

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042273.D
 Acq On : 08 Apr 2025 21:37
 Operator : SY/MD
 Sample : Q1728-08DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-4-04022025DL

Quant Time: Apr 09 02:00:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	152932	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	379227	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.888	117	368372	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	288158	9.526	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.300%

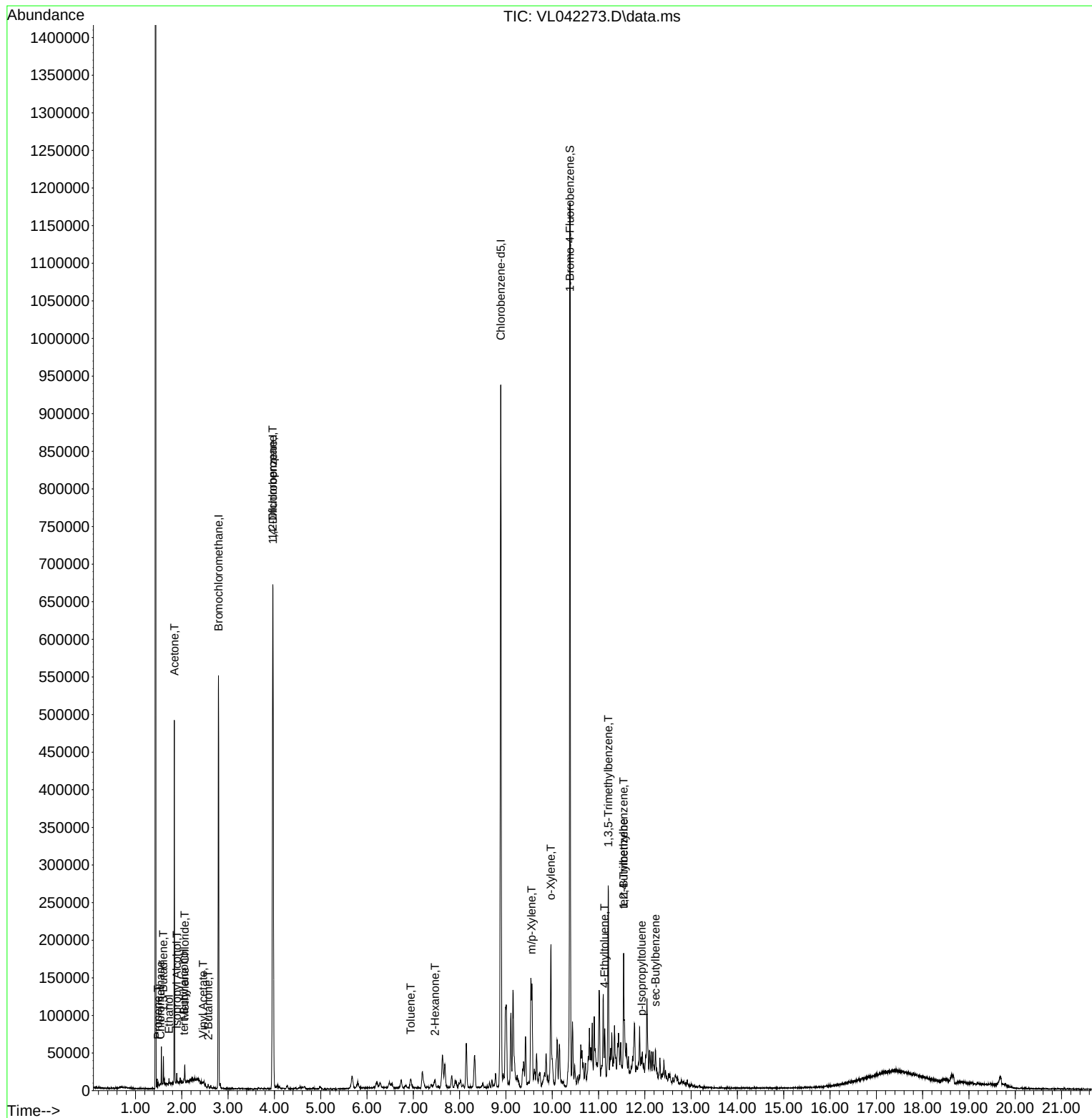
Target Compounds						Qvalue
4) Chloromethane	1.534	50	411	0.045	ppbv	91
9) Propene	1.486	41	774	0.073	ppbv #	15
13) Ethanol	1.722	45	2775	2.776	ppbv #	27
15) Acetone	1.839	43	200607	9.379	ppbv	94
16) 1,3-Butadiene	1.602	39	3718	0.356	ppbv #	20
17) tert-Butyl alcohol	2.049	59	1520	0.057	ppbv #	71
19) Isopropyl Alcohol	1.890	45	5026	0.416	ppbv #	1
20) Methylene Chloride	2.065	84	3517	0.442	ppbv #	78
23) Vinyl Acetate	2.460	43	883	0.095	ppbv #	37
34) 2-Butanone	2.570	43	3390	0.123	ppbv	98
39) 1,2-Dichloropropane	3.965	63	97495	7.121	ppbv #	22
51) 2-Hexanone	7.467	43	1738	0.049	ppbv #	28
53) Toluene	6.943	91	8155	0.183	ppbv	99
59) m/p-Xylene	9.552	91	2857	0.055	ppbv #	31
60) o-Xylene	9.972	91	80843	1.543	ppbv	98
65) tert-Butylbenzene	11.542	119	6962	0.096	ppbv #	66
67) sec-Butylbenzene	12.232	105	3123	0.031	ppbv	96
69) p-Isopropyltoluene	11.934	119	2721	0.031	ppbv #	78
72) 4-Ethyltoluene	11.131	105	16952	0.260	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	41500	0.729	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	52472	0.800	ppbv #	64

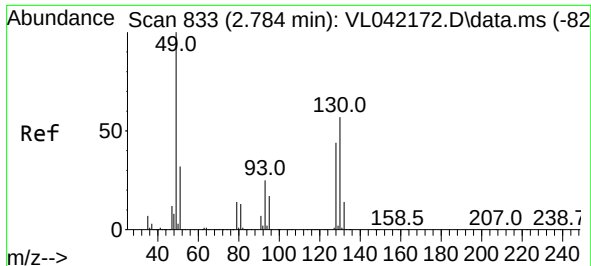
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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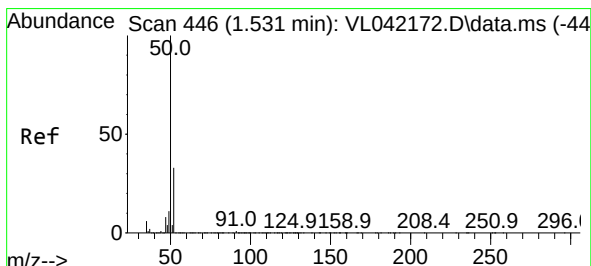
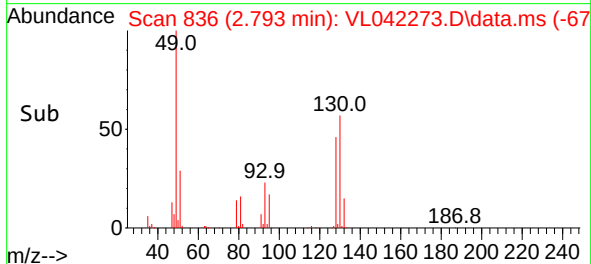
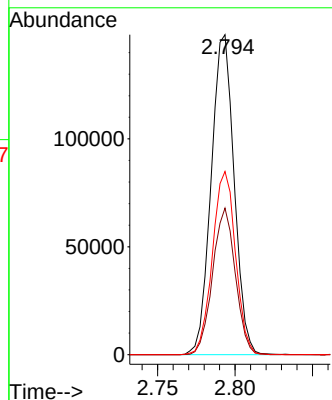
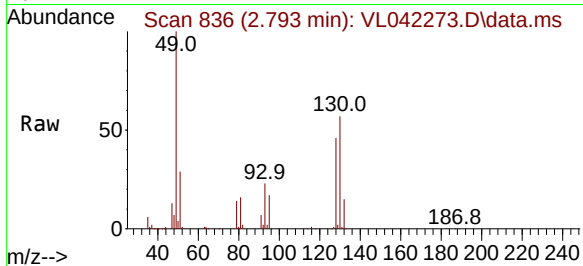




