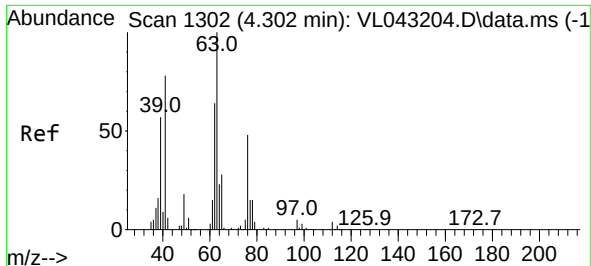
Tgt Ion: 43 Resp: 62654
Ion Ratio Lower Upper
43 100
72 22.5 18.1 27.1



#36
Benzene
Concen: 0.123 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 78 Resp: 2862
Ion Ratio Lower Upper
78 100
77 25.6 17.5 26.3
50 37.5 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 7.562 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.350 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

SV2

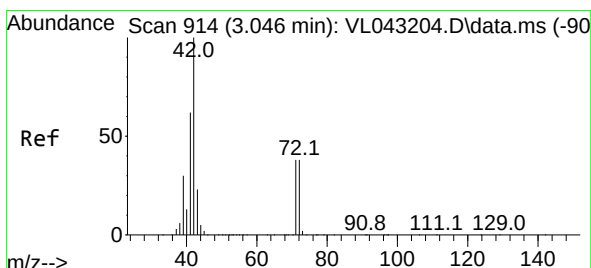
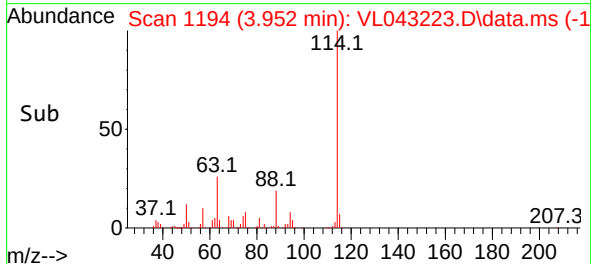
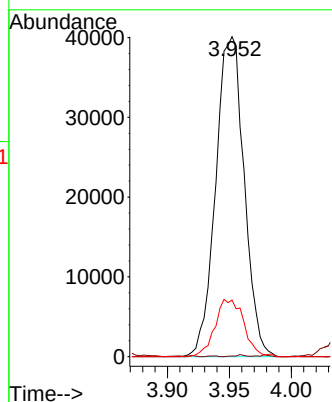
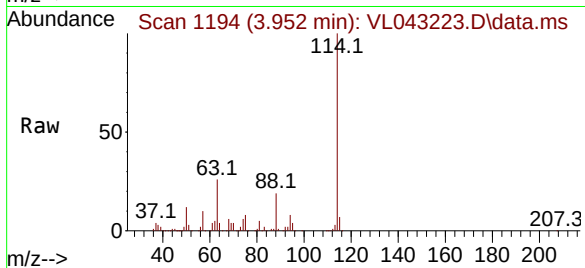
Tgt Ion: 63 Resp: 64243

Ion Ratio Lower Upper

63 100

41 0.2 62.6 93.8#

62 17.7 51.0 76.6#



#41

Tetrahydrofuran

Concen: 0.187 ppbv

RT: 3.056 min Scan# 917

Delta R.T. 0.009 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

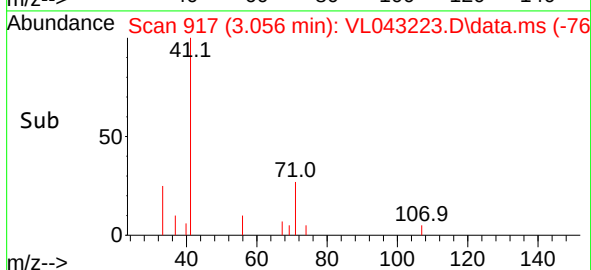
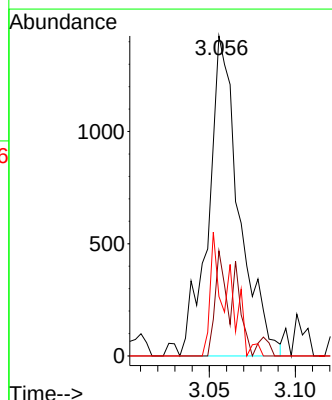
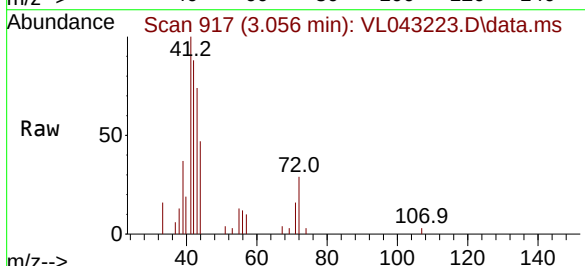
Tgt Ion: 42 Resp: 1767

