

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040725\
 Data File : VL042244.D
 Acq On : 07 Apr 2025 22:09
 Operator : SY/MD
 Sample : Q1725-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025DL

Quant Time: Apr 08 01:37:01 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)

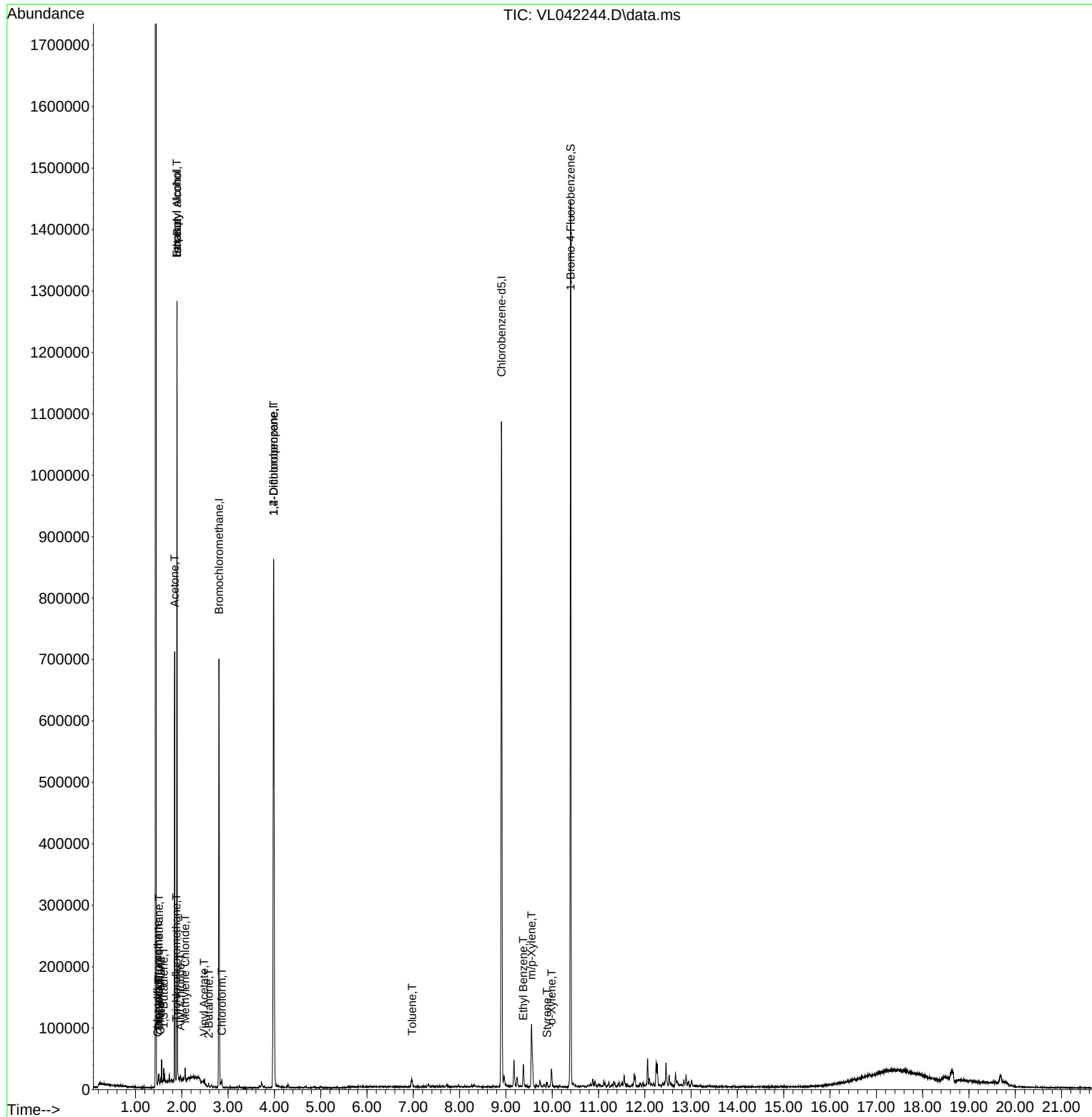
Internal Standards						
1) Bromochloromethane	2.803	49	190938	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.985	114	485801	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	425989	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	345971	9.890	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	3344	0.119	ppbv #	85
3) Chlorodifluoromethane	1.483	51	3442	0.120	ppbv	98
4) Chloromethane	1.538	50	1532	0.133	ppbv	100
9) Propene	1.496	41	1795	0.136	ppbv	98
11) Trichlorofluoromethane	1.884	101	1573	0.057	ppbv	95
13) Ethanol	1.894	45	547602	438.823	ppbv #	30
15) Acetone	1.845	43	291841	10.929	ppbv	95
16) 1,3-Butadiene	1.612	39	2053	0.157	ppbv #	36
17) tert-Butyl alcohol	1.897	59	20558	0.618	ppbv	98
19) Isopropyl Alcohol	1.894	45	547602	36.345	ppbv #	32
20) Methylene Chloride	2.072	84	2917	0.293	ppbv #	82
21) Allyl Chloride	1.971	41	1379	0.073	ppbv #	22
23) Vinyl Acetate	2.483	43	648	0.056	ppbv #	1
29) Chloroform	2.865	83	4185	0.107	ppbv #	81
34) 2-Butanone	2.580	43	3751	0.106	ppbv	97
39) 1,2-Dichloropropane	3.985	63	125530	7.157	ppbv #	22
53) Toluene	6.972	91	3122	0.055	ppbv #	1
58) Ethyl Benzene	9.374	91	19351	0.256	ppbv	98
59) m/p-Xylene	9.555	91	63265	1.047	ppbv	100
60) o-Xylene	9.985	91	12718	0.210	ppbv	94
61) Styrene	9.888	104	2020	0.067	ppbv	97

