

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050525\
 Data File : VL042470.D
 Acq On : 05 May 2025 09:19
 Operator : SY/MD
 Sample : VL0505ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0505ABL01

Quant Time: May 06 01:38:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL050125AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 02 03:16:31 2025
 Response via : Initial Calibration

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

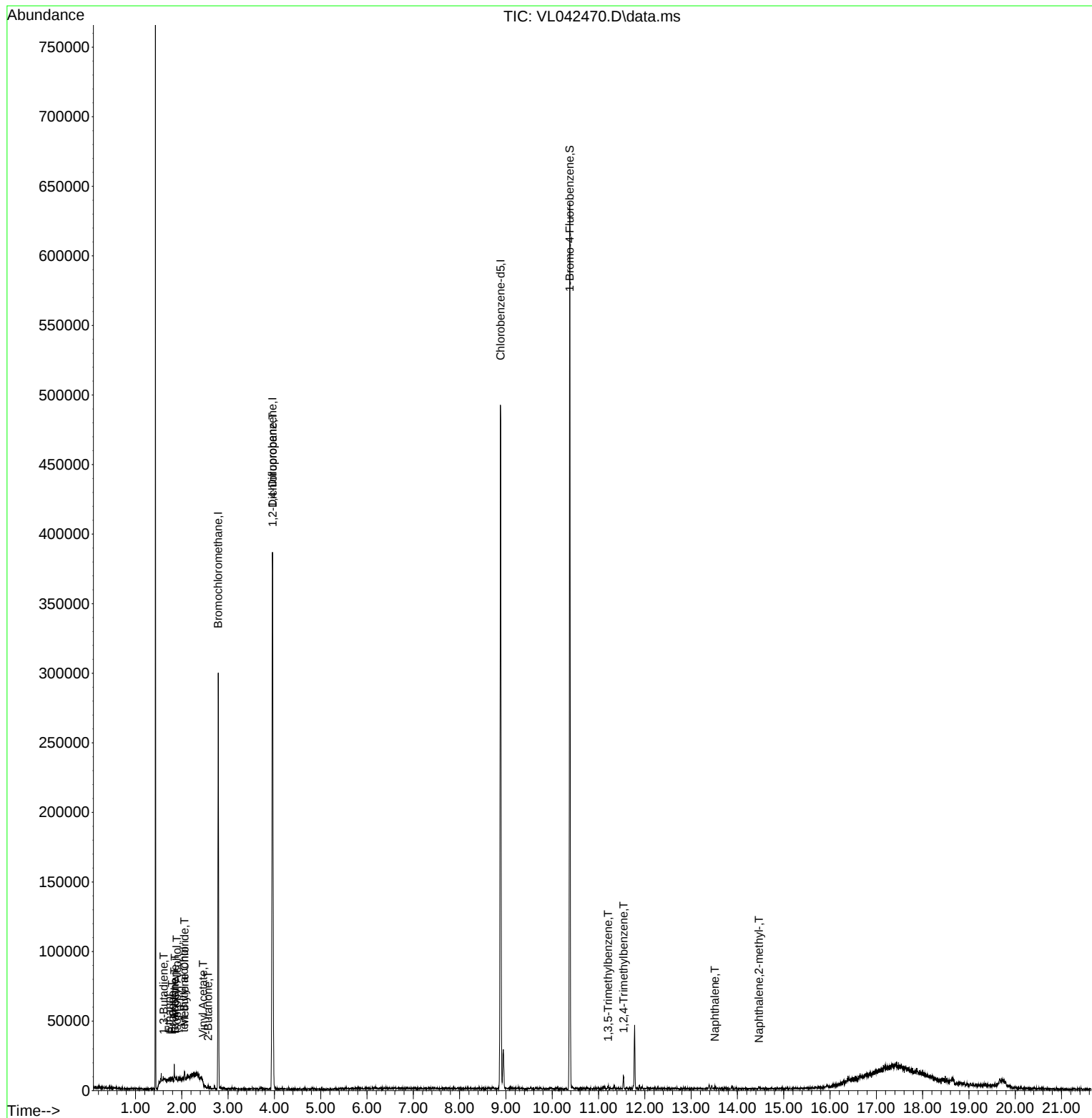
Internal Standards						
1) Bromochloromethane	2.787	49	74757	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	208518	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	177829	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	161047	9.768	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
9) Propene	1.787	41	402	0.094	ppbv	98
13) Ethanol	1.722	45	285	0.328	ppbv #	37
14) Bromoethene	1.855	108	108	0.032	ppbv #	1
15) Acetone	1.839	43	4322	0.317	ppbv #	77
16) 1,3-Butadiene	1.609	39	201	0.033	ppbv #	45
17) tert-Butyl alcohol	2.049	59	576	0.048	ppbv #	72
19) Isopropyl Alcohol	1.890	45	736	0.097	ppbv #	94
20) Methylene Chloride	2.059	84	1046	0.255	ppbv #	63
23) Vinyl Acetate	2.460	43	522	0.040	ppbv #	46
34) 2-Butanone	2.567	43	834	0.055	ppbv #	45
39) 1,2-Dichloropropane	3.962	63	58160	7.895	ppbv #	21
73) 1,3,5-Trimethylbenzene	11.205	105	953	0.037	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	3359	0.107	ppbv #	53
79) Naphthalene	13.513	128	890	0.034	ppbv #	77
80) Naphthalene,2-methyl-	14.465	142	646	0.033	ppbv #	81