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

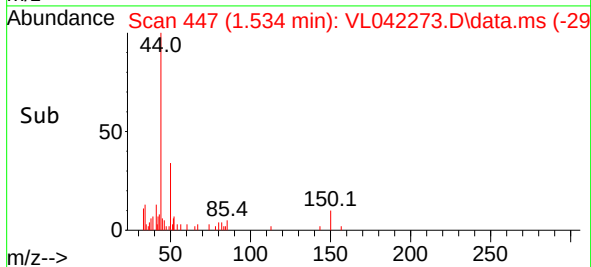
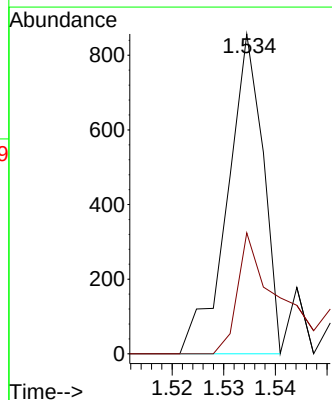
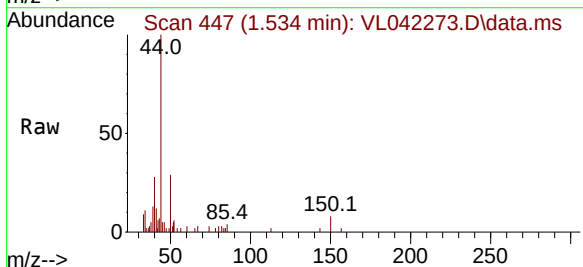
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

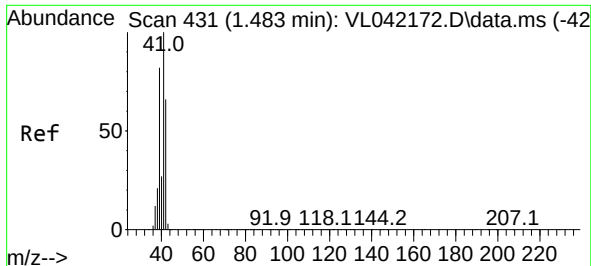
Tgt Ion: 49 Resp: 152932
Ion Ratio Lower Upper
49 100
128 45.3 22.9 68.5
130 57.5 28.8 86.4



#4
Chloromethane
Concen: 0.045 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 50 Resp: 411
Ion Ratio Lower Upper
50 100
52 37.8 26.1 39.1





#9

Propene

Concen: 0.073 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

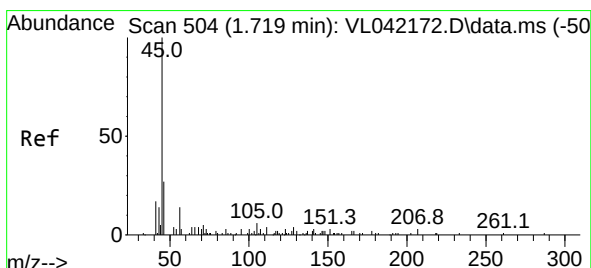
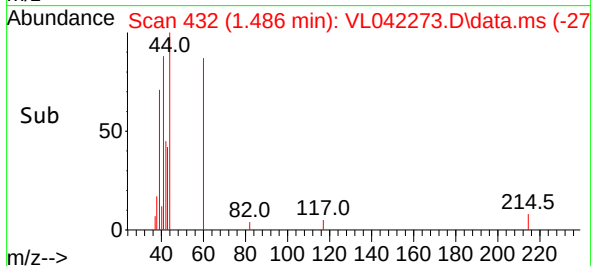
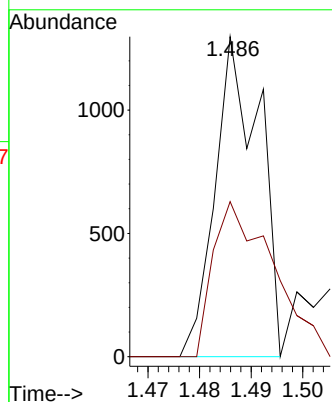
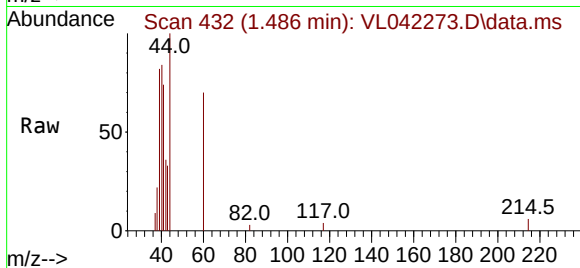
SSSG-B2-4-04022025DL

Tgt Ion: 41 Resp: 774

Ion Ratio Lower Upper

41 100

42 0.0 55.4 83.2#



#13

Ethanol

Concen: 2.776 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042273.D

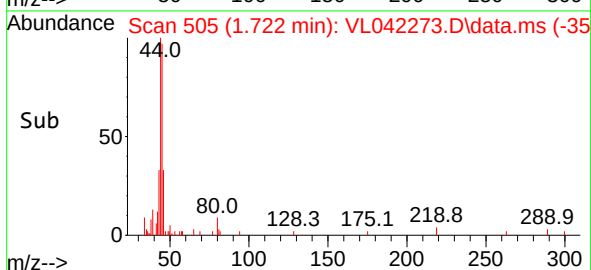
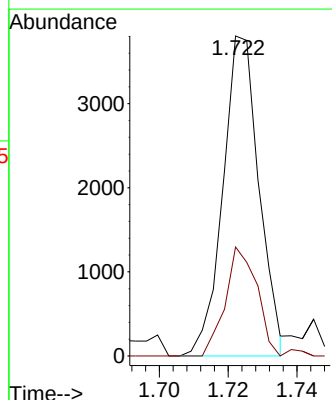
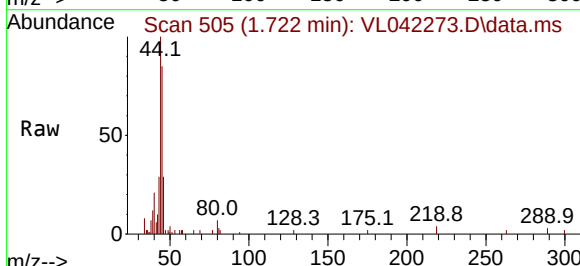
Acq: 08 Apr 2025 21:37

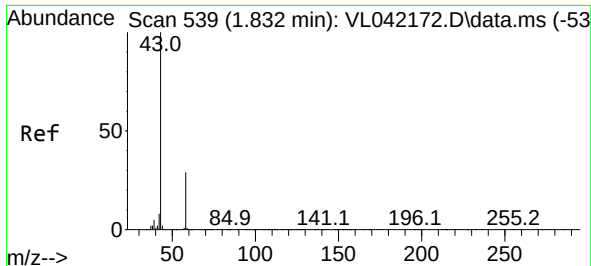
Tgt Ion: 45 Resp: 2775

Ion Ratio Lower Upper

45 100

46 0.0 20.2 80.8#





#15

Acetone

Concen: 9.379 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_1

ClientSampleId :