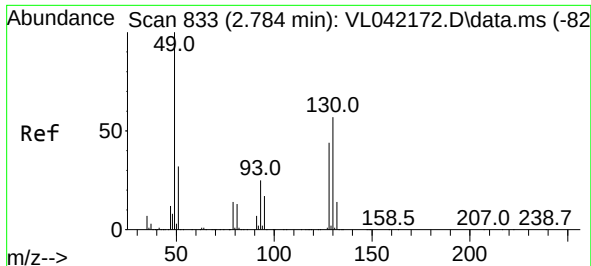
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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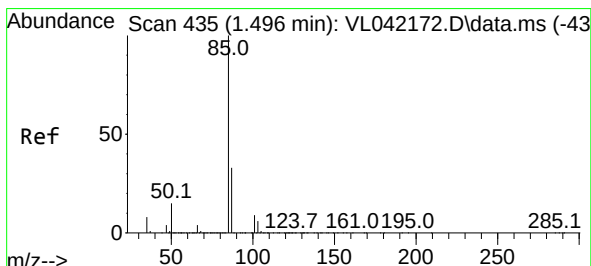
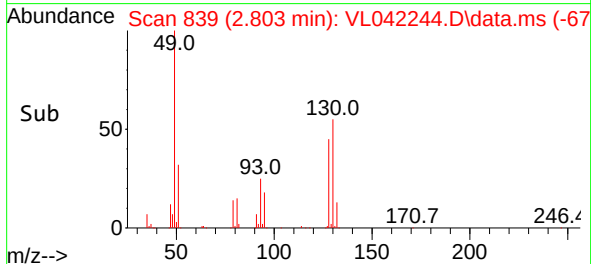
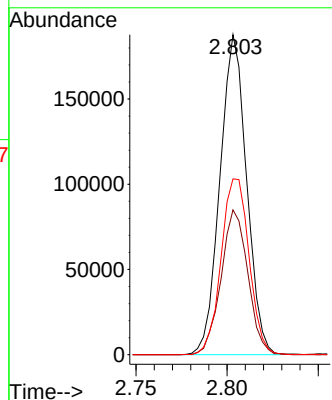
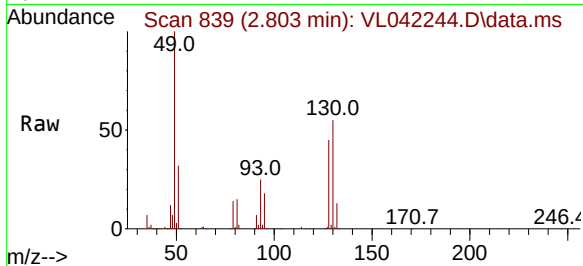




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.803 min Scan# 81
 Delta R.T. 0.019 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

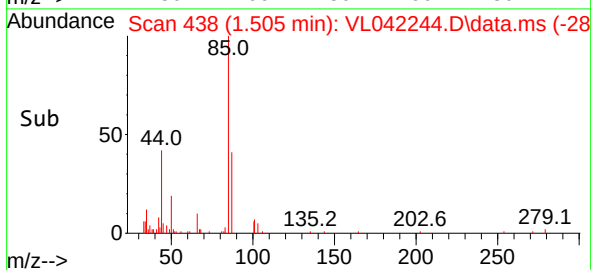
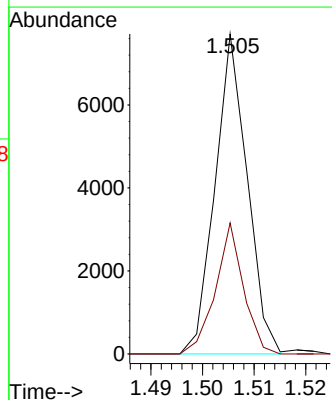
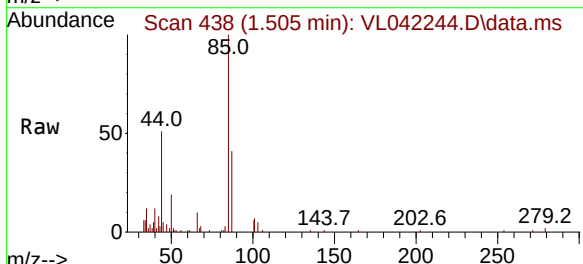
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-DUP-2-04012025DL

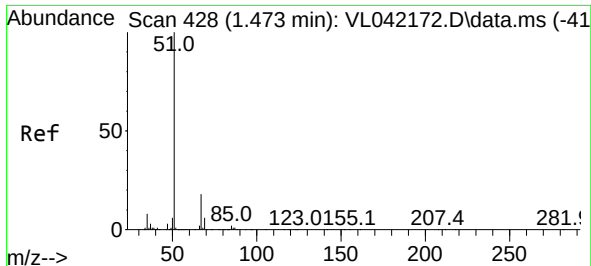
Tgt Ion: 49 Resp: 190938
 Ion Ratio Lower Upper
 49 100
 128 45.6 22.9 68.5
 130 57.8 28.8 86.4



#2
 Dichlorodifluoromethane
 Concen: 0.119 ppbv
 RT: 1.505 min Scan# 438
 Delta R.T. 0.010 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

Tgt Ion: 85 Resp: 3344
 Ion Ratio Lower Upper
 85 100
 87 41.0 26.1 39.1#

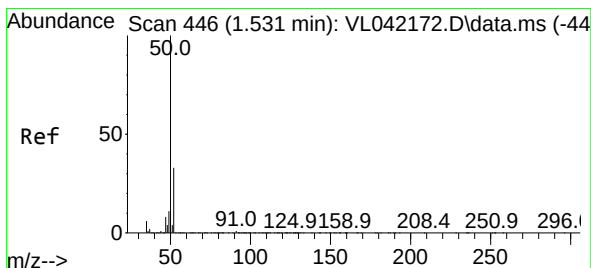
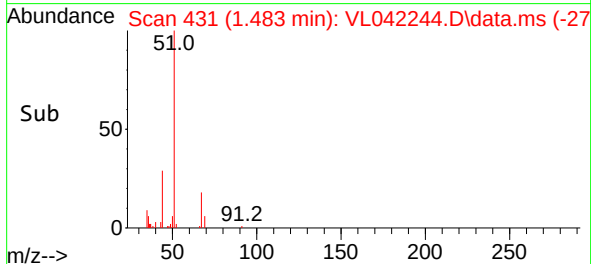
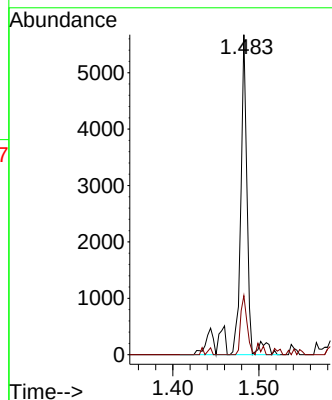
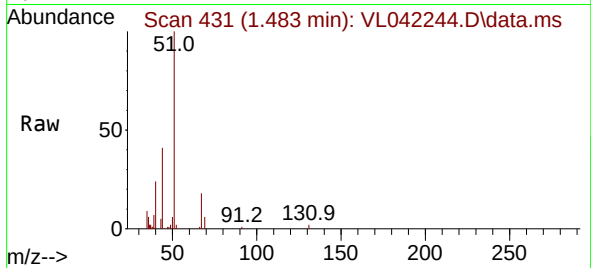




#3
Chlorodifluoromethane
Concen: 0.120 ppbv
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