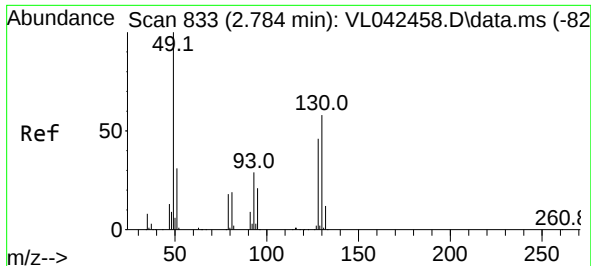
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 02 03:16:31 2025
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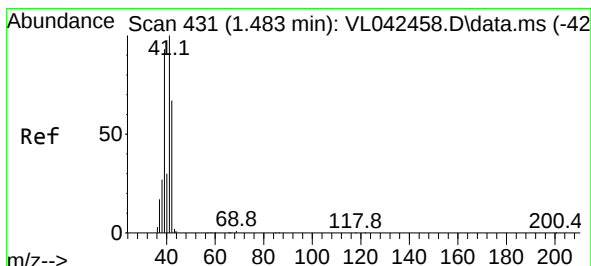
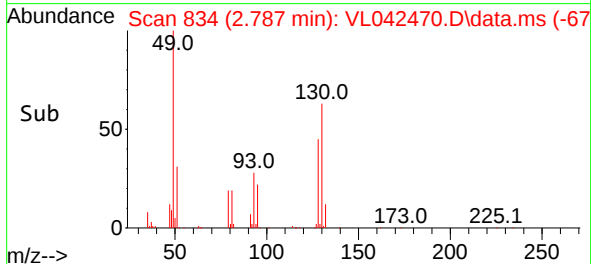
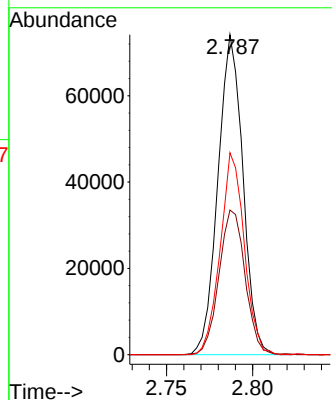
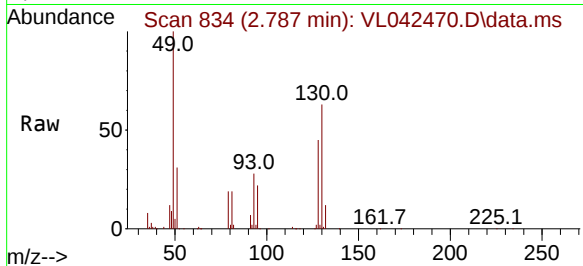




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042470.D
Acq: 05 May 2025 09:19

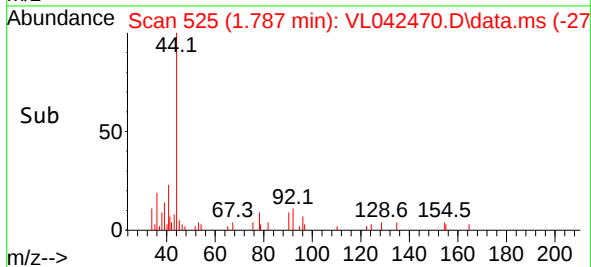
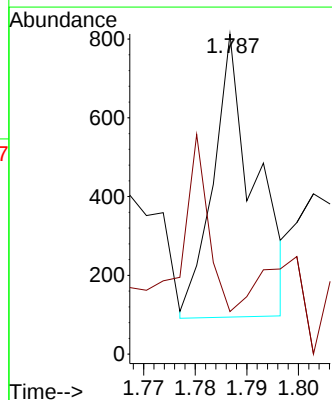
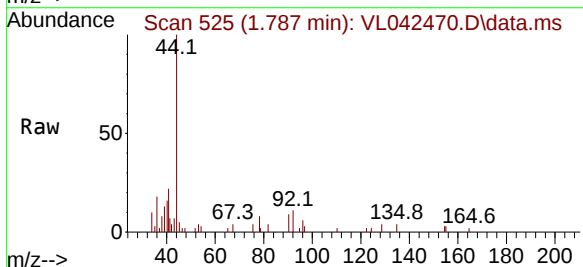
Instrument :
MSVOA_L
ClientSampleId :
VL0505ABL01

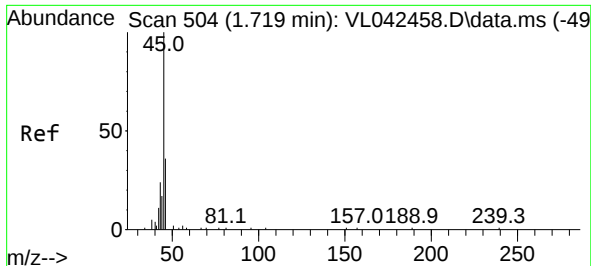
Tgt Ion: 49 Resp: 74757
Ion Ratio Lower Upper
49 100
128 47.4 23.3 69.9
130 61.2 29.5 88.6



#9
Propene
Concen: 0.094 ppbv
RT: 1.787 min Scan# 525
Delta R.T. 0.304 min
Lab File: VL042470.D
Acq: 05 May 2025 09:19

Tgt Ion: 41 Resp: 402
Ion Ratio Lower Upper
41 100
42 66.7 54.3 81.5

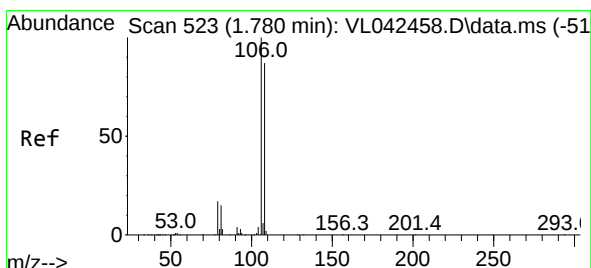
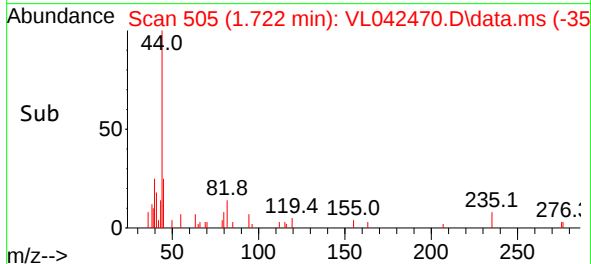
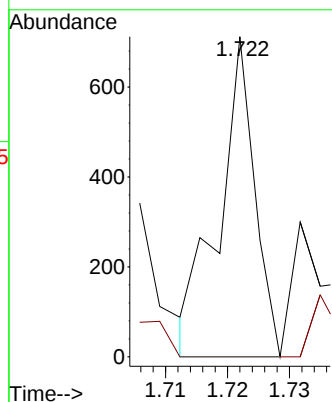
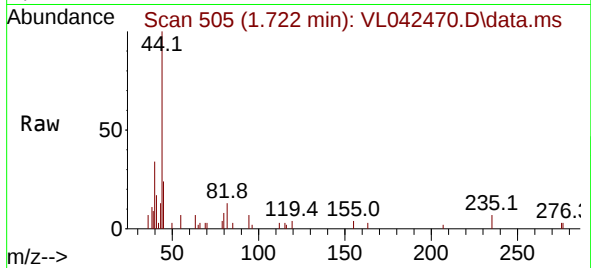