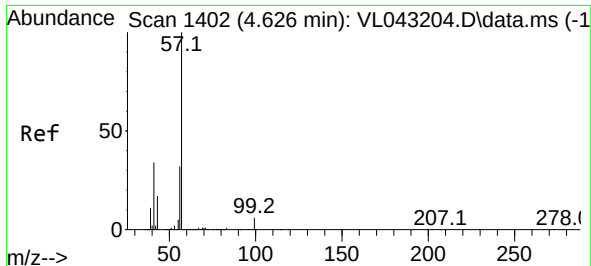
Ion Ratio Lower Upper

42 100

72 0.0 30.6 46.0#

71 22.4 30.5 45.7#

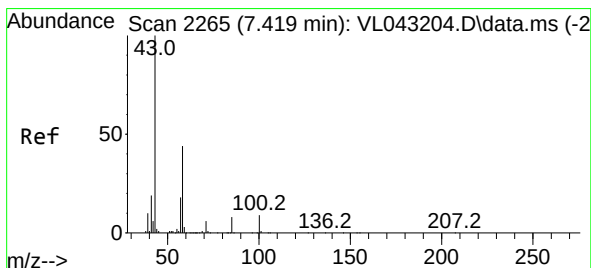
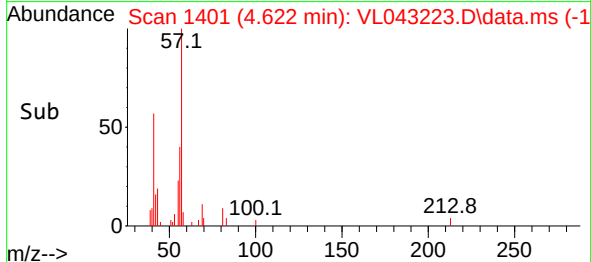
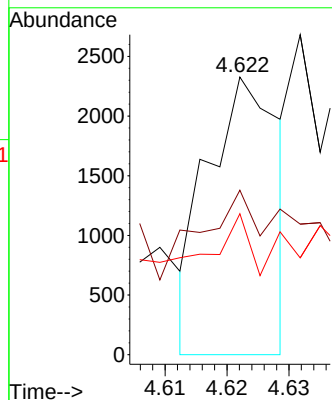
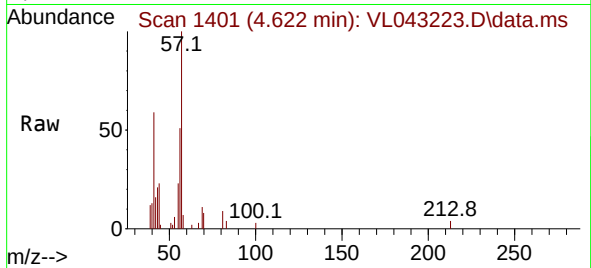




#44
2,2,4-Trimethylpentane
Concen: 0.047 ppbv
RT: 4.622 min Scan# 1402
Delta R.T. -0.004 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

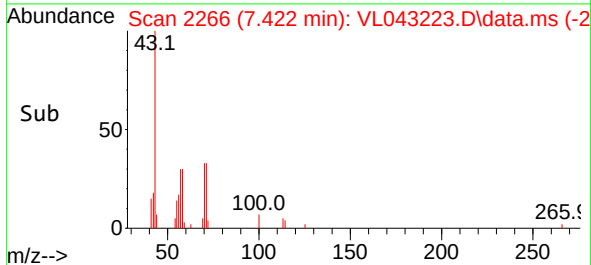
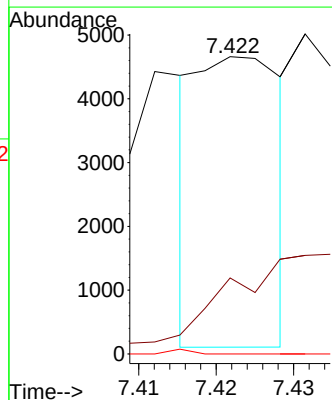
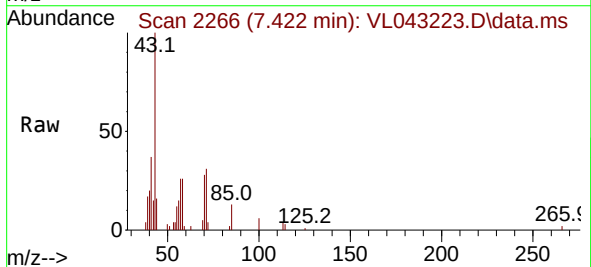
Instrument :
MSVOA_L
ClientSampleId :
SV2

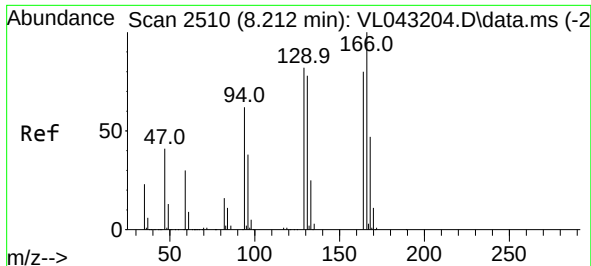
Tgt Ion: 57 Resp: 1860
Ion Ratio Lower Upper
57 100
41 192.3 28.0 42.0#
56 113.0 25.6 38.4#



#51
2-Hexanone
Concen: 0.183 ppbv
RT: 7.422 min Scan# 2266
Delta R.T. 0.003 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

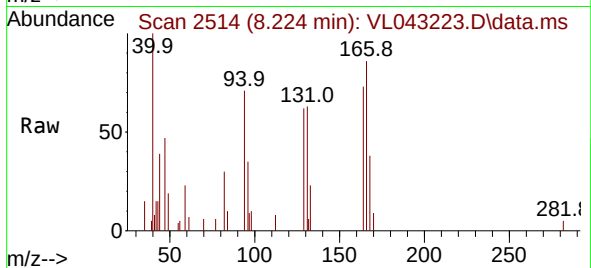
Tgt Ion: 43 Resp: 3429
Ion Ratio Lower Upper
43 100
58 0.0 38.4 57.6#
98 0.0 0.0 0.0



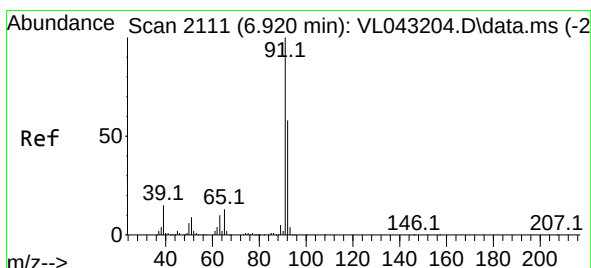
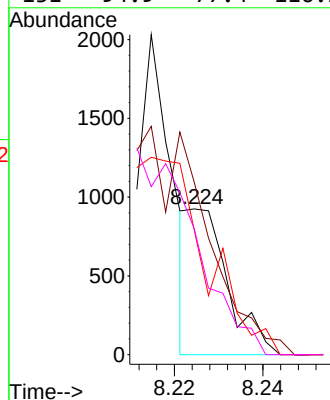
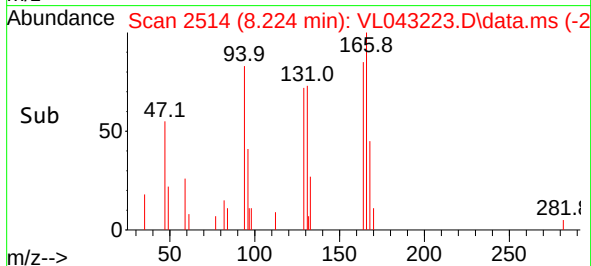