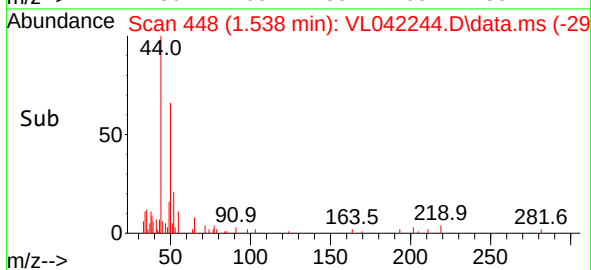
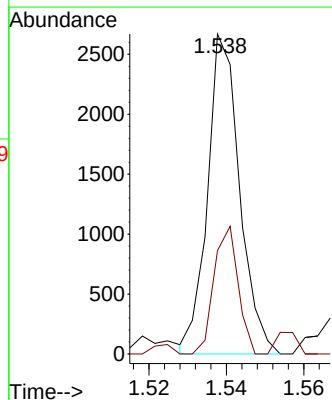
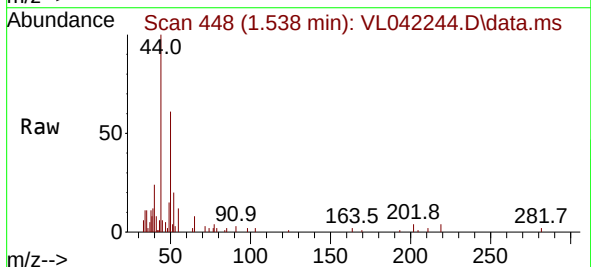
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

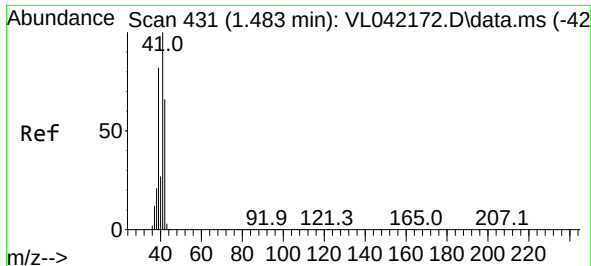
Tgt Ion: 51 Resp: 3442
Ion Ratio Lower Upper
51 100
67 18.0 15.0 22.6



#4
Chloromethane
Concen: 0.133 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 50 Resp: 1532
Ion Ratio Lower Upper
50 100
52 32.3 26.1 39.1





#9

Propene

Concen: 0.136 ppbv

RT: 1.496 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042244.D

Acq: 07 Apr 2025 22:09

Instrument :

MSVOA_L

ClientSampleId :

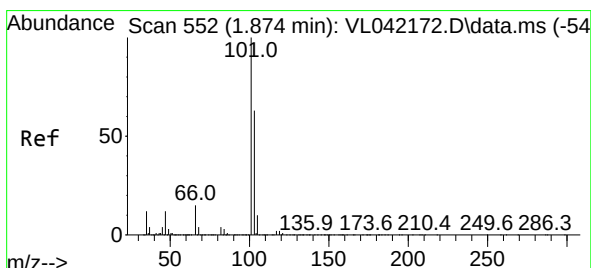
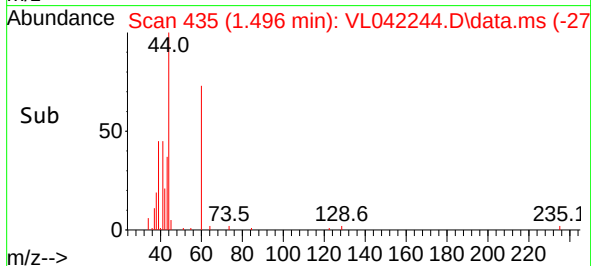
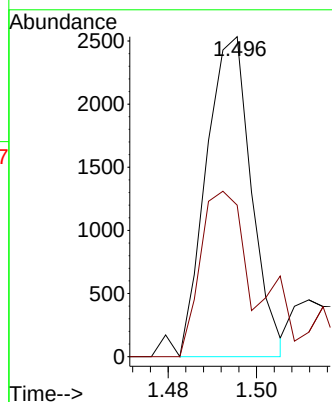
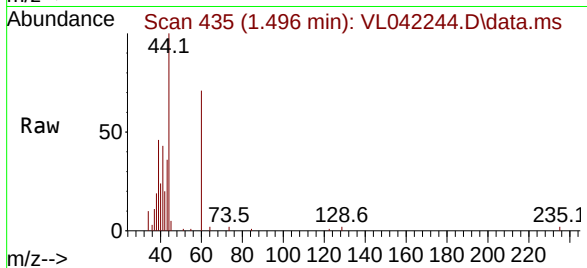
SSSG-DUP-2-04012025DL

Tgt Ion: 41 Resp: 1795

Ion Ratio Lower Upper

41 100

42 71.2 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.057 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.010 min

Lab File: VL042244.D

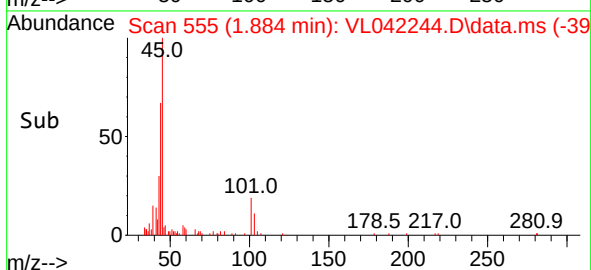
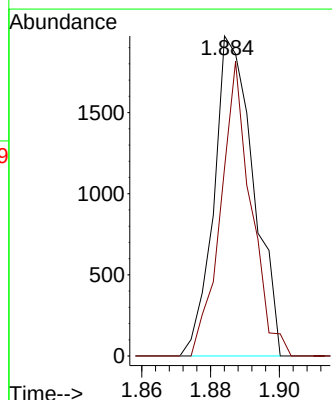
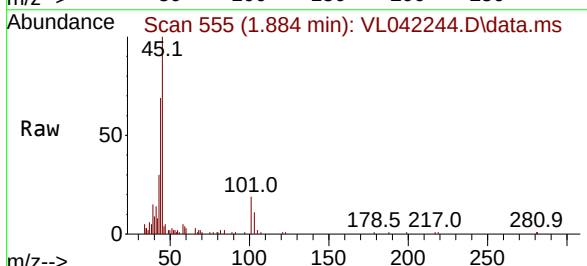
Acq: 07 Apr 2025 22:09