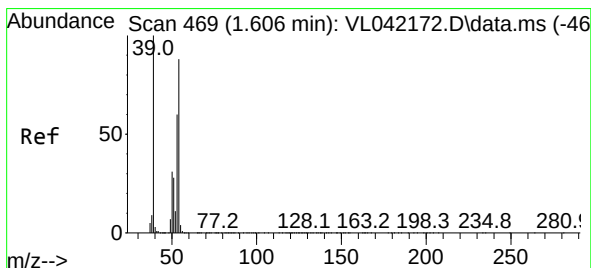
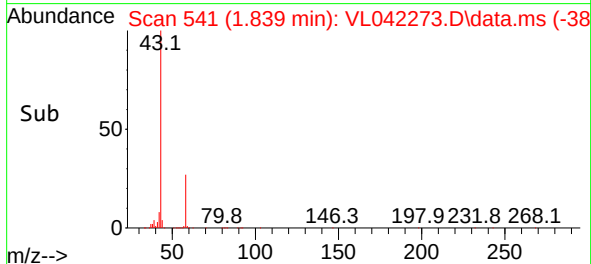
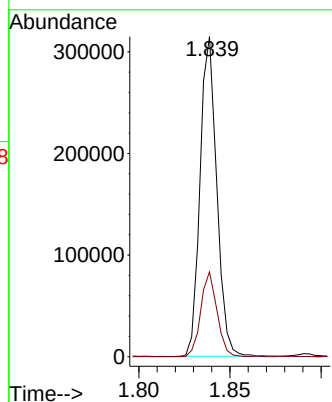
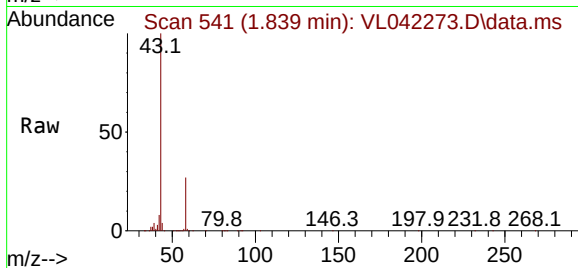
SSSG-B2-4-04022025DL

Tgt Ion: 43 Resp: 200607

Ion Ratio Lower Upper

43 100

58 25.9 23.2 34.8



#16

1,3-Butadiene

Concen: 0.356 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.003 min

Lab File: VL042273.D

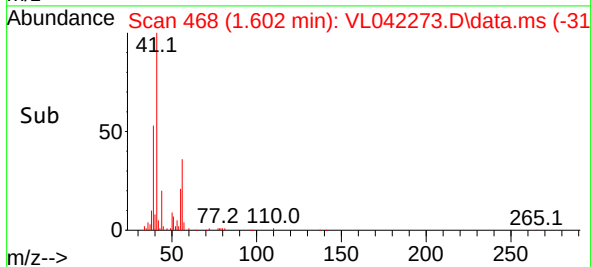
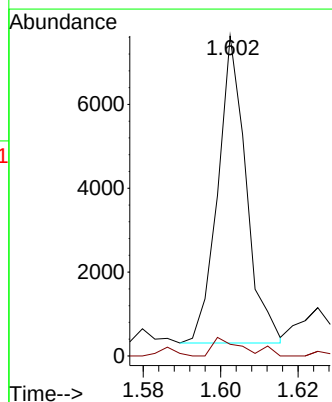
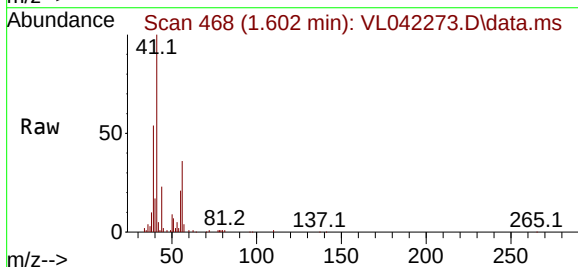
Acq: 08 Apr 2025 21:37

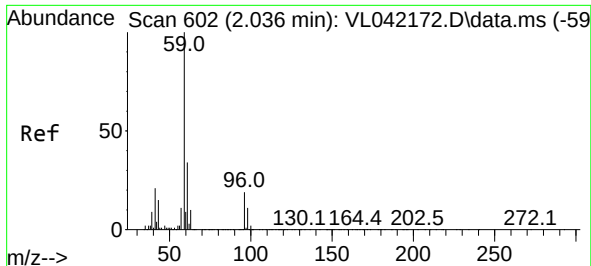
Tgt Ion: 39 Resp: 3718

Ion Ratio Lower Upper

39 100

54 7.4 60.7 91.1#

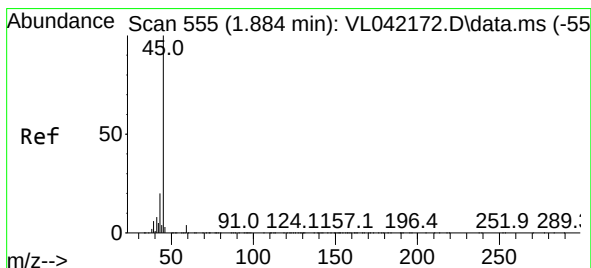
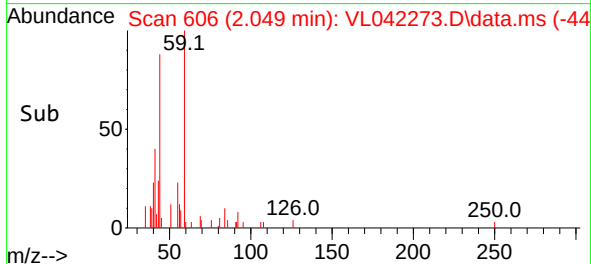
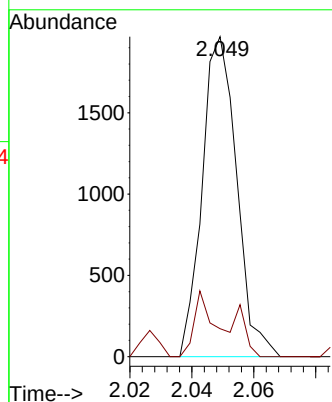
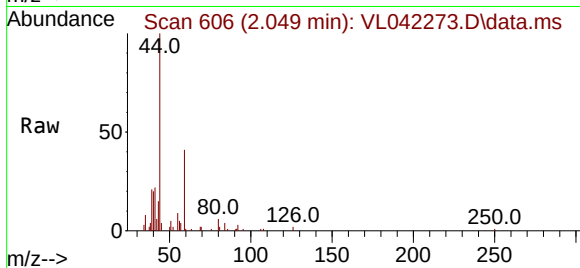




#17
tert-Butyl alcohol
Concen: 0.057 ppbv
RT: 2.049 min Scan# 602
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

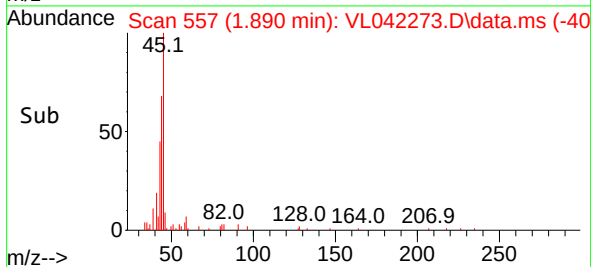
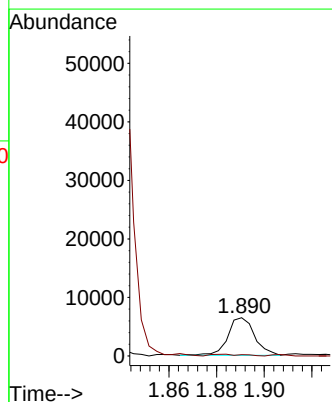
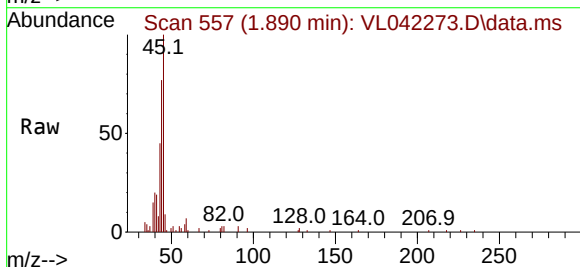
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-4-04022025DL