#13
 Ethanol
 Concen: 0.328 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042470.D
 Acq: 05 May 2025 09:19

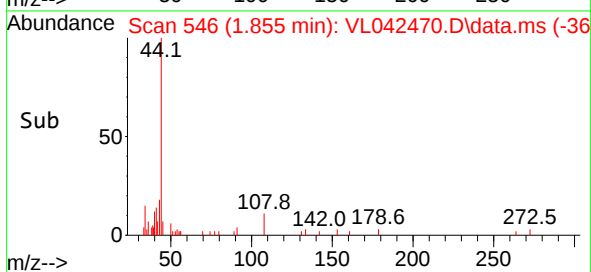
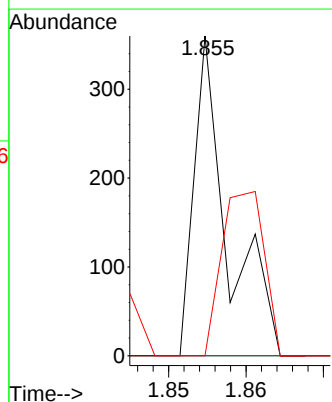
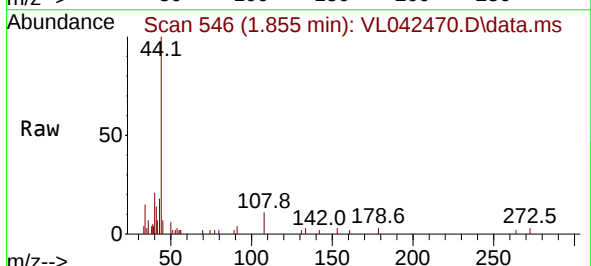
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0505ABL01

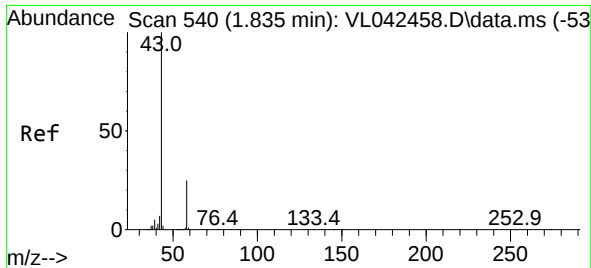
Tgt Ion: 45 Resp: 285
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.3 61.1#



#14
 Bromoethene
 Concen: 0.032 ppbv
 RT: 1.855 min Scan# 546
 Delta R.T. 0.074 min
 Lab File: VL042470.D
 Acq: 05 May 2025 09:19

Tgt Ion: 108 Resp: 108
 Ion Ratio Lower Upper
 108 100
 106 0.0 88.8 133.2#
 79 180.6 17.1 25.7#





#15

Acetone

Concen: 0.317 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042470.D

Acq: 05 May 2025 09:19

Instrument :

MSVOA_1

ClientSampleId :

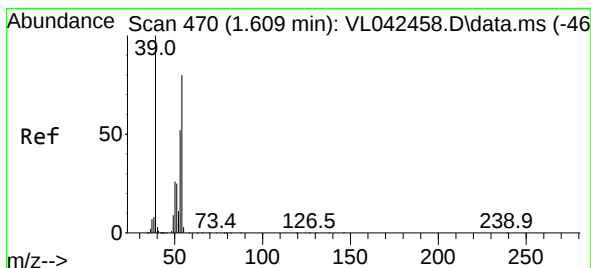
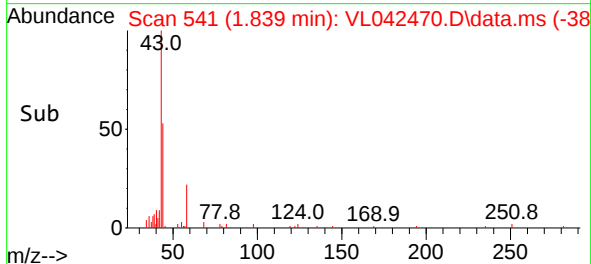
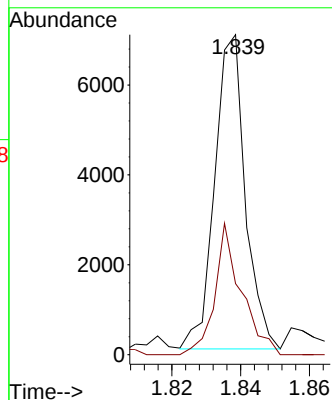
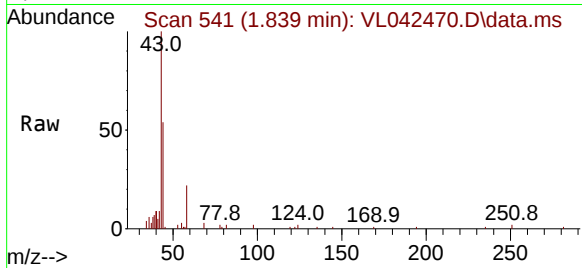
VL0505ABL01

Tgt Ion: 43 Resp: 4322

Ion Ratio Lower Upper

43 100

58 36.1 19.8 29.8#



#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 1.609 min Scan# 470

Delta R.T. -0.000 min

Lab File: VL042470.D

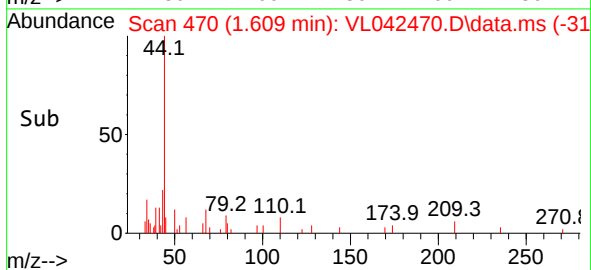
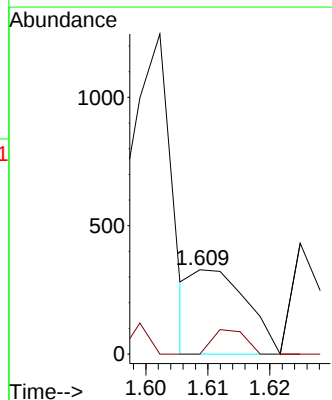
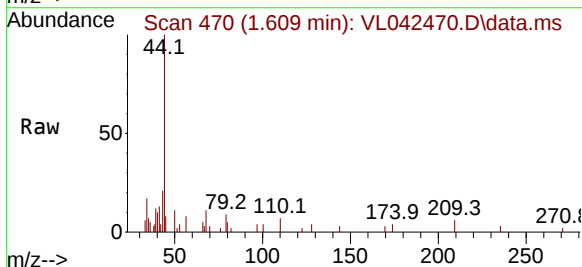
Acq: 05 May 2025 09:19