#52
Tetrachloroethene
Concen: 0.066 ppbv
RT: 8.224 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Instrument :
MSVOA_L
ClientSampleId :
SV2

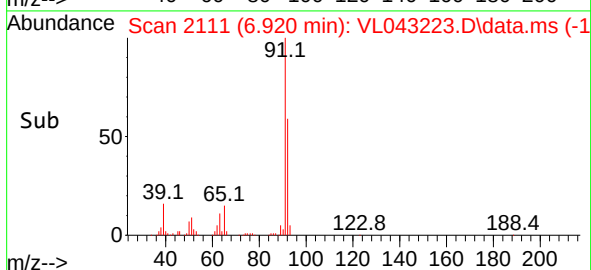
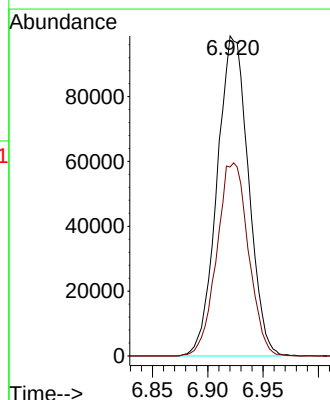
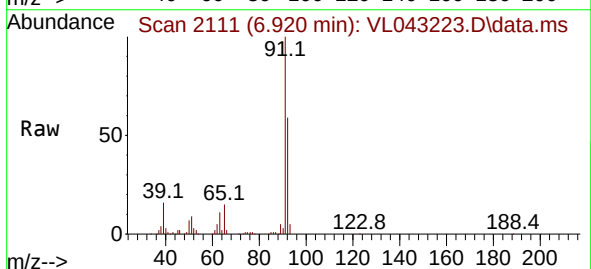


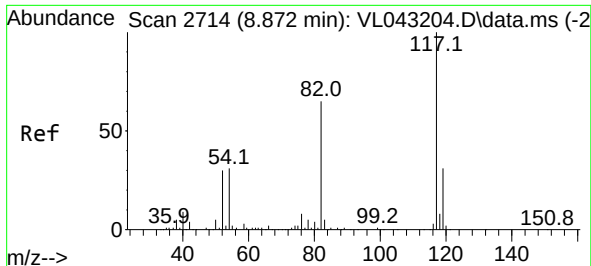
Tgt Ion:	164	Resp:	573
Ion	Ratio	Lower	Upper
164	100		
166	108.2	99.4	149.2
129	85.4	81.8	122.8
131	94.9	77.4	116.2



#53
Toluene
Concen: 7.078 ppbv
RT: 6.920 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion:	91	Resp:	194541
Ion	Ratio	Lower	Upper
91	100		
92	61.1	47.4	71.0

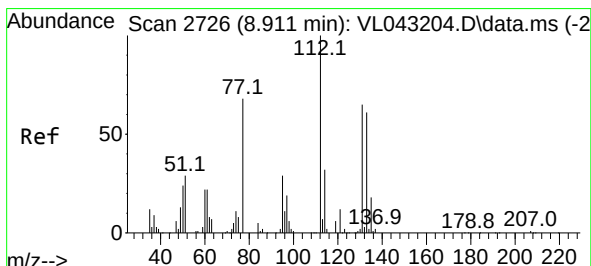
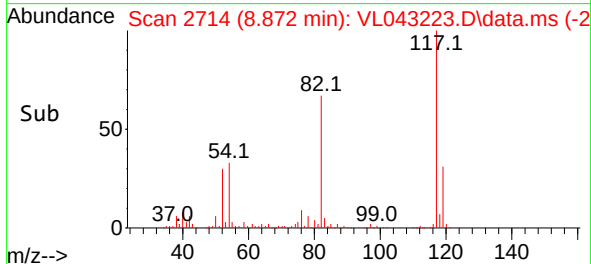
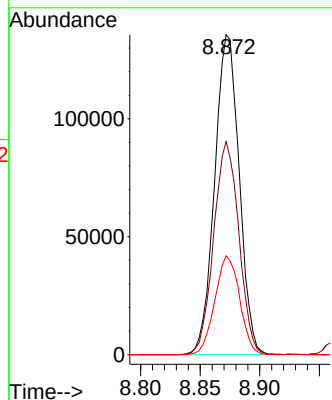
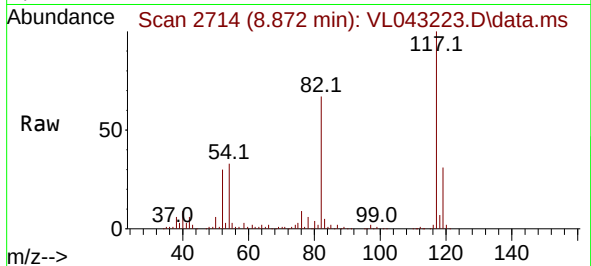




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2711
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

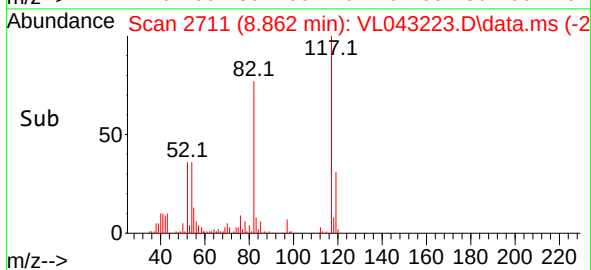
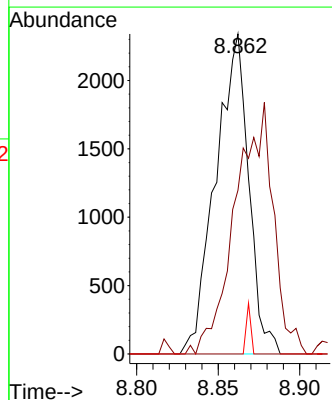
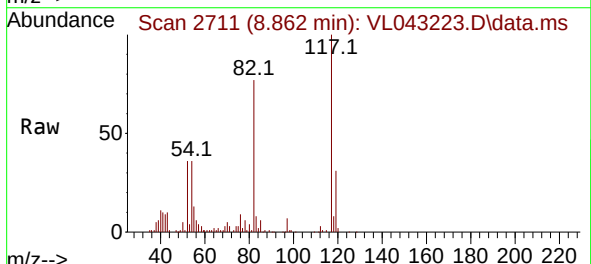
Instrument :
MSVOA_L
ClientSampleId :
SV2