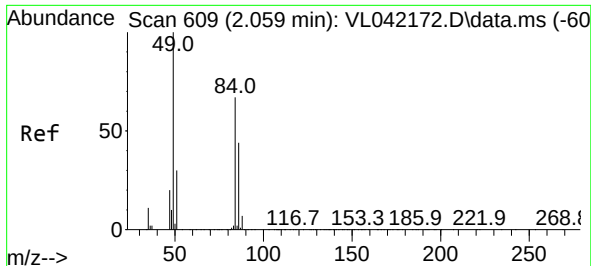
Tgt Ion: 59 Resp: 1520
Ion Ratio Lower Upper
59 100
57 22.2 8.9 13.3#



#19
Isopropyl Alcohol
Concen: 0.416 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 45 Resp: 5026
Ion Ratio Lower Upper
45 100
58 1031.6 36.9 55.3#





#20

Methylene Chloride

Concen: 0.442 ppbv

RT: 2.065 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042273.D

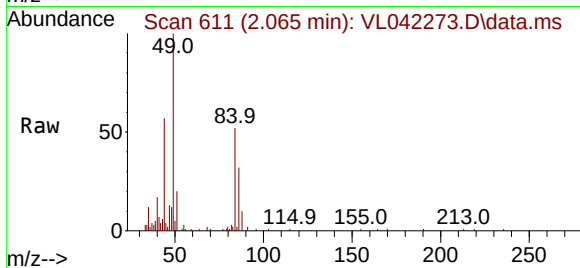
Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025DL



Tgt Ion: 84 Resp: 3517

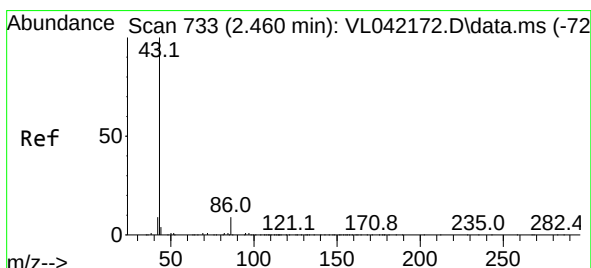
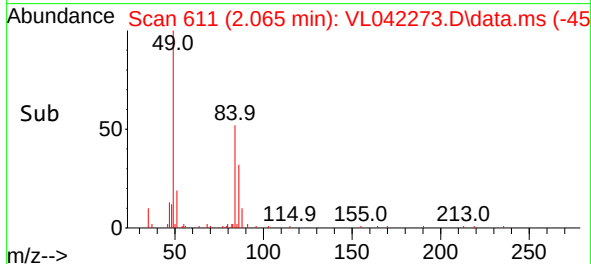
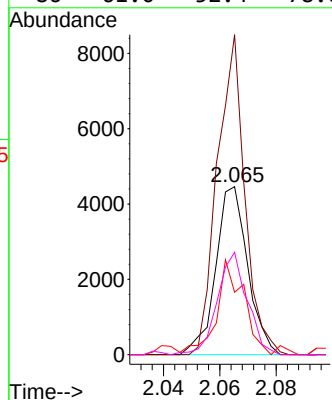
Ion Ratio Lower Upper

84 100

49 190.6 120.2 180.4#

51 35.9 37.4 56.0#

86 61.0 52.4 78.6



#23

Vinyl Acetate

Concen: 0.095 ppbv

RT: 2.460 min Scan# 733

Delta R.T. -0.000 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Tgt Ion: 43 Resp: 883

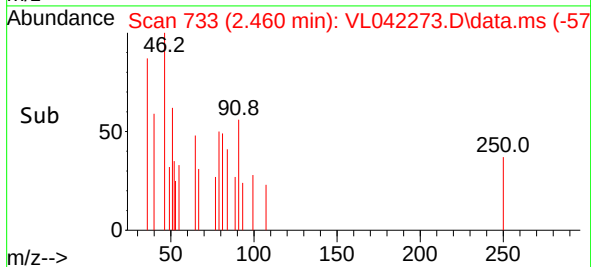
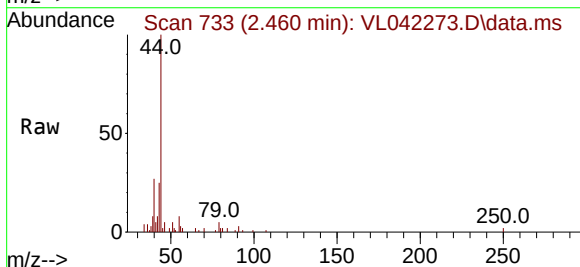
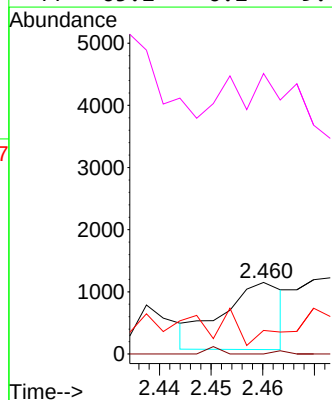
Ion Ratio Lower Upper

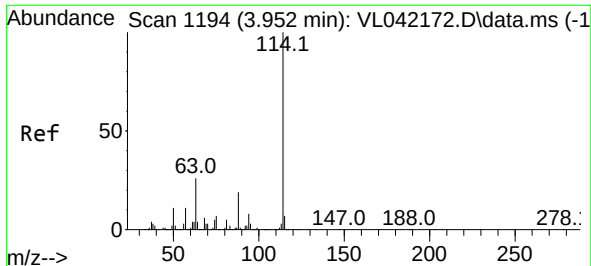
43 100

86 0.0 5.5 8.3#

42 3.7 8.6 13.0#

44 65.2 6.2 9.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.016 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025DL

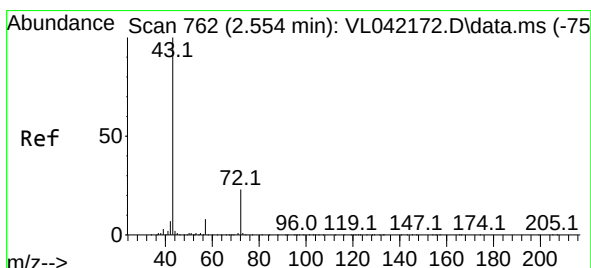
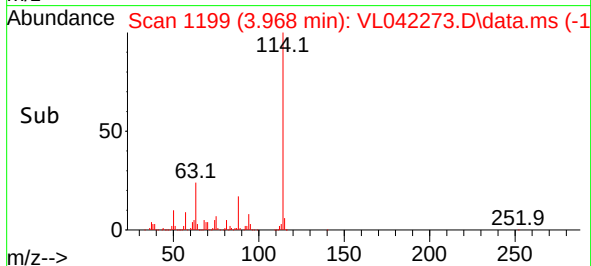
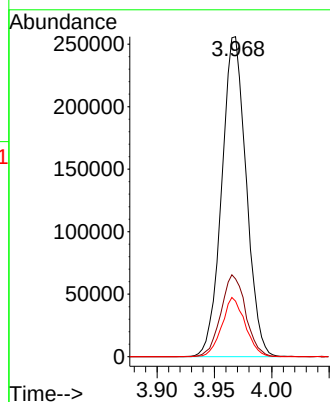
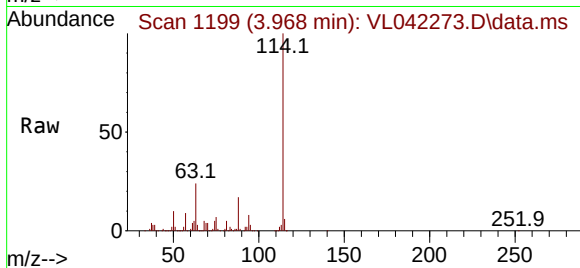
Tgt Ion:114 Resp: 379227

Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 17.7 15.0 22.4



#34

2-Butanone

Concen: 0.123 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL042273.D

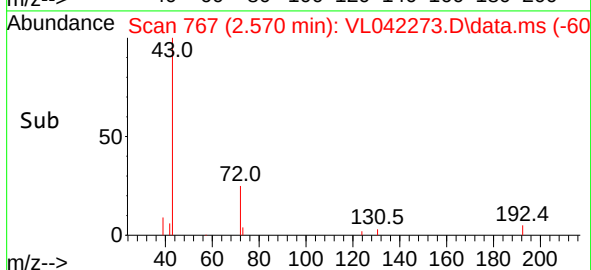
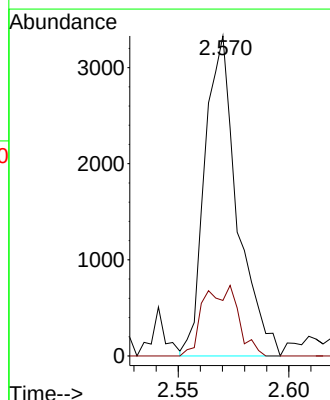
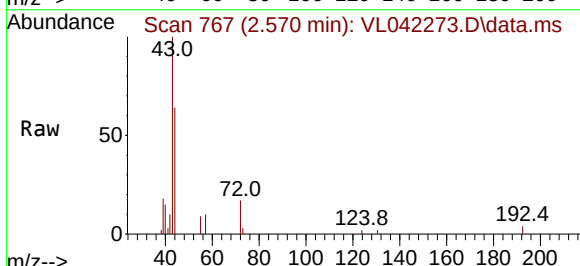
Acq: 08 Apr 2025 21:37

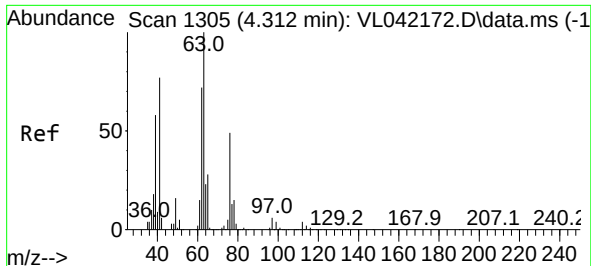
Tgt Ion: 43 Resp: 3390

Ion Ratio Lower Upper

43 100

72 23.7 18.2 27.2





#39

1,2-Dichloropropane

Concen: 7.121 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025DL

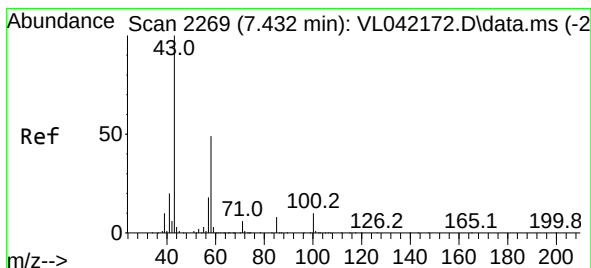
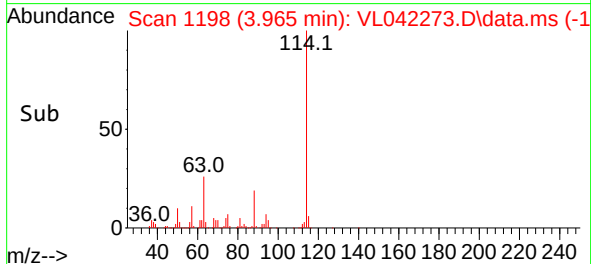
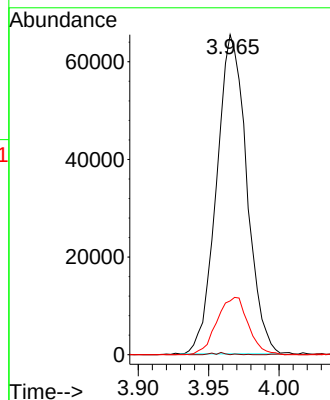
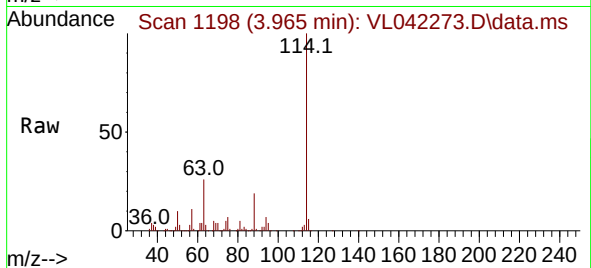
Tgt Ion: 63 Resp: 97495

Ion Ratio Lower Upper

63 100

41 0.0 61.7 92.5#

62 16.8 57.6 86.4#



#51

2-Hexanone

Concen: 0.049 ppbv

RT: 7.467 min Scan# 2280

Delta R.T. 0.035 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

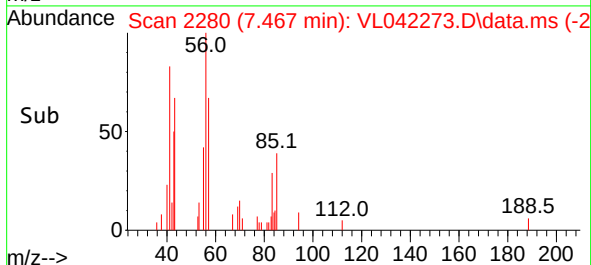
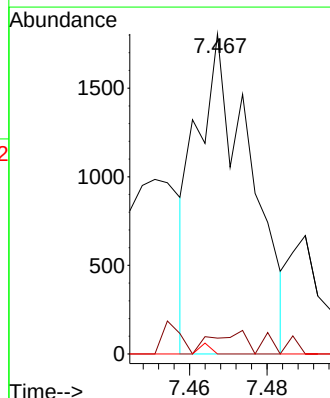
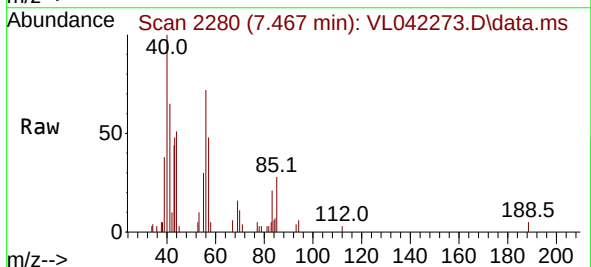
Tgt Ion: 43 Resp: 1738