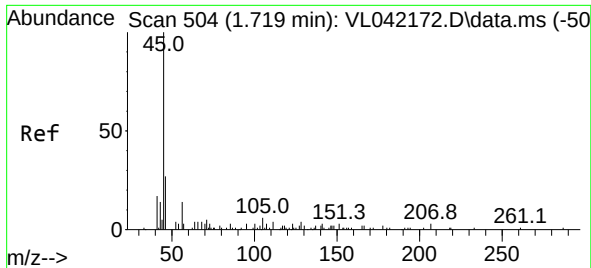
Tgt Ion: 101 Resp: 1573

Ion Ratio Lower Upper

101 100

103 58.7 50.2 75.2

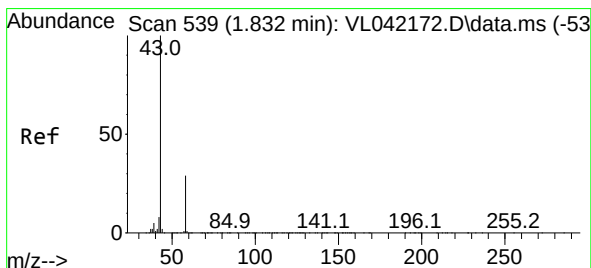
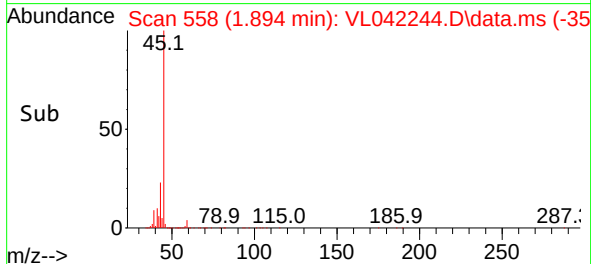
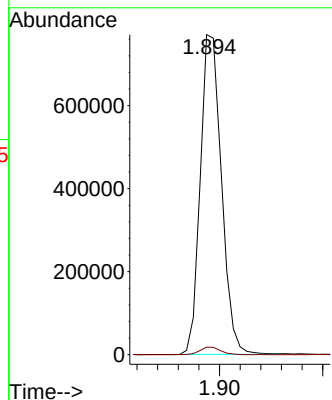
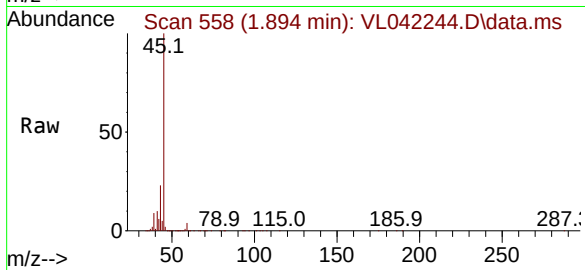




#13
Ethanol
Concen: 438.823 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.175 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

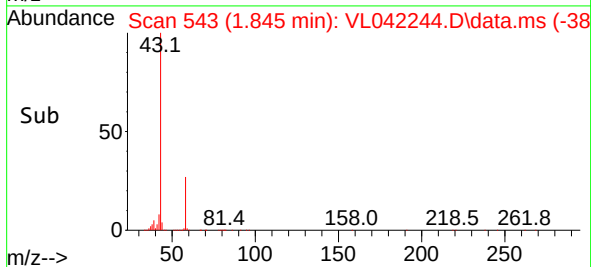
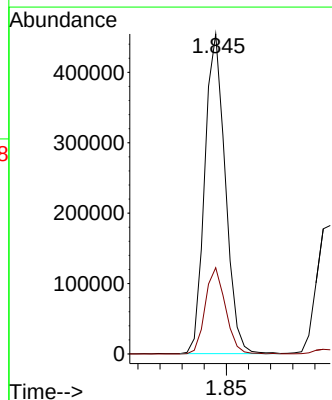
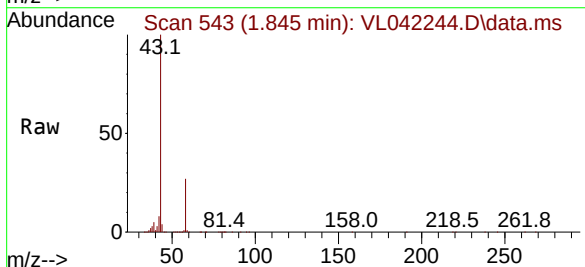
Instrument :
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ClientSampleId :
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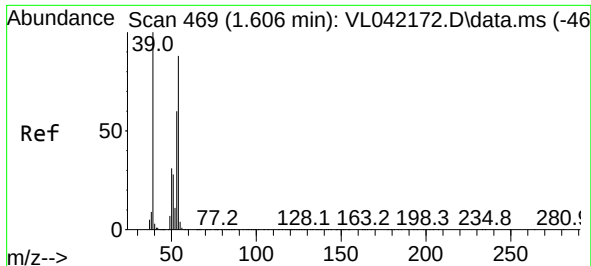
Tgt Ion: 45 Resp: 547602
Ion Ratio Lower Upper
45 100
46 2.3 20.2 80.8#



#15
Acetone
Concen: 10.929 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.013 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 43 Resp: 291841
Ion Ratio Lower Upper
43 100
58 26.6 23.2 34.8





#16

1,3-Butadiene

Concen: 0.157 ppbv

RT: 1.612 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042244.D

Acq: 07 Apr 2025 22:09

Instrument :

MSVOA_L

ClientSampleId :

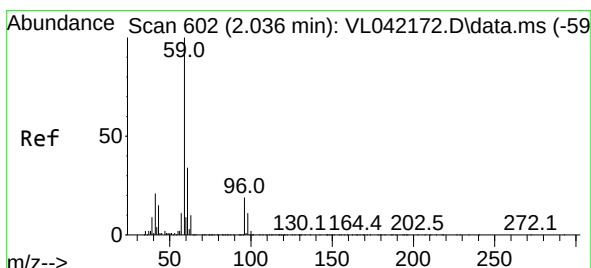
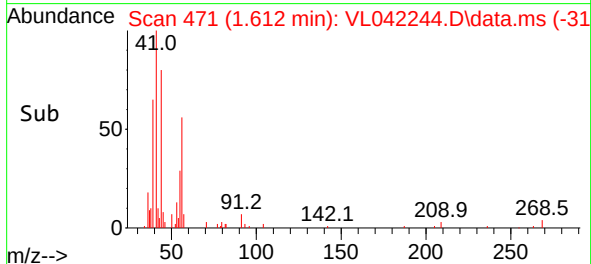
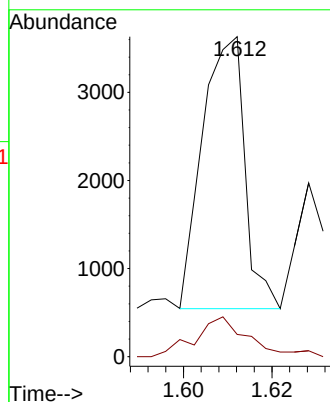
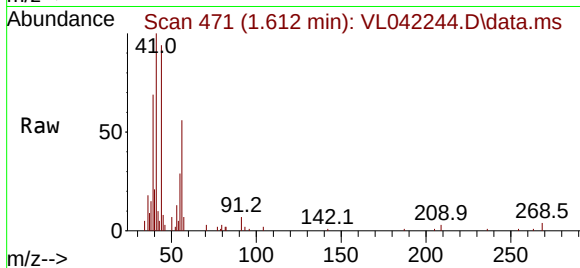
SSSG-DUP-2-04012025DL