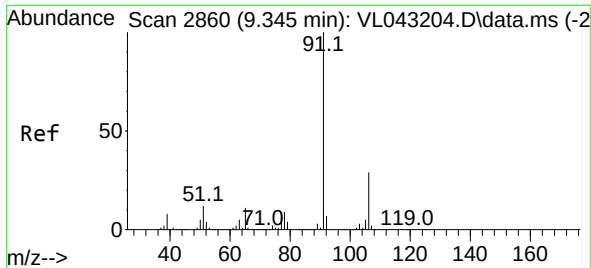
Tgt Ion:117 Resp: 194239
Ion Ratio Lower Upper
117 100
82 68.3 56.1 84.1
119 31.2 25.0 37.6



#57
Chlorobenzene
Concen: 0.166 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. -0.049 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion:112 Resp: 3302
Ion Ratio Lower Upper
112 100
77 51.2 55.5 83.3#
114 16.2 29.1 35.5#

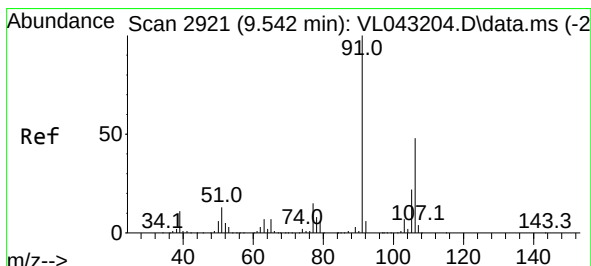
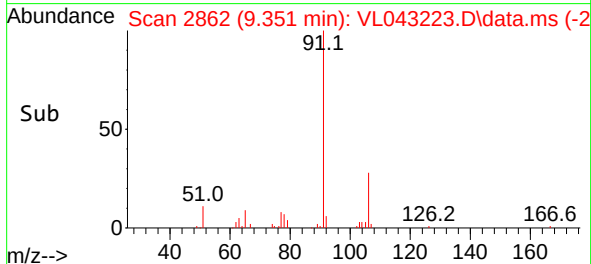
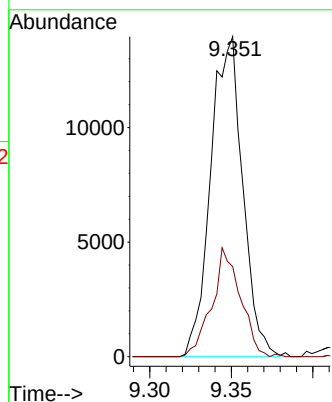
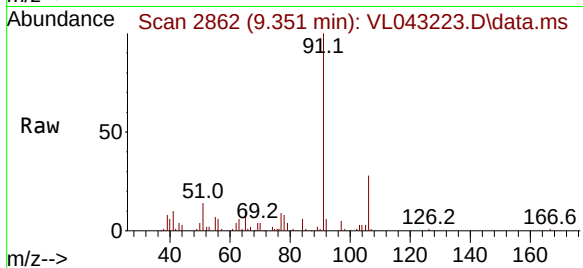




#58
Ethyl Benzene
Concen: 0.509 ppbv
RT: 9.351 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

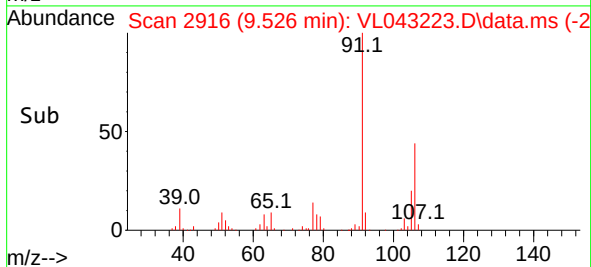
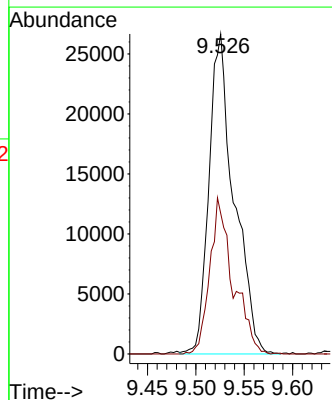
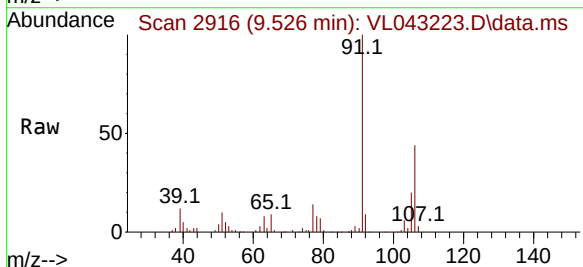
Instrument :
MSVOA_L
ClientSampleId :
SV2

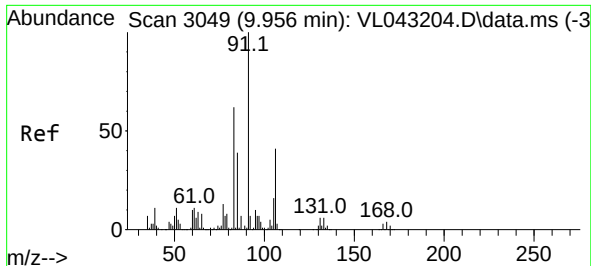
Tgt Ion: 91 Resp: 19035
Ion Ratio Lower Upper
91 100
106 28.2 22.8 34.2



#59
m/p-Xylene
Concen: 1.606 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 91 Resp: 48124
Ion Ratio Lower Upper
91 100
106 45.3 36.1 54.1