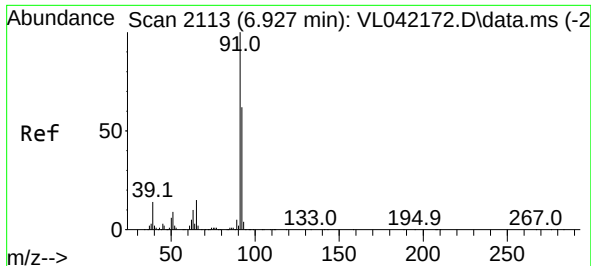
Ion Ratio Lower Upper

43 100

58 0.0 39.7 59.5#

98 0.0 0.1 0.1#

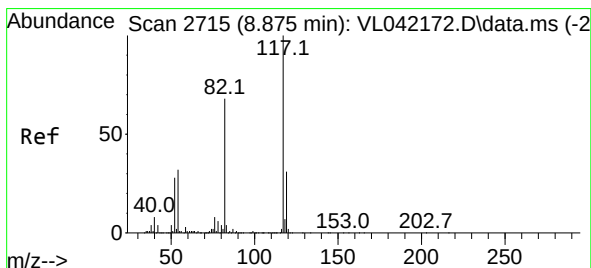
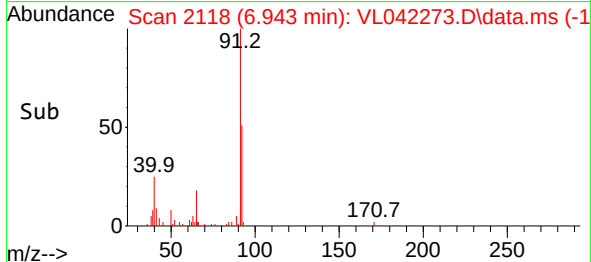
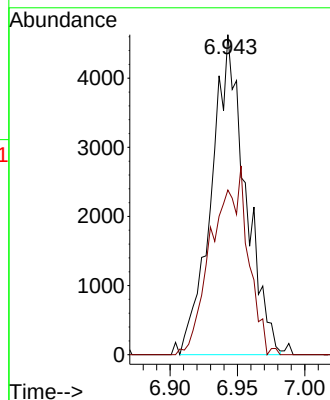
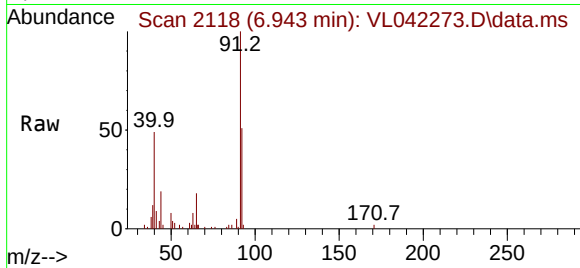




#53
Toluene
Concen: 0.183 ppbv
RT: 6.943 min Scan# 2113
Delta R.T. 0.016 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

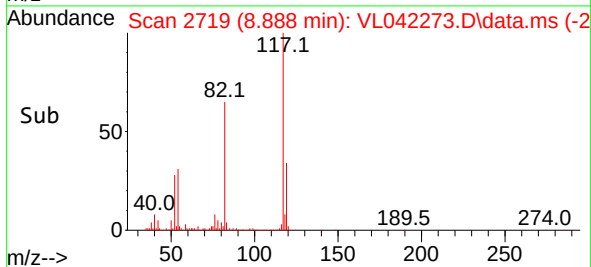
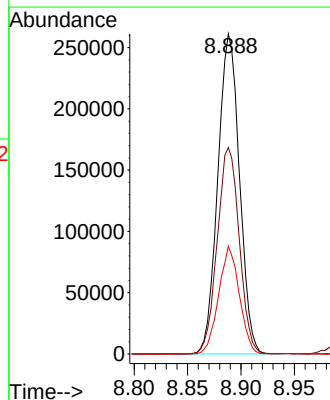
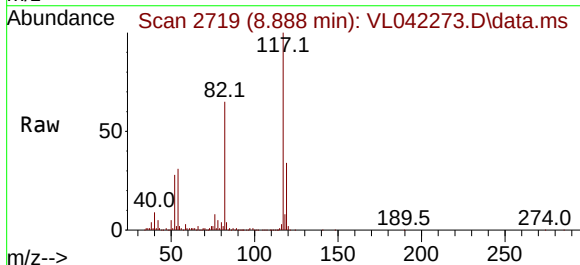
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

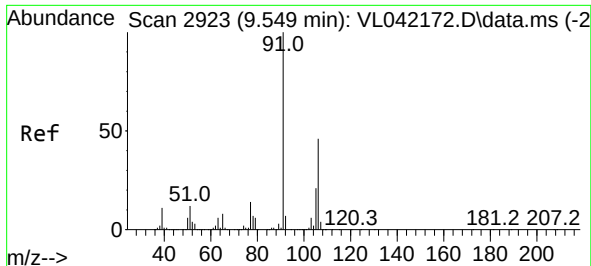
Tgt Ion: 91 Resp: 8155
Ion Ratio Lower Upper
91 100
92 61.1 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 117 Resp: 368372
Ion Ratio Lower Upper
117 100
82 65.6 55.8 83.6
119 32.2 25.5 38.3





#59

m/p-Xylene

Concen: 0.055 ppbv

RT: 9.552 min Scan# 2923

Delta R.T. 0.003 min

Lab File: VL042273.D

Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_1

ClientSampleId :

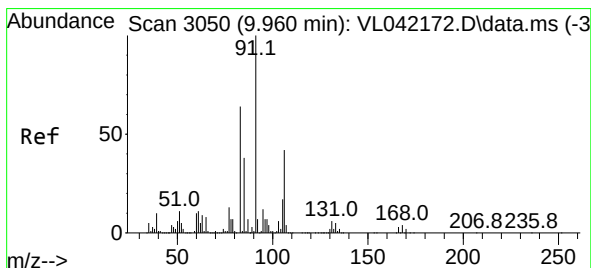
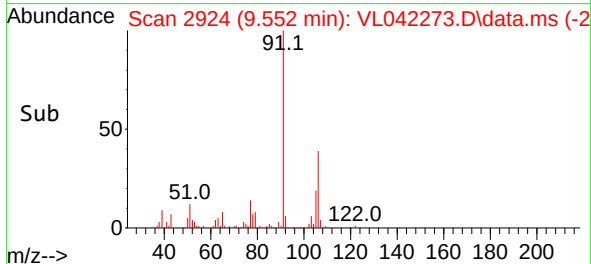
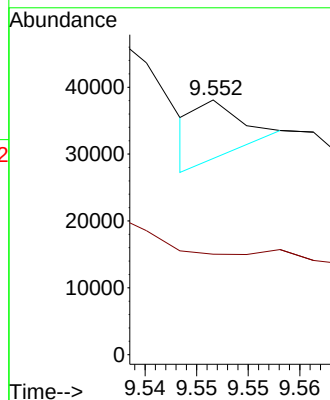
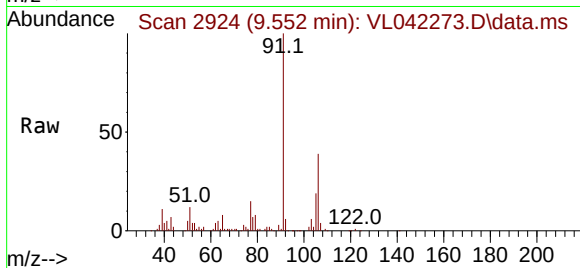
SSSG-B2-4-04022025DL

Tgt Ion: 91 Resp: 2857

Ion Ratio Lower Upper

91 100

106 0.0 36.4 54.6#



#60

o-Xylene

Concen: 1.543 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.013 min

Lab File: VL042273.D

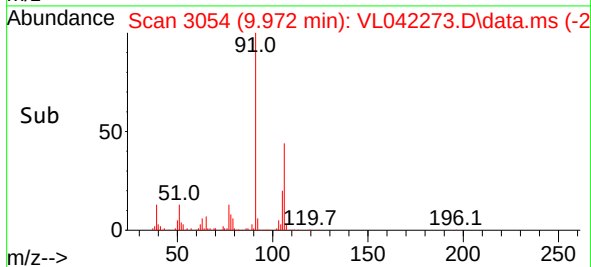
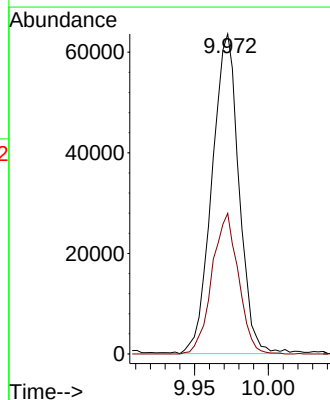
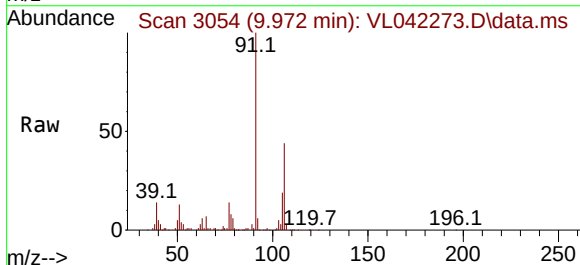
Acq: 08 Apr 2025 21:37