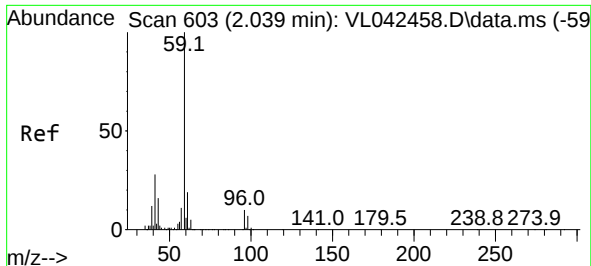
Tgt Ion: 39 Resp: 201

Ion Ratio Lower Upper

39 100

54 24.4 55.2 82.8#





#17

tert-Butyl alcohol

Concen: 0.048 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042470.D

Acq: 05 May 2025 09:19

Instrument :

MSVOA_1

ClientSampleId :

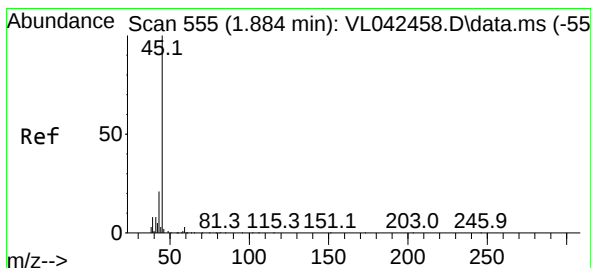
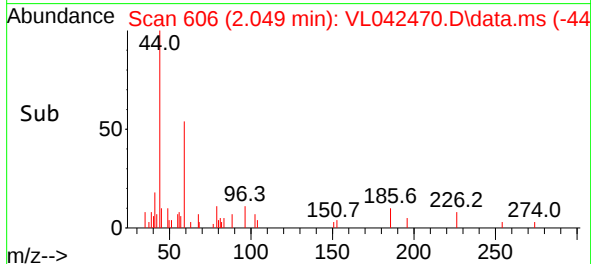
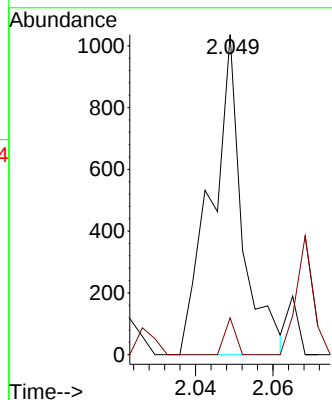
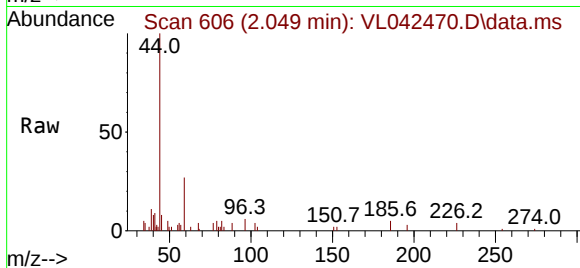
VL0505ABL01

Tgt Ion: 59 Resp: 576

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 0.097 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042470.D

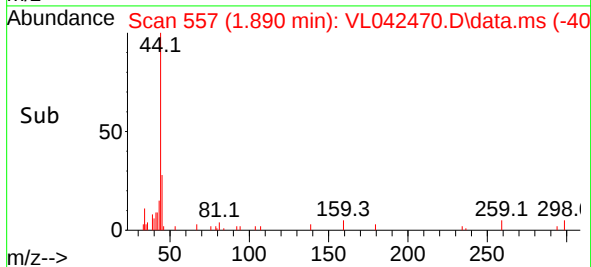
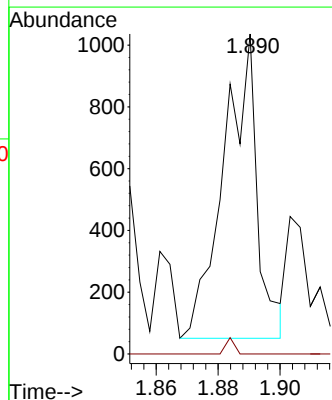
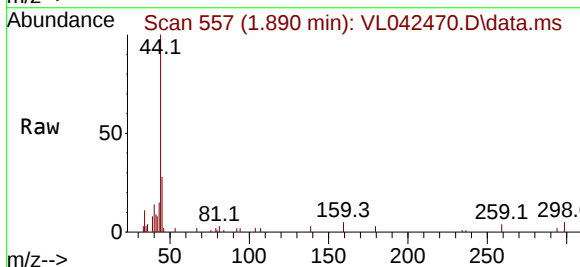
Acq: 05 May 2025 09:19

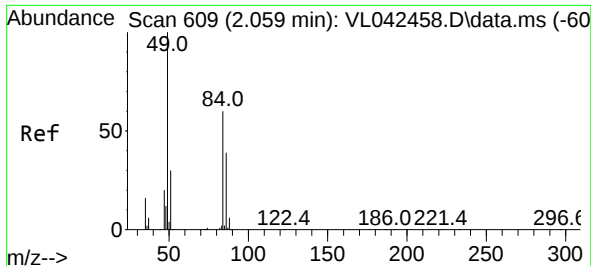
Tgt Ion: 45 Resp: 736

Ion Ratio Lower Upper

45 100

58 0.0 1.6 2.4#





#20

Methylene Chloride

Concen: 0.255 ppbv

RT: 2.059 min Scan# 609

Delta R.T. -0.000 min

Lab File: VL042470.D

Acq: 05 May 2025 09:19

Instrument :