Tgt Ion: 39 Resp: 2053

Ion Ratio Lower Upper

39 100

54 20.9 60.7 91.1#



#17

tert-Butyl alcohol

Concen: 0.618 ppbv

RT: 1.897 min Scan# 559

Delta R.T. -0.139 min

Lab File: VL042244.D

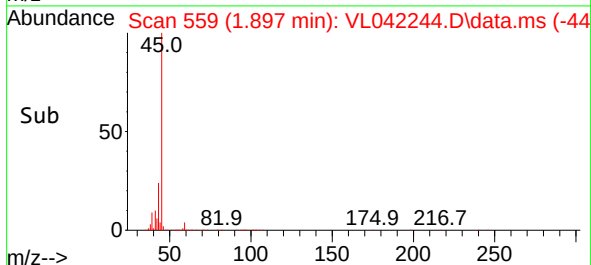
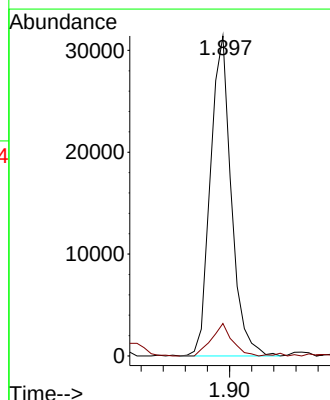
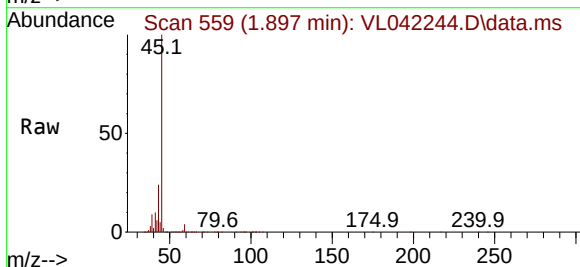
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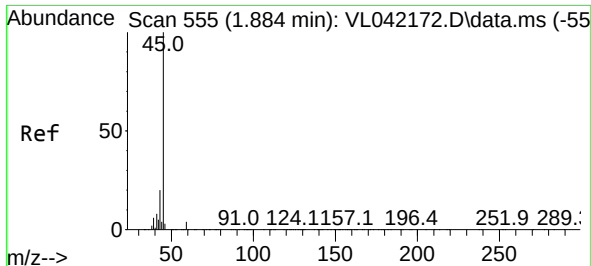
Tgt Ion: 59 Resp: 20558

Ion Ratio Lower Upper

59 100

57 10.4 8.9 13.3

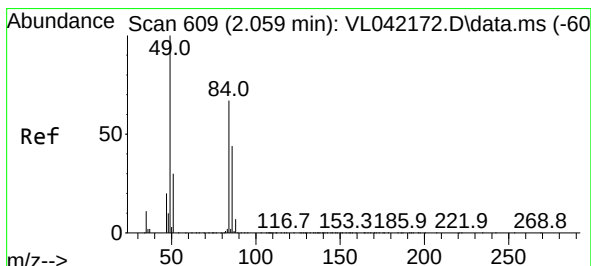
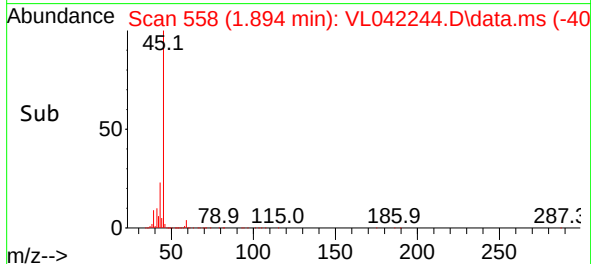
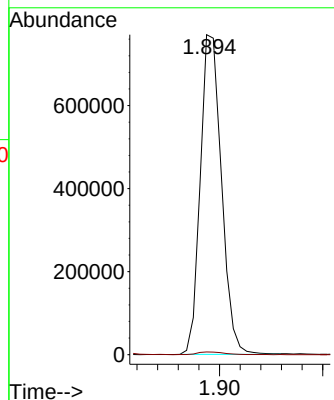
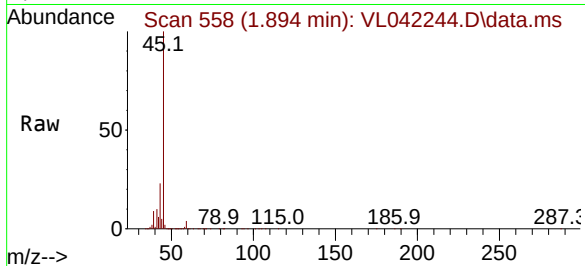




#19
Isopropyl Alcohol
Concen: 36.345 ppbv
RT: 1.894 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

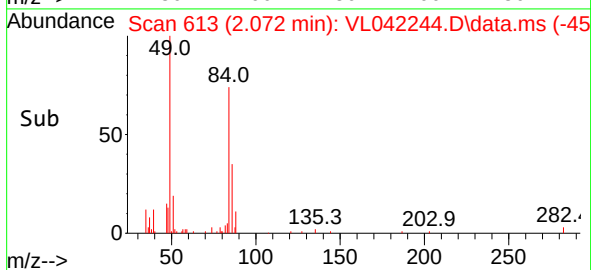
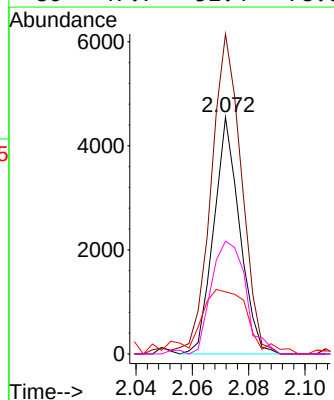
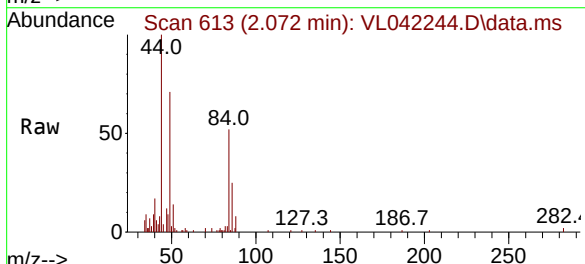
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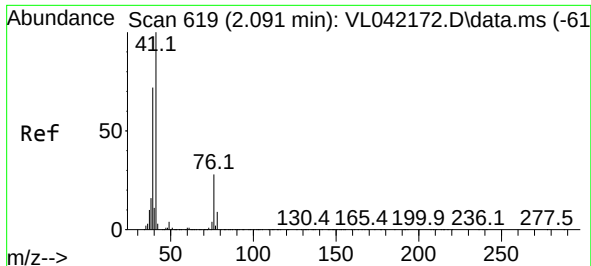
Tgt Ion: 45 Resp: 547602
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3#



#20
Methylene Chloride
Concen: 0.293 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 84 Resp: 2917
Ion Ratio Lower Upper
84 100
49 135.2 120.2 180.4
51 24.3 37.4 56.0#
86 47.7 52.4 78.6#