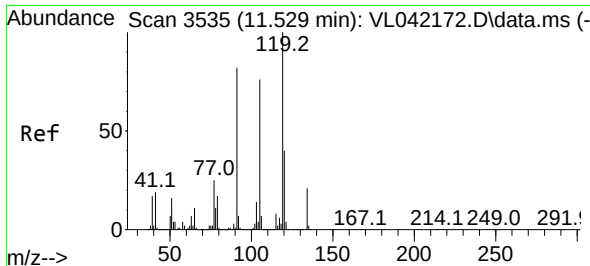
Tgt Ion: 91 Resp: 80843

Ion Ratio Lower Upper

91 100

106 43.1 20.8 62.5

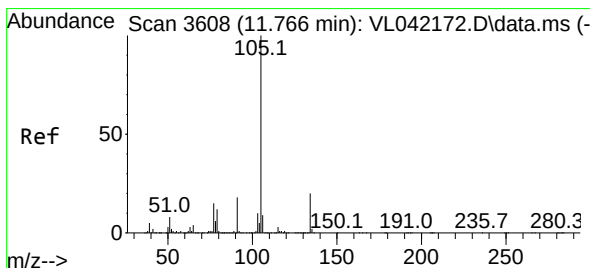
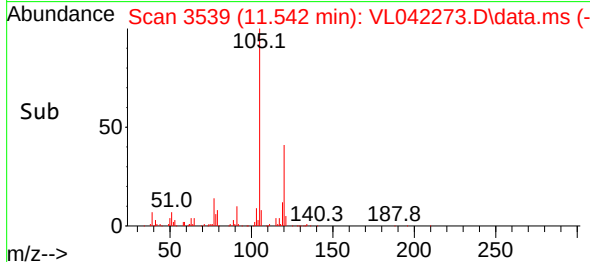
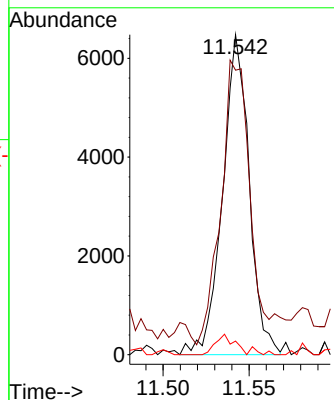
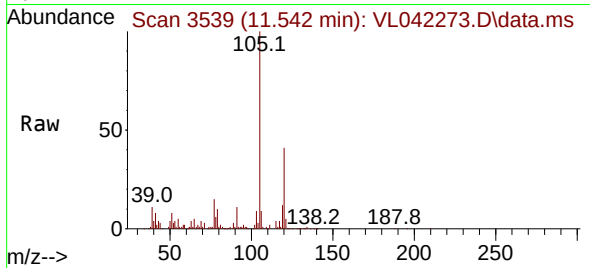




#65
tert-Butylbenzene
Concen: 0.096 ppbv
RT: 11.542 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

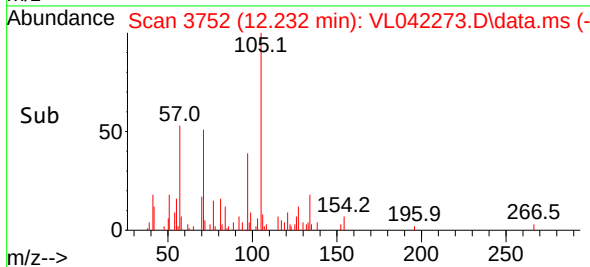
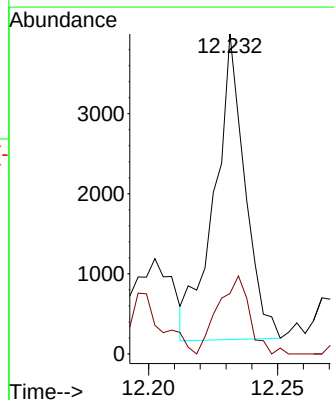
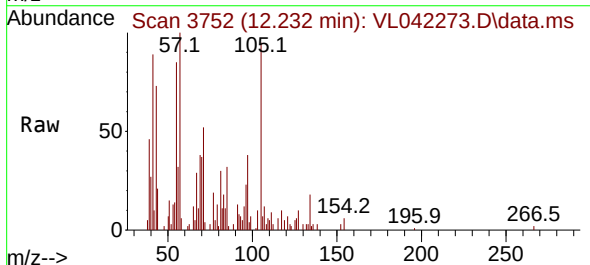
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

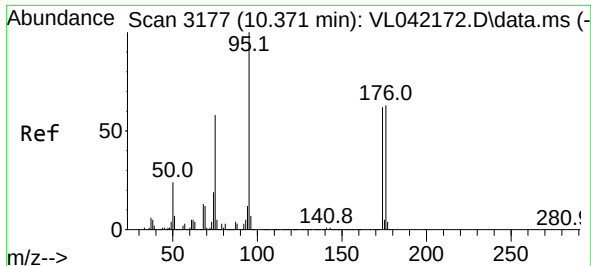
Tgt Ion:119 Resp: 6962
Ion Ratio Lower Upper
119 100
91 112.8 66.0 99.0#
134 5.1 16.7 25.1#



#67
sec-Butylbenzene
Concen: 0.031 ppbv
RT: 12.232 min Scan# 3752
Delta R.T. 0.466 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion:105 Resp: 3123
Ion Ratio Lower Upper
105 100
134 21.3 15.5 23.3

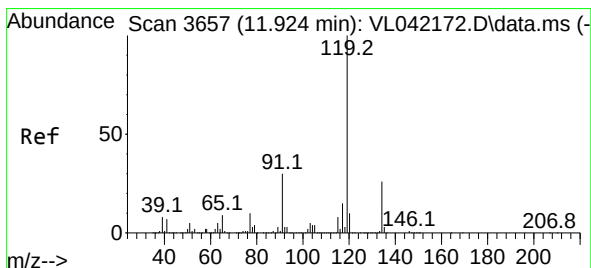
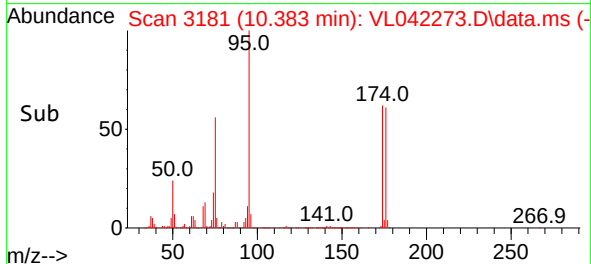
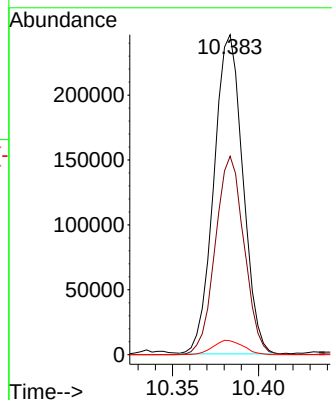
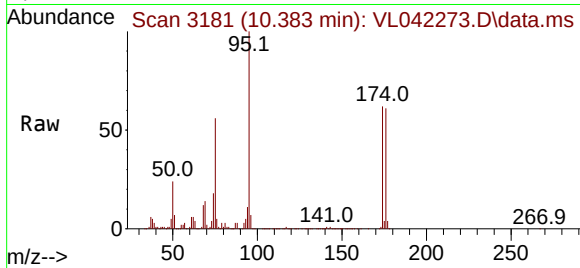




#68
1-Bromo-4-Fluorobenzene
Concen: 9.526 ppbv
RT: 10.383 min Scan# 3177
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