MSVOA_L

ClientSampleId :

VL0505ABL01

Tgt Ion: 84 Resp: 1046

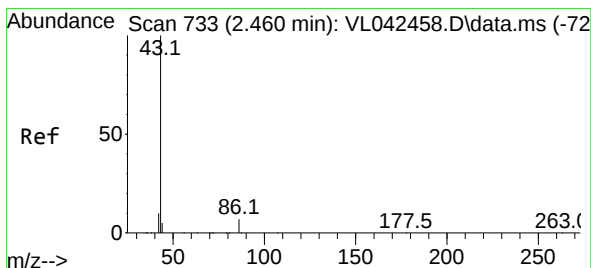
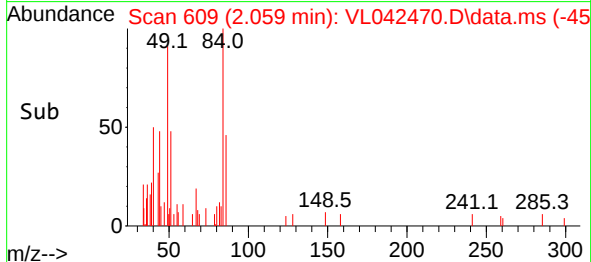
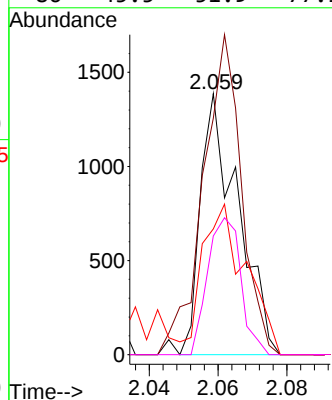
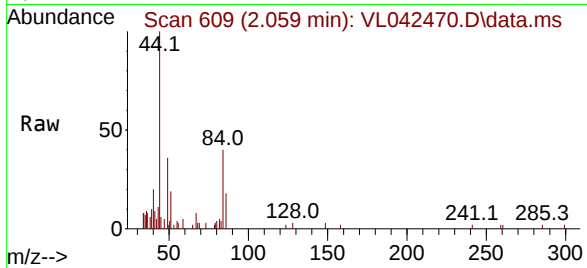
Ion Ratio Lower Upper

84 100

49 96.2 133.9 200.9#

51 48.2 41.0 61.6

86 45.5 51.9 77.9#



#23

Vinyl Acetate

Concen: 0.040 ppbv

RT: 2.460 min Scan# 733

Delta R.T. -0.000 min

Lab File: VL042470.D

Acq: 05 May 2025 09:19

Tgt Ion: 43 Resp: 522

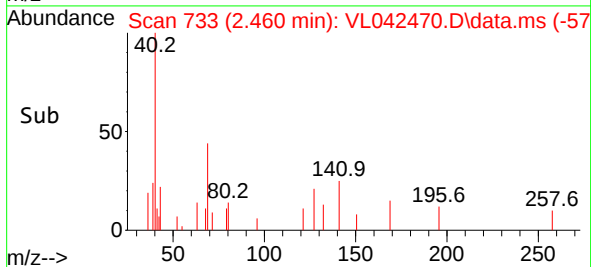
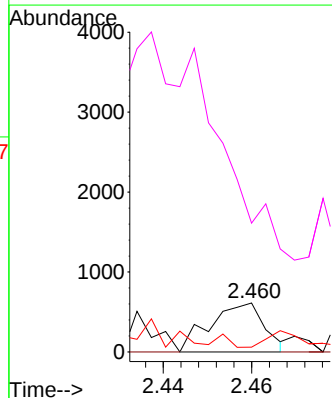
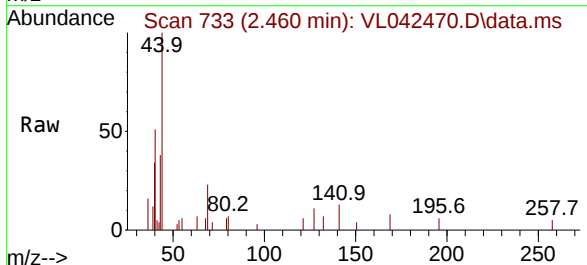
Ion Ratio Lower Upper

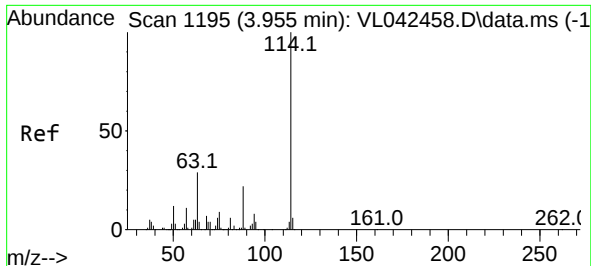
43 100

86 0.0 5.5 8.3#

42 0.0 8.3 12.5#

44 52.7 4.6 7.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042470.D

Acq: 05 May 2025 09:19

Instrument :

MSVOA_L

ClientSampleId :

VL0505ABL01

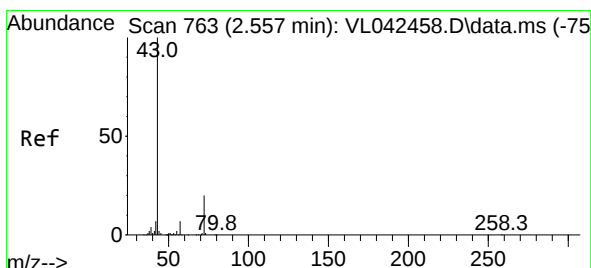
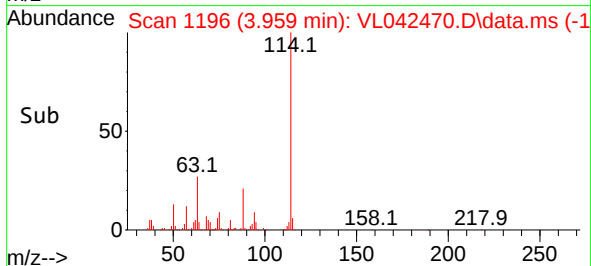
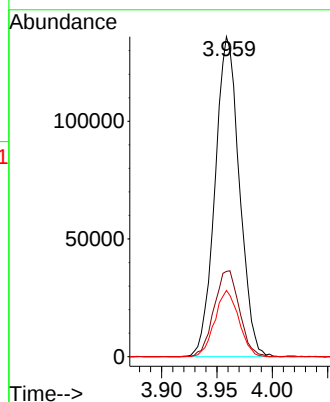
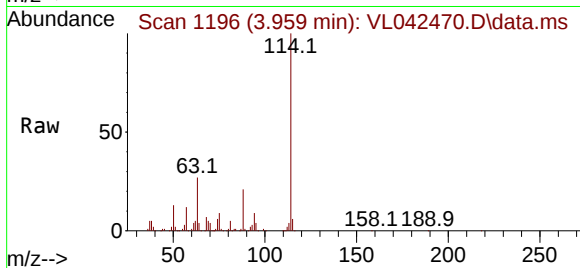
Tgt Ion:114 Resp: 208518