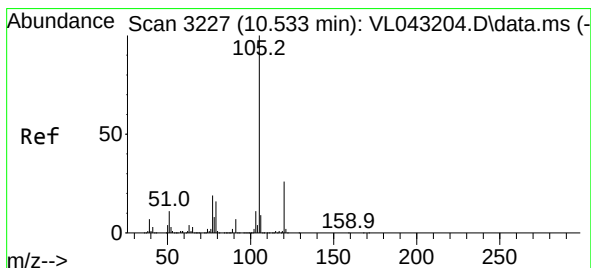
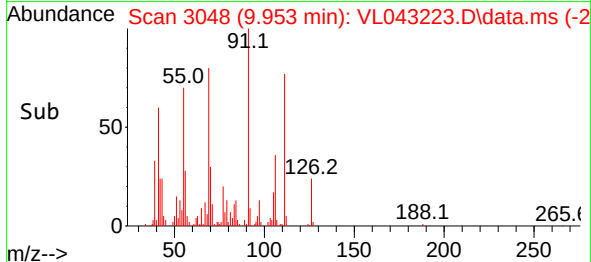
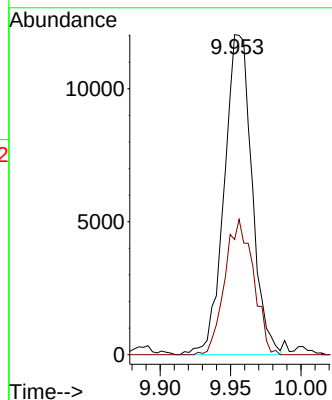
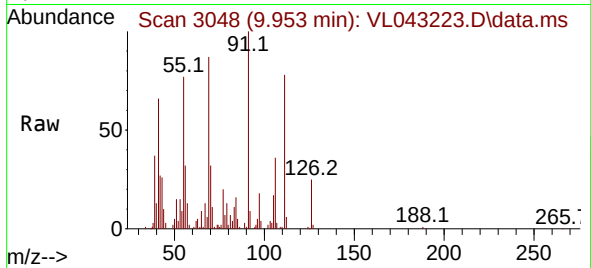




#60
o-Xylene
Concen: 0.551 ppbv
RT: 9.953 min Scan# 3049
Delta R.T. -0.004 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

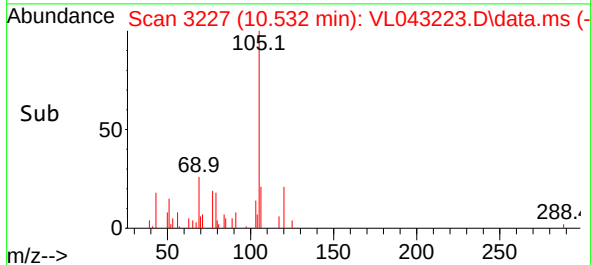
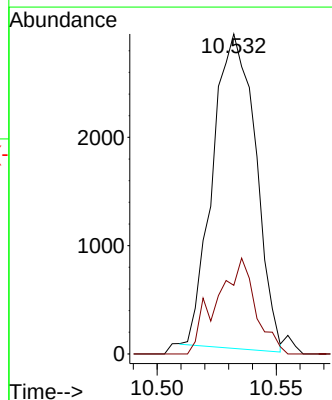
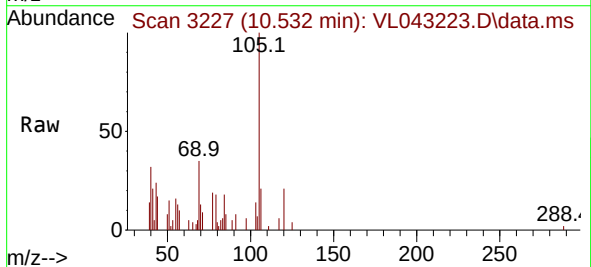
Instrument :
MSVOA_L
ClientSampleId :
SV2

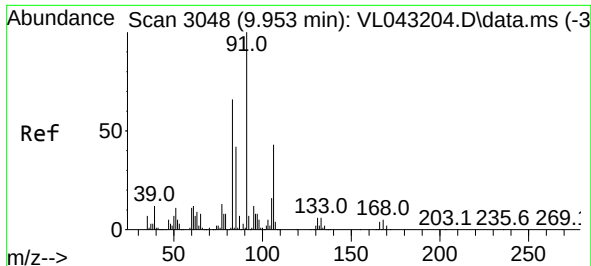
Tgt Ion: 91 Resp: 16493
Ion Ratio Lower Upper
91 100
106 43.5 20.9 62.8



#62
Isopropylbenzene
Concen: 0.068 ppbv
RT: 10.532 min Scan# 3227
Delta R.T. -0.000 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 105 Resp: 3627
Ion Ratio Lower Upper
105 100
120 27.7 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.084 ppbv

RT: 9.940 min Scan# 3048

Delta R.T. -0.013 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

SV2

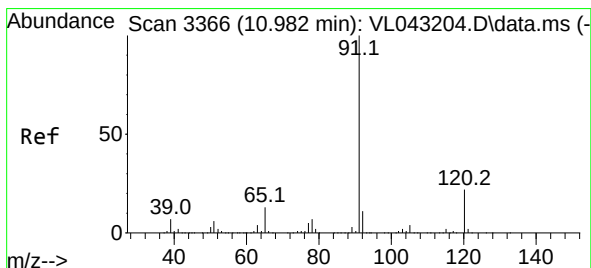
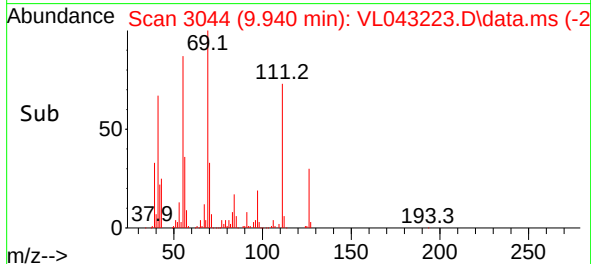
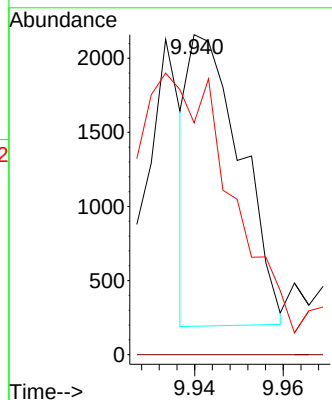
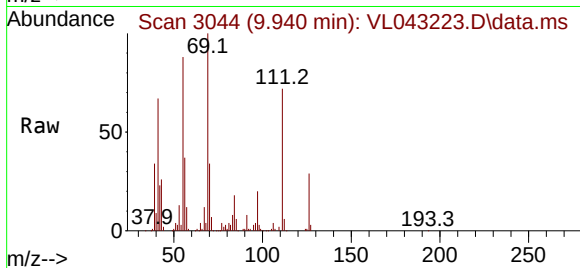
Tgt Ion: 83 Resp: 1602