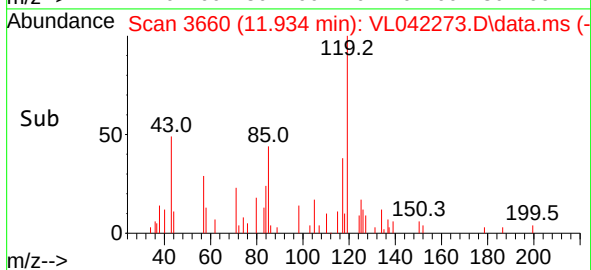
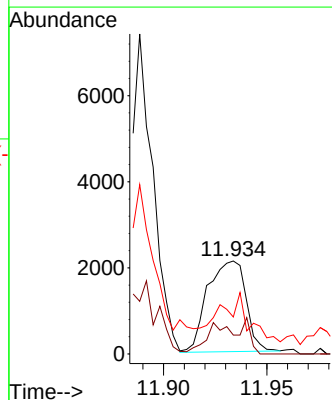
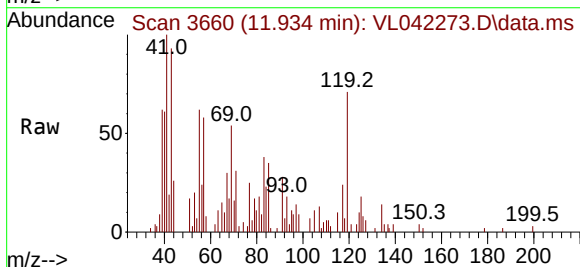
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

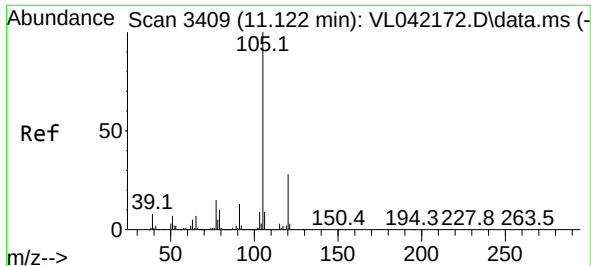
Tgt Ion: 95 Resp: 288158
Ion Ratio Lower Upper
95 100
174 61.8 50.6 76.0
175 4.7 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.031 ppbv
RT: 11.934 min Scan# 3660
Delta R.T. 0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion: 119 Resp: 2721
Ion Ratio Lower Upper
119 100
134 29.5 20.4 30.6
91 47.8 23.7 35.5#

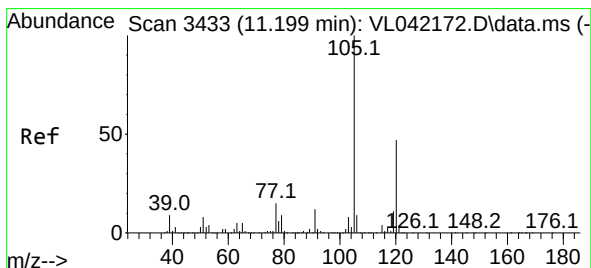
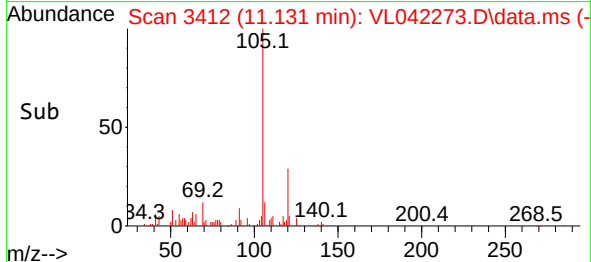
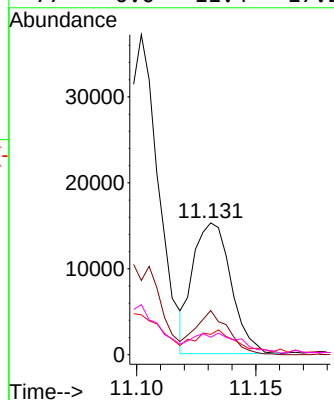
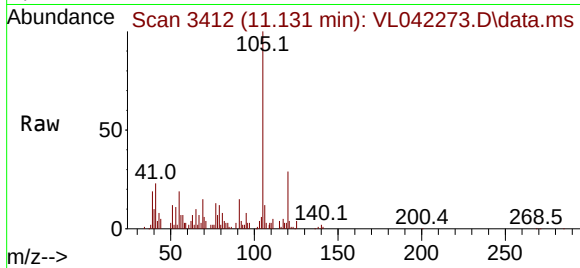




#72
4-Ethyltoluene
Concen: 0.260 ppbv
RT: 11.131 min Scan# 3409
Delta R.T. 0.010 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

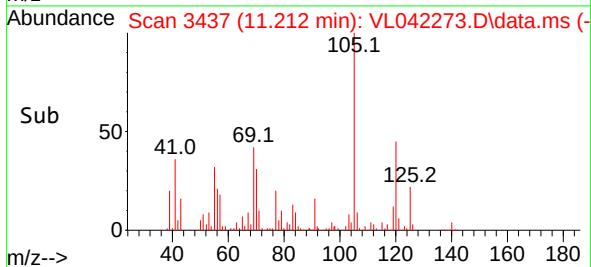
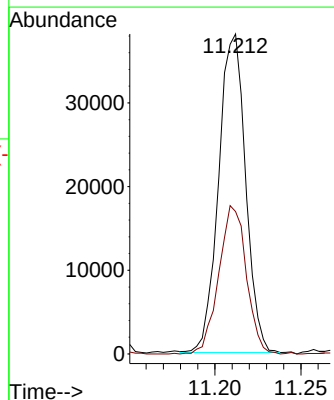
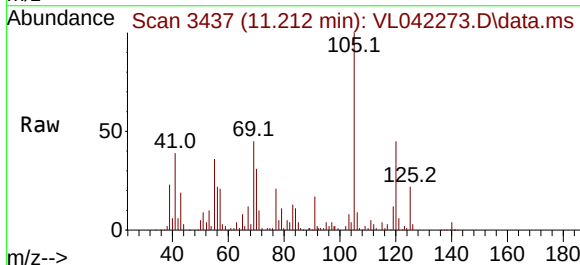
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-4-04022025DL

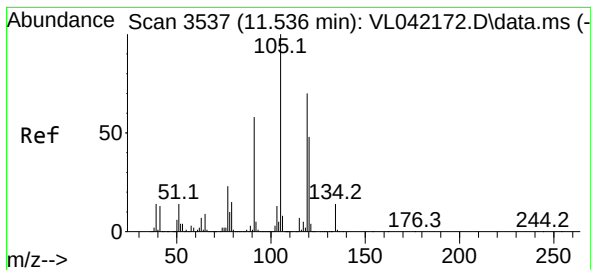
Tgt Ion:	105	Resp:	16952
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.0#
91	0.0	10.3	15.5#
77	0.0	11.4	17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.729 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.013 min
Lab File: VL042273.D
Acq: 08 Apr 2025 21:37

Tgt Ion:	105	Resp:	41500
Ion	Ratio	Lower	Upper
105	100		
120	44.7	37.4	56.0





#74

1,2,4-Trimethylbenzene

Concen: 0.800 ppbv

RT: 11.542 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL042273.D

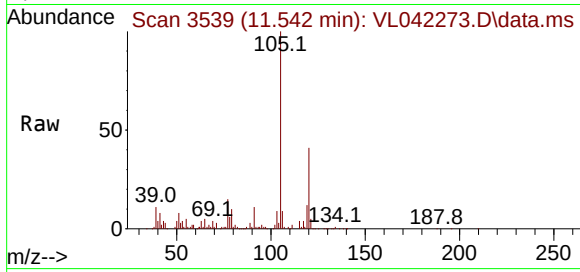
Acq: 08 Apr 2025 21:37

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-4-04022025DL



Tgt Ion:	105	Resp:	52472
Ion	Ratio	Lower	Upper
105	100		
120	41.0	38.6	58.0
91	9.8	46.2	69.2#
77	14.4	18.6	27.8#