Ion Ratio Lower Upper

114 100

63 28.0 23.1 34.7

88 20.4 16.1 24.1



#34

2-Butanone

Concen: 0.055 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.010 min

Lab File: VL042470.D

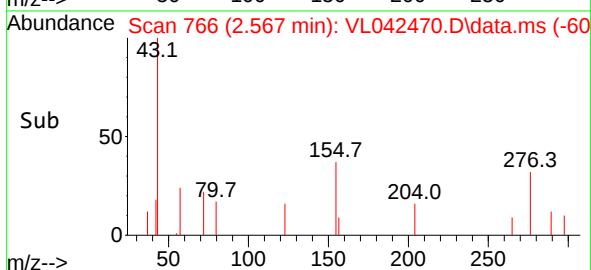
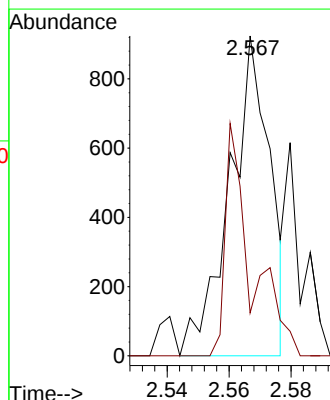
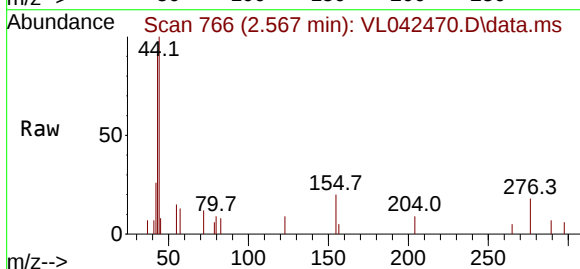
Acq: 05 May 2025 09:19

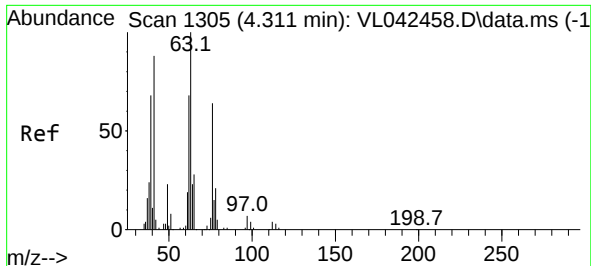
Tgt Ion: 43 Resp: 834

Ion Ratio Lower Upper

43 100

72 46.8 16.7 25.1#





#39

1,2-Dichloropropane

Concen: 7.895 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042470.D

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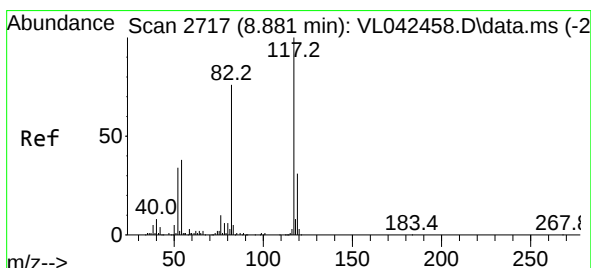
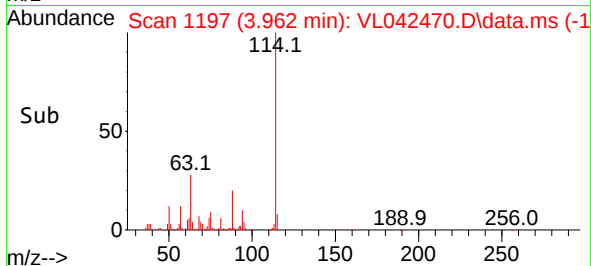
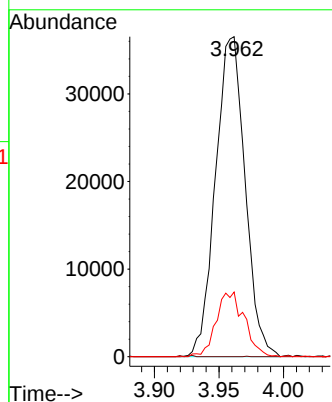
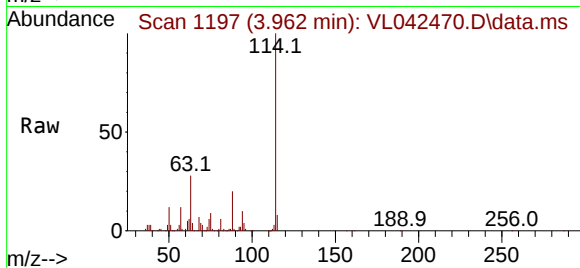
Tgt Ion: 63 Resp: 58160