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.3#

85 0.0 31.9 95.9#



#64

n-propylbenzene

Concen: 0.064 ppbv

RT: 10.979 min Scan# 3365

Delta R.T. -0.004 min

Lab File: VL043223.D

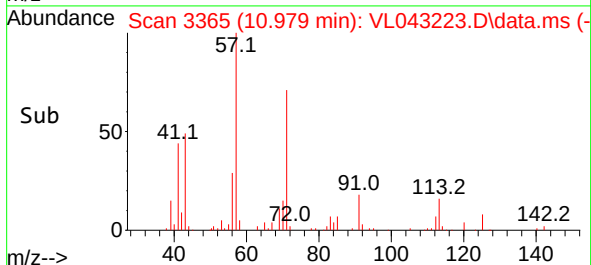
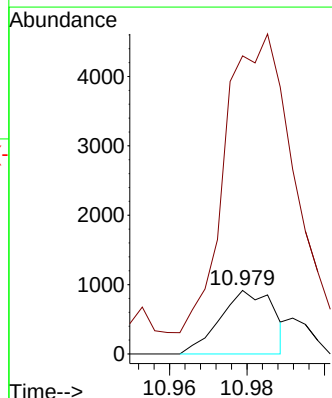
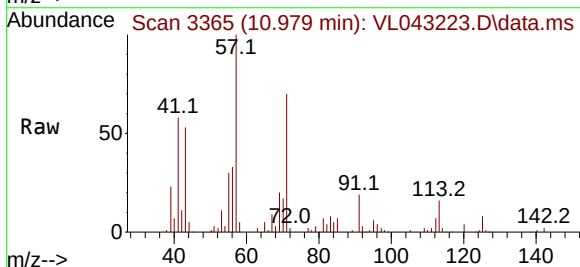
Acq: 18 Nov 2025 21:01

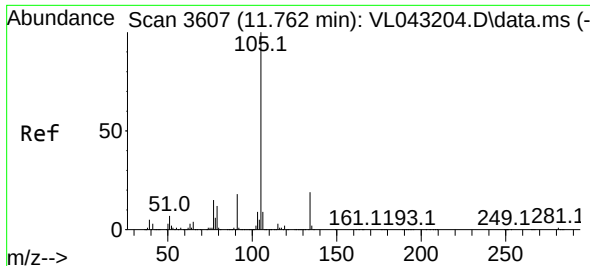
Tgt Ion: 120 Resp: 881

Ion Ratio Lower Upper

120 100

91 687.2 377.1 565.7#





#67

sec-Butylbenzene

Concen: 0.043 ppbv

RT: 11.765 min Scan# 3176

Delta R.T. 0.003 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

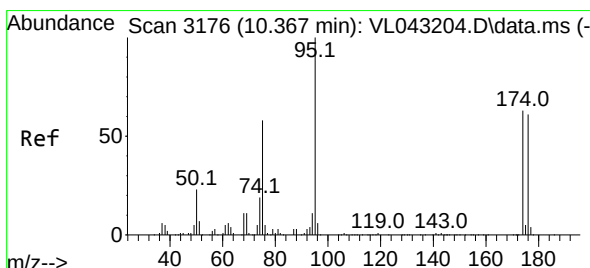
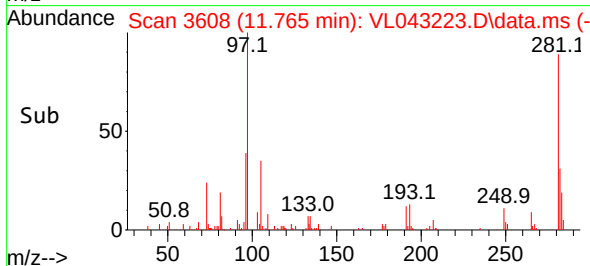
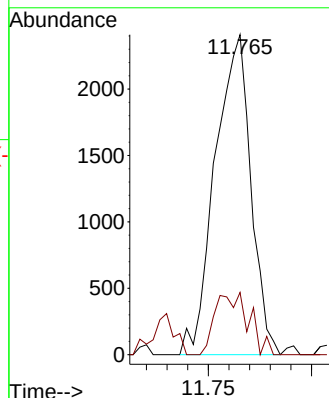
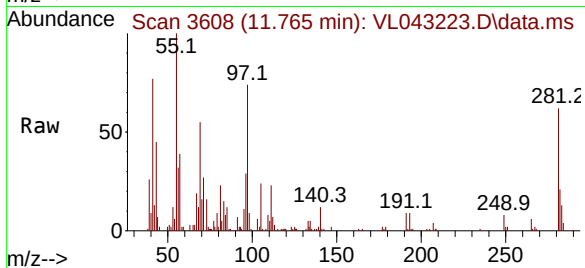
SV2