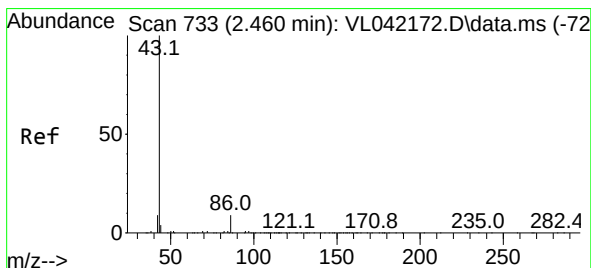
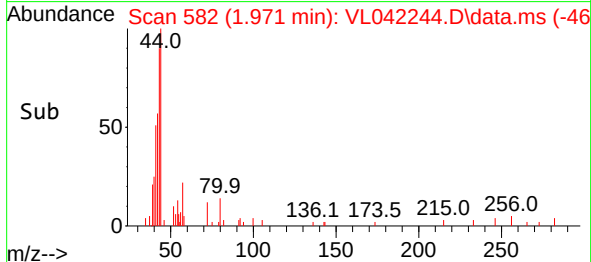
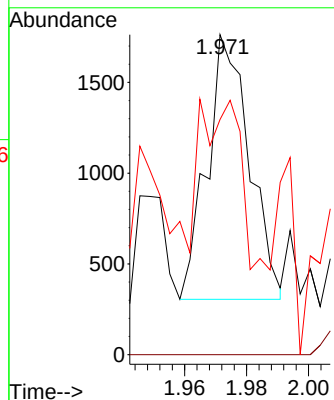
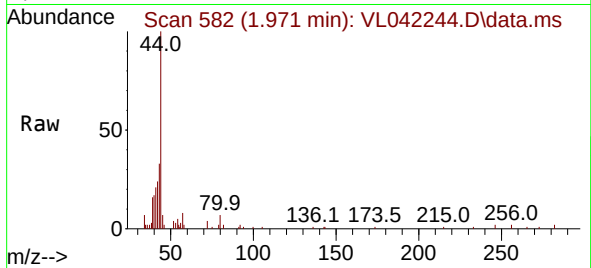




#21
 Allyl Chloride
 Concen: 0.073 ppbv
 RT: 1.971 min Scan# 51
 Delta R.T. -0.120 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

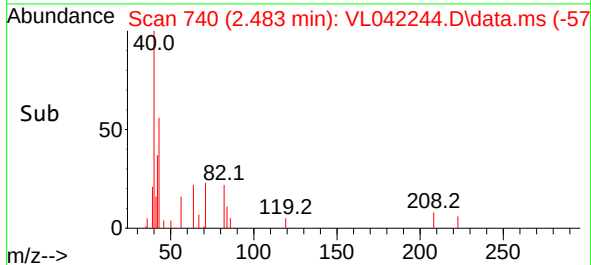
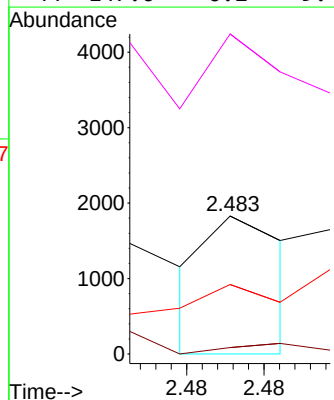
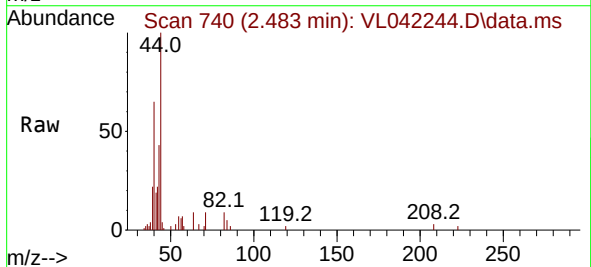
Instrument :
 MSVOA_1
 ClientSampleId :
 SSSG-DUP-2-04012025DL

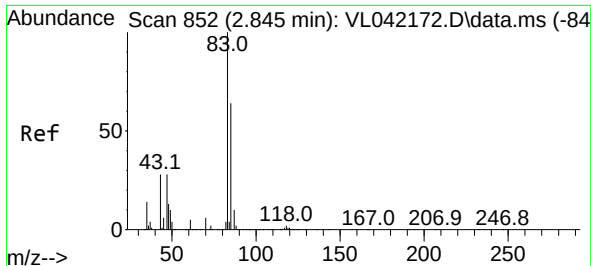
Tgt Ion: 41 Resp: 1379
 Ion Ratio Lower Upper
 41 100
 76 3.6 24.1 36.1#
 39 0.0 61.1 91.7#



#23
 Vinyl Acetate
 Concen: 0.056 ppbv
 RT: 2.483 min Scan# 740
 Delta R.T. 0.023 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

Tgt Ion: 43 Resp: 648
 Ion Ratio Lower Upper
 43 100
 86 12.6 5.5 8.3#
 42 46.7 8.6 13.0#
 44 147.6 6.2 9.4#





#29

Chloroform

Concen: 0.107 ppbv

RT: 2.865 min Scan# 81

Delta R.T. 0.019 min

Lab File: VL042244.D

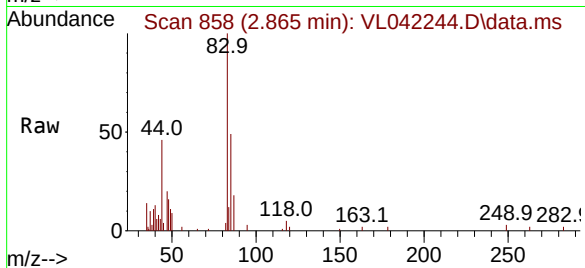
Acq: 07 Apr 2025 22:09

Instrument :

MSVOA_L

ClientSampleId :

SSSG-DUP-2-04012025DL

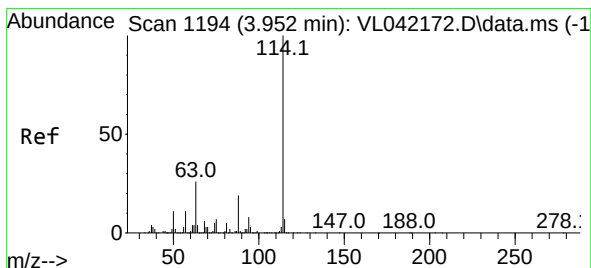
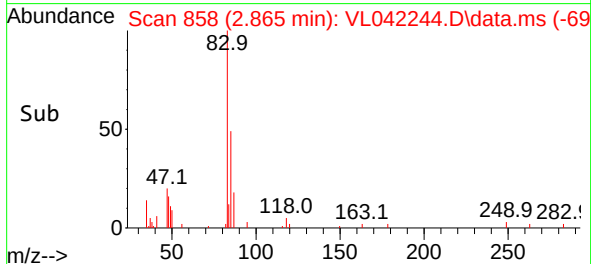
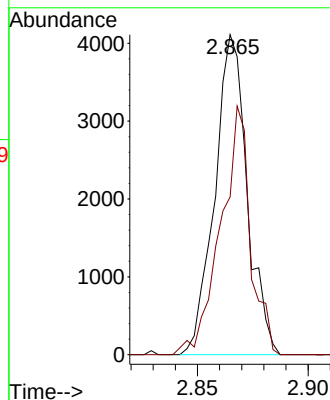


Tgt Ion: 83 Resp: 4185

Ion Ratio Lower Upper

83 100

85 49.3 51.4 77.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.985 min Scan# 1204