Ion Ratio Lower Upper

63 100

41 0.0 69.8 104.6#

62 20.2 54.3 81.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 2717

Delta R.T. -0.000 min

Lab File: VL042470.D

Acq: 05 May 2025 09:19

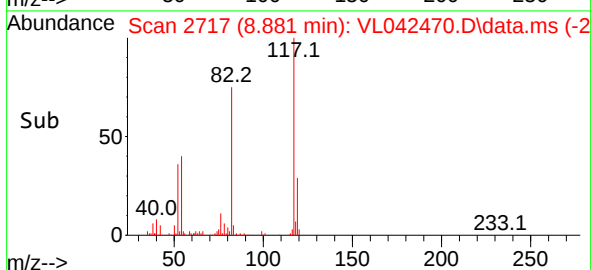
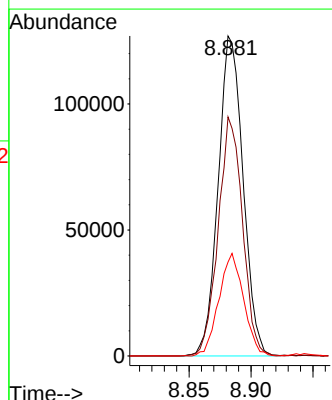
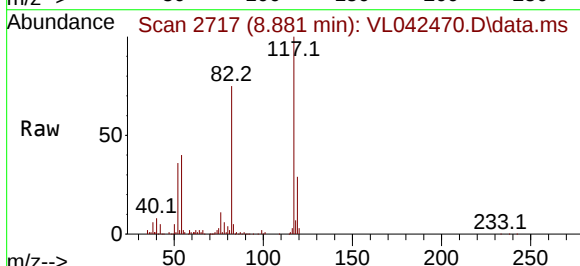
Tgt Ion: 117 Resp: 177829

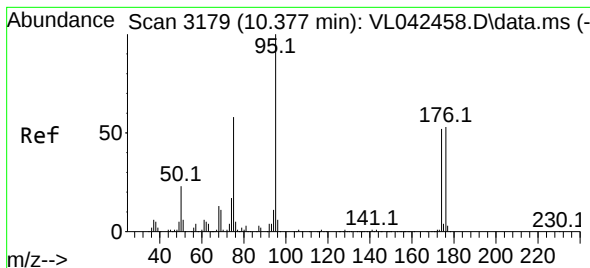
Ion Ratio Lower Upper

117 100

82 73.0 63.5 95.3

119 31.9 25.8 38.8

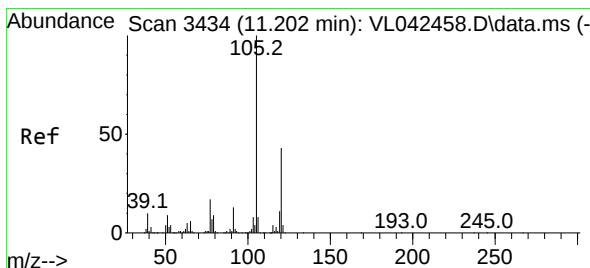
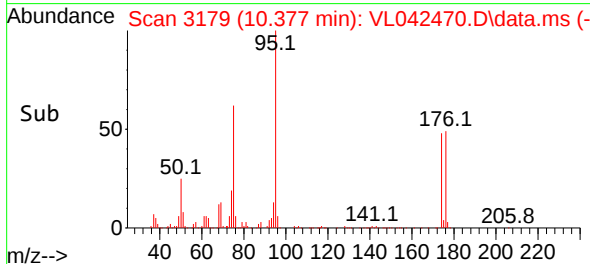
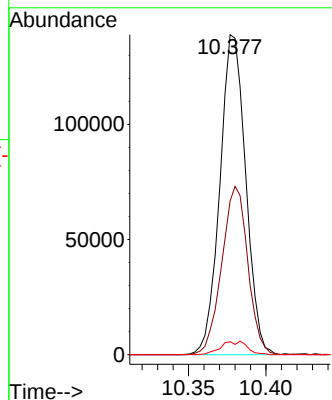
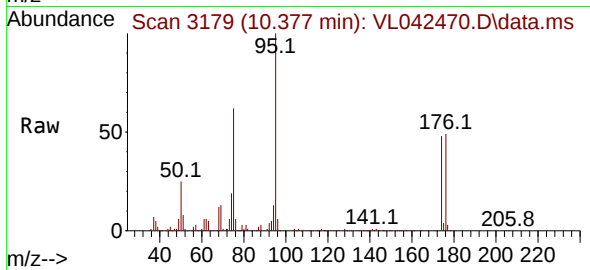




#68
1-Bromo-4-Fluorobenzene
Concen: 9.768 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042470.D
Acq: 05 May 2025 09:19

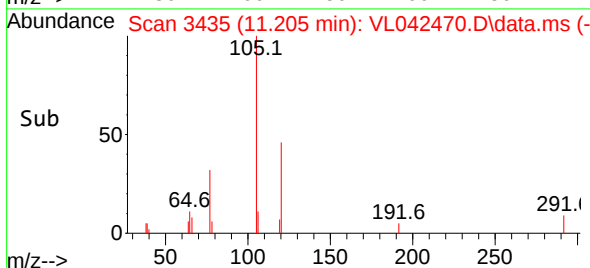
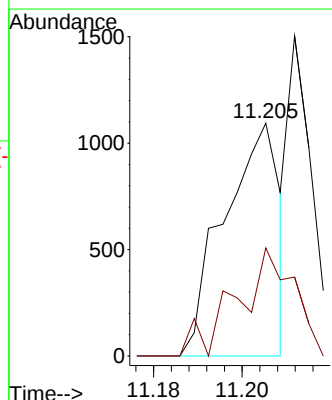
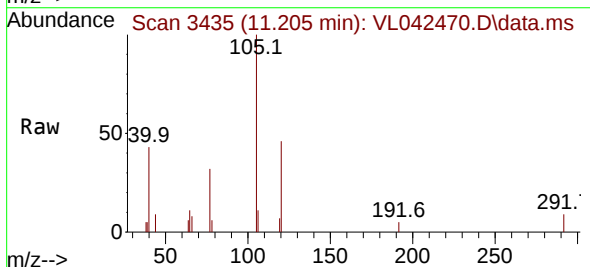
Instrument :
MSVOA_L
ClientSampleId :
VL0505ABL01

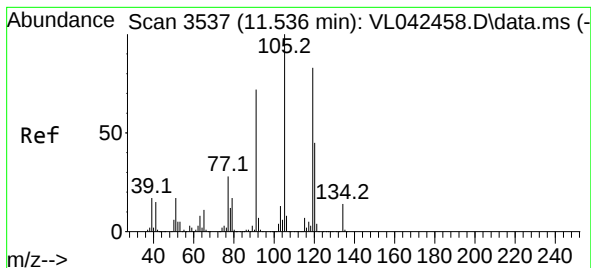
Tgt Ion: 95 Resp: 161047
Ion Ratio Lower Upper
95 100
174 53.1 42.7 64.1
175 4.3 3.6 5.4