Tgt Ion:105 Resp: 2895

Ion Ratio Lower Upper

105 100

134 18.3 15.0 22.6



#68

1-Bromo-4-Fluorobenzene

Concen: 10.312 ppbv

RT: 10.367 min Scan# 3176

Delta R.T. -0.000 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

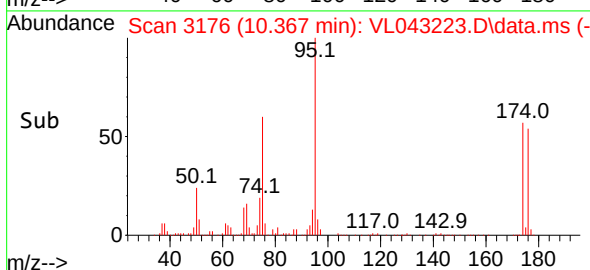
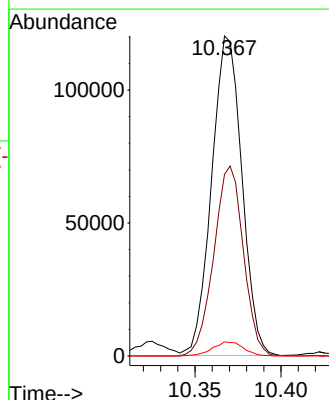
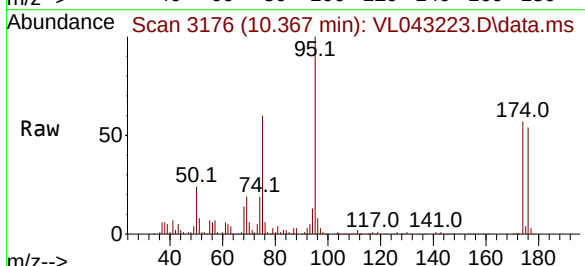
Tgt Ion: 95 Resp: 146822

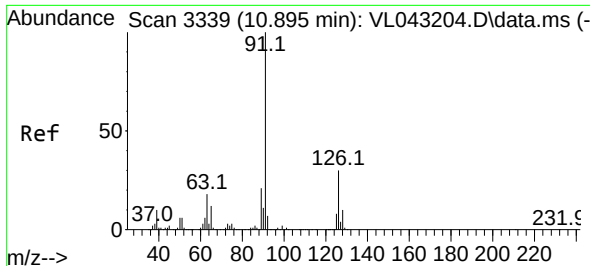
Ion Ratio Lower Upper

95 100

174 58.1 50.2 75.2

175 4.5 4.1 6.1

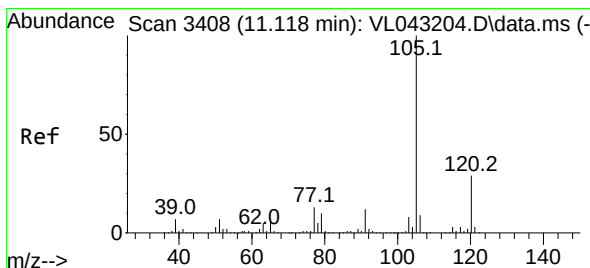
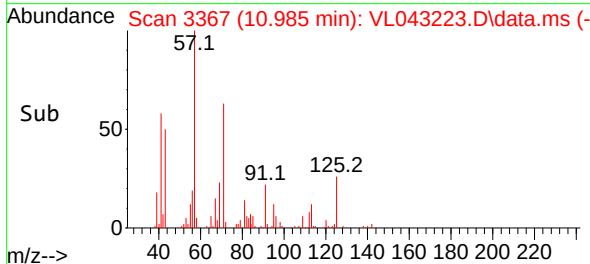
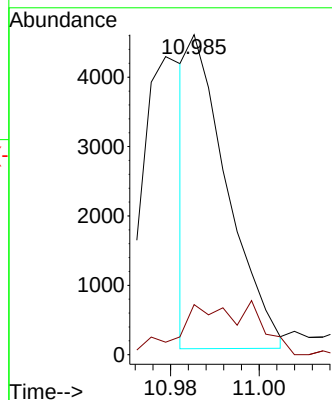
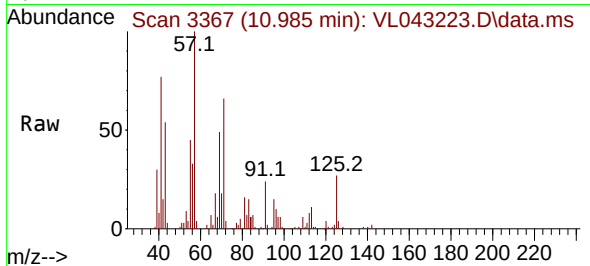




#71
2-Chlorotoluene
Concen: 0.068 ppbv
RT: 10.985 min Scan# 31
Delta R.T. 0.090 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

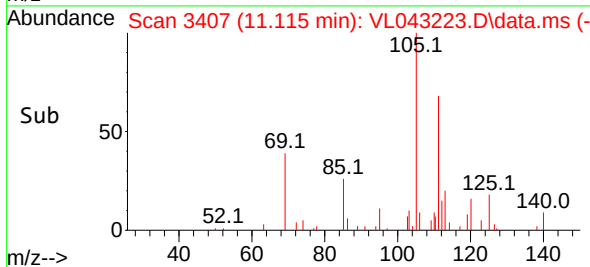
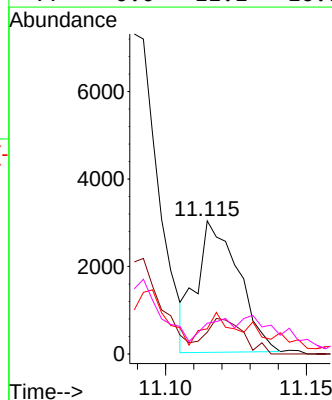
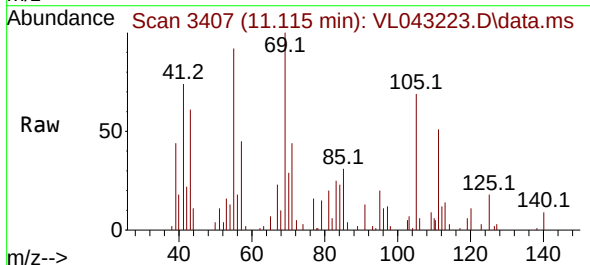
Instrument :
MSVOA_L
ClientSampleId :
SV2