Delta R.T. 0.032 min

Lab File: VL042244.D

Acq: 07 Apr 2025 22:09

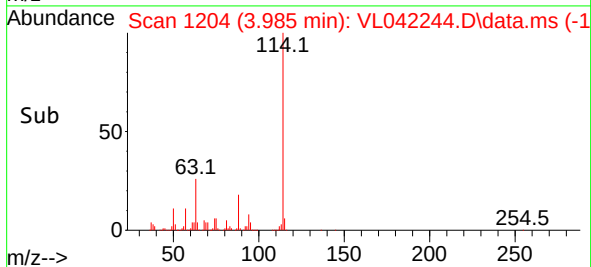
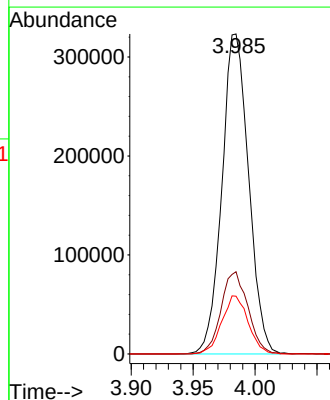
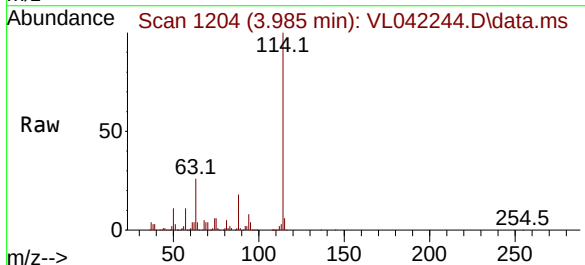
Tgt Ion: 114 Resp: 485801

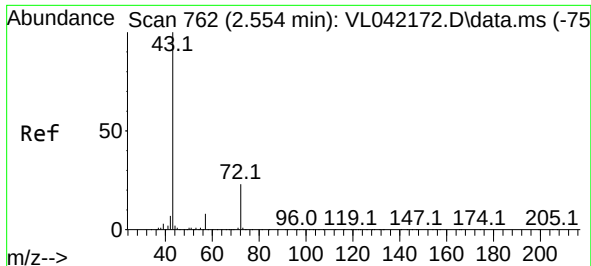
Ion Ratio Lower Upper

114 100

63 26.0 20.7 31.1

88 17.9 15.0 22.4

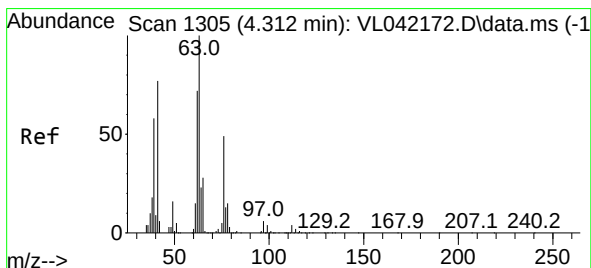
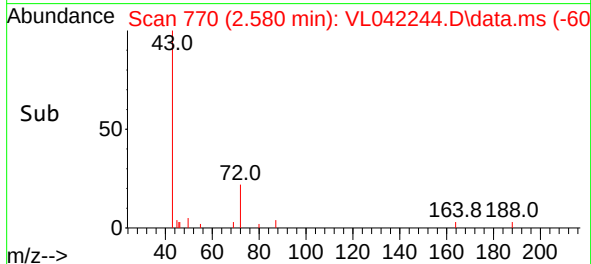
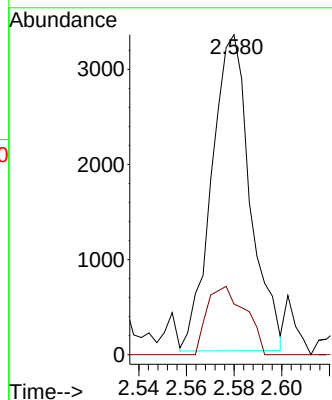
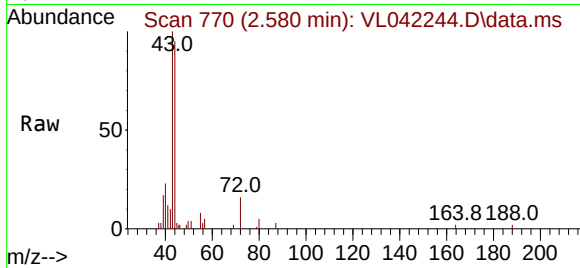




#34
2-Butanone
Concen: 0.106 ppbv
RT: 2.580 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

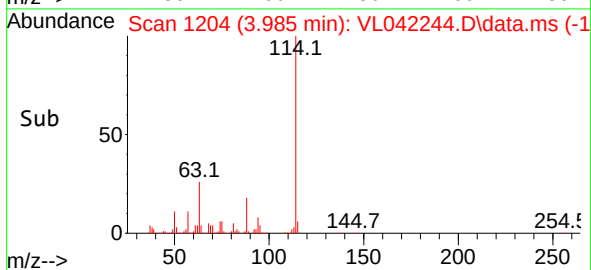
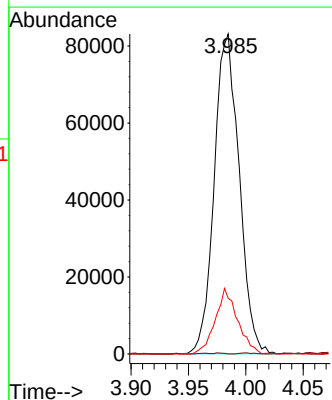
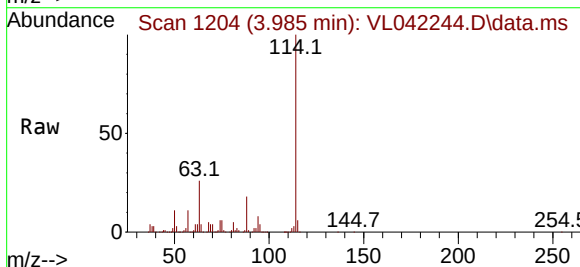
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

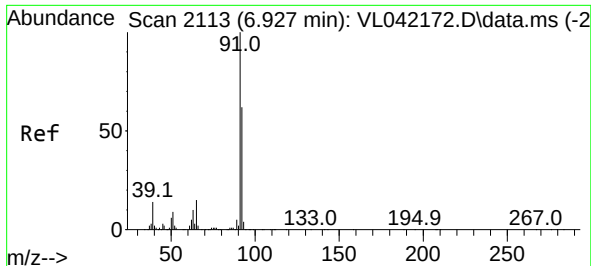
Tgt Ion: 43 Resp: 3751
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2



#39
1,2-Dichloropropane
Concen: 7.157 ppbv
RT: 3.985 min Scan# 1204
Delta R.T. -0.327 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 63 Resp: 125530
Ion Ratio Lower Upper
63 100
41 0.0 61.7 92.5#
62 17.4 57.6 86.4#