#73
1,3,5-Trimethylbenzene
Concen: 0.037 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.003 min
Lab File: VL042470.D
Acq: 05 May 2025 09:19

Tgt Ion: 105 Resp: 953
Ion Ratio Lower Upper
105 100
120 46.4 34.4 51.6





#74

1,2,4-Trimethylbenzene

Concen: 0.107 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.003 min

Lab File: VL042470.D

Acq: 05 May 2025 09:19

Instrument :

MSVOA_L

ClientSampleId :

VL0505ABL01

Tgt Ion:105 Resp: 3359

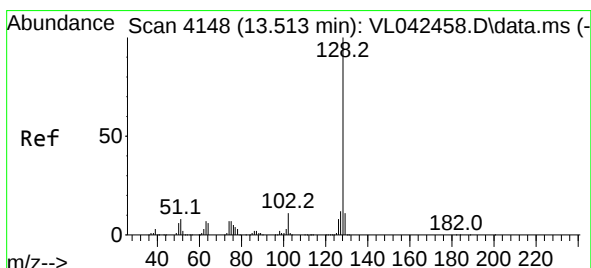
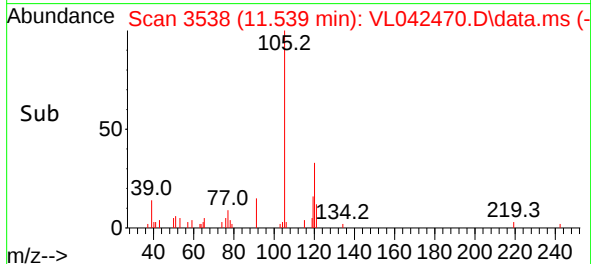
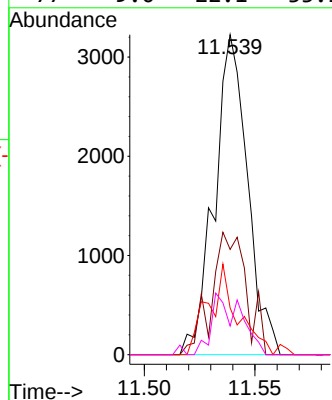
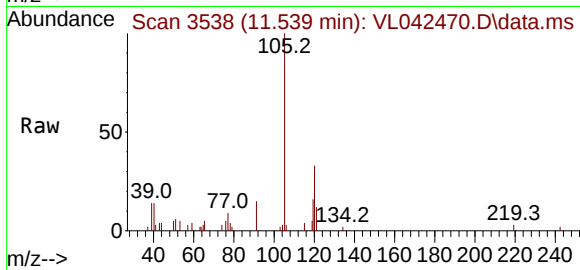
Ion Ratio Lower Upper

105 100

120 32.9 36.1 54.1#

91 14.6 57.6 86.4#

77 9.0 22.1 33.1#



#79

Naphthalene

Concen: 0.034 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042470.D

Acq: 05 May 2025 09:19

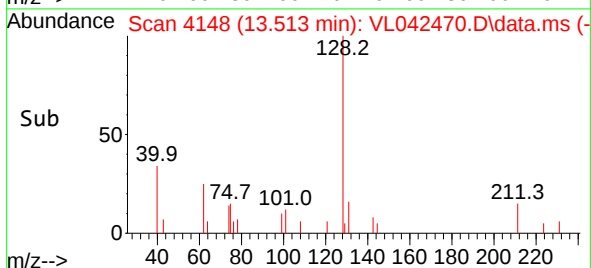
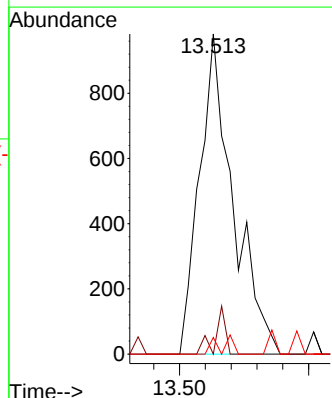
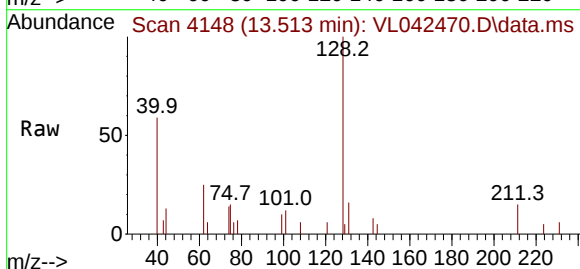
Tgt Ion:128 Resp: 890

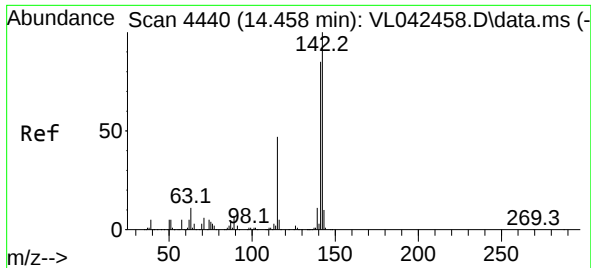
Ion Ratio Lower Upper

128 100

127 0.0 9.7 14.5#

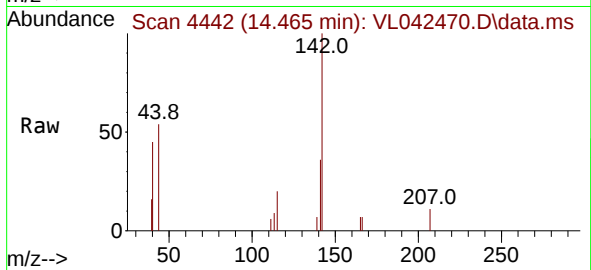
129 5.2 8.6 13.0#





#80
 Naphthalene, 2-methyl-
 Concen: 0.033 ppbv
 RT: 14.465 min Scan# 44
 Delta R.T. 0.006 min
 Lab File: VL042470.D
 Acq: 05 May 2025 09:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0505ABL01



Tgt Ion	Ratio	Lower	Upper
142	100		
141	65.6	67.4	101.0#
115	34.4	36.9	55.3#