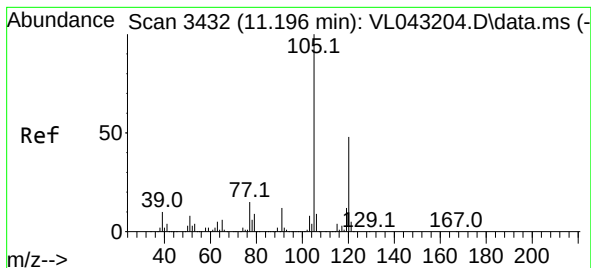
Tgt Ion: 91 Resp: 2788
Ion Ratio Lower Upper
91 100
126 34.1 11.7 46.7



#72
4-Ethyltoluene
Concen: 0.085 ppbv
RT: 11.115 min Scan# 3407
Delta R.T. -0.004 min
Lab File: VL043223.D
Acq: 18 Nov 2025 21:01

Tgt Ion: 105 Resp: 3105
Ion Ratio Lower Upper
105 100
120 0.0 23.8 35.8#
91 0.0 10.3 15.5#
77 0.0 11.1 16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.120 ppbv

RT: 11.199 min Scan# 3432

Delta R.T. 0.003 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

Instrument :

MSVOA_L

ClientSampleId :

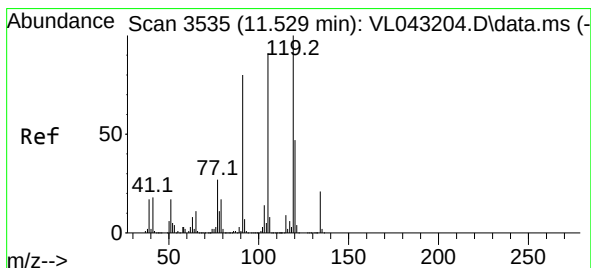
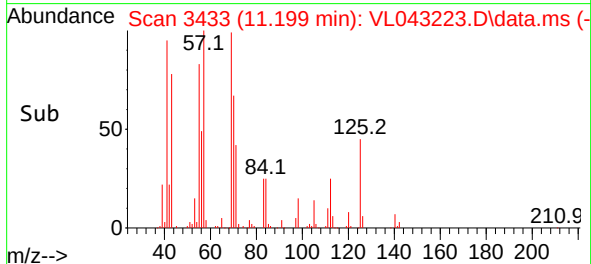
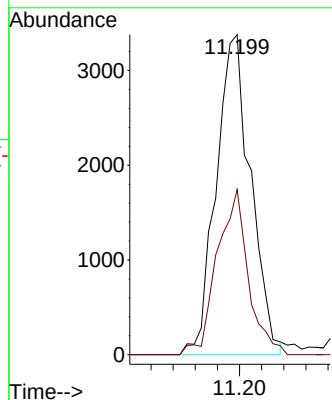
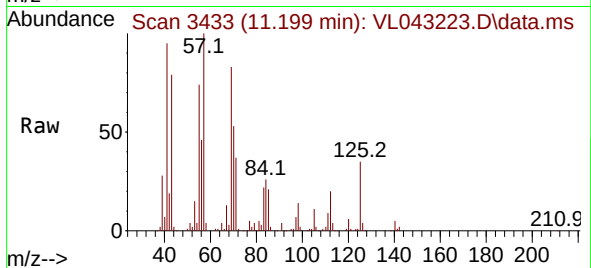
SV2

Tgt Ion:105 Resp: 3667

Ion Ratio Lower Upper

105 100

120 51.6 38.6 57.8



#74

1,2,4-Trimethylbenzene

Concen: 0.231 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.000 min

Lab File: VL043223.D

Acq: 18 Nov 2025 21:01

Tgt Ion:105 Resp: 7730

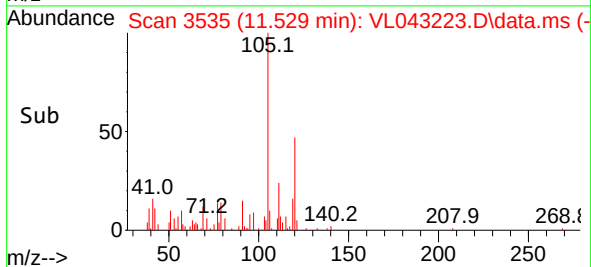
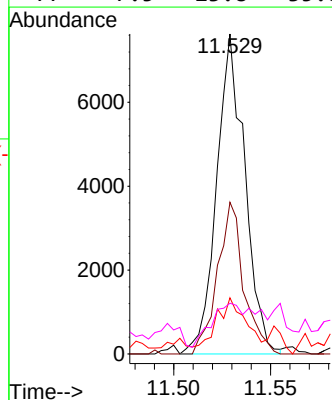
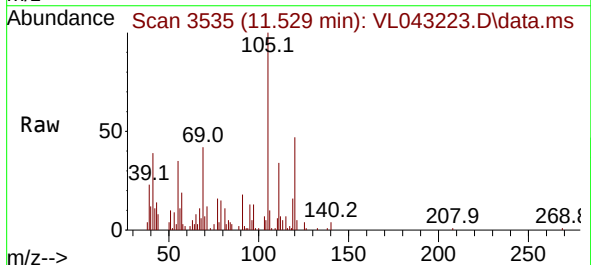
Ion Ratio Lower Upper

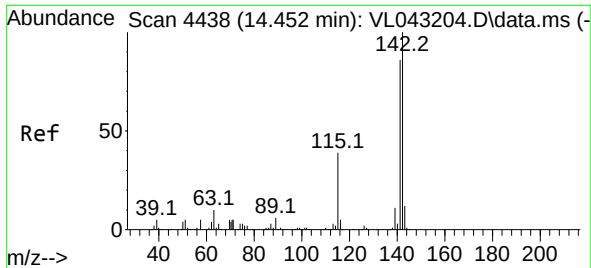
105 100

120 47.4 41.7 62.5

91 12.7 70.0 105.0#

77 7.5 23.8 35.8#





#80
 Naphthalene, 2-methyl-
 Concen: 0.038 ppbv
 RT: 14.465 min Scan# 44
 Delta R.T. 0.013 min
 Lab File: VL043223.D
 Acq: 18 Nov 2025 21:01

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion:142 Resp: 297
 Ion Ratio Lower Upper
 142 100
 141 29.3 67.1 100.7#
 115 8.4 31.9 47.9#