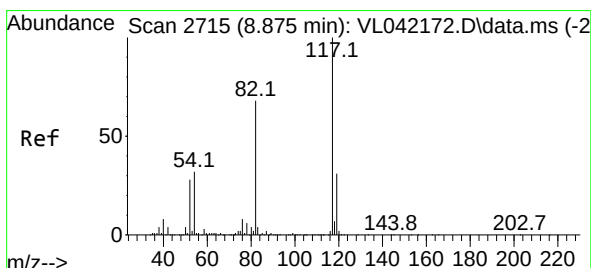
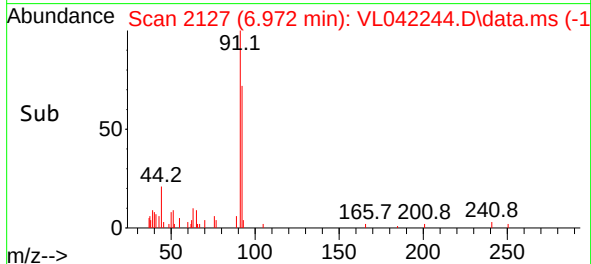
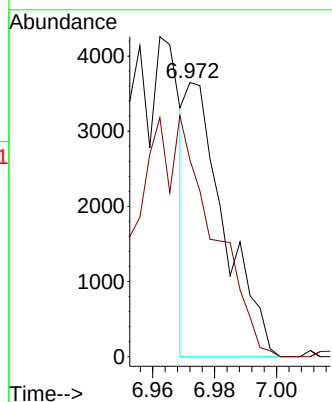
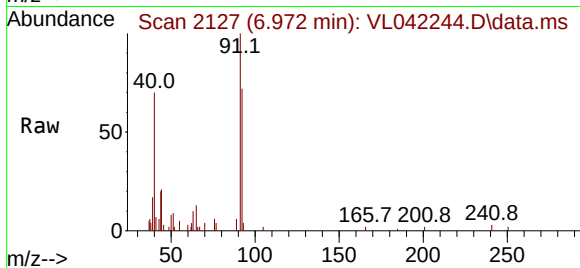




#53
Toluene
Concen: 0.055 ppbv
RT: 6.972 min Scan# 2113
Delta R.T. 0.045 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

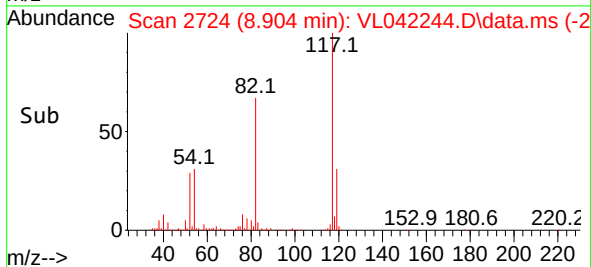
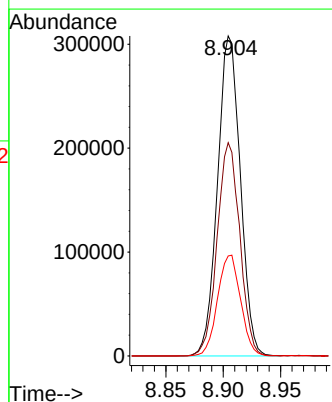
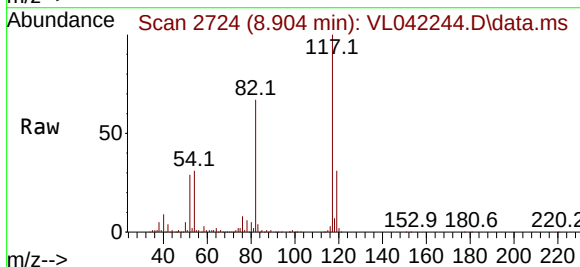
Instrument :
MSVOA_L
ClientSampleId :
SSSG-DUP-2-04012025DL

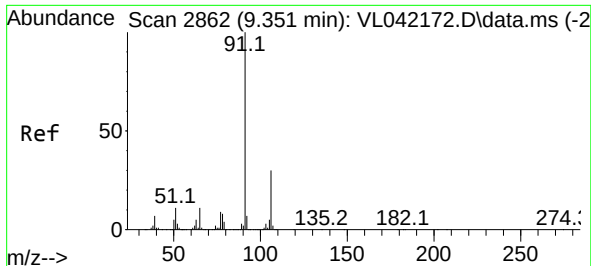
Tgt Ion: 91 Resp: 3122
Ion Ratio Lower Upper
91 100
92 189.7 48.4 72.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2724
Delta R.T. 0.029 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

Tgt Ion: 117 Resp: 425989
Ion Ratio Lower Upper
117 100
82 66.3 55.8 83.6
119 31.9 25.5 38.3





#58

Ethyl Benzene

Concen: 0.256 ppbv

RT: 9.374 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL042244.D

Acq: 07 Apr 2025 22:09

Instrument :

MSVOA_L

ClientSampleId :

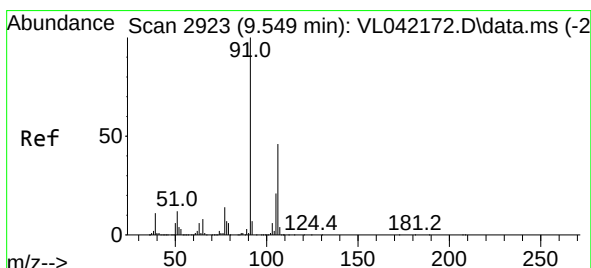
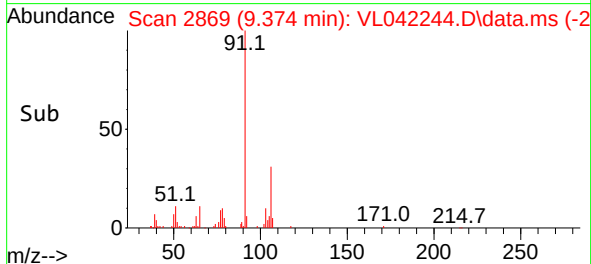
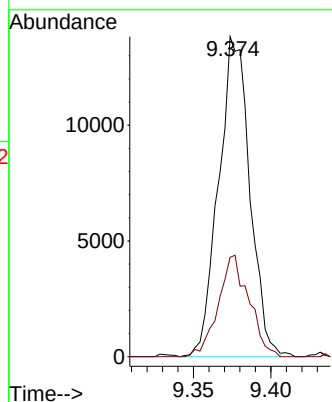
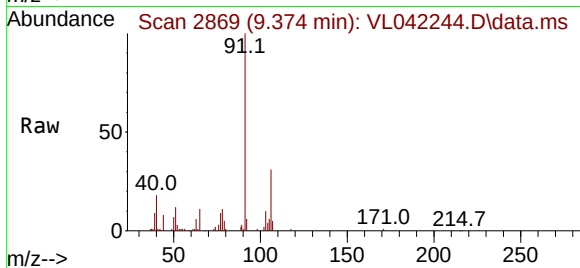
SSSG-DUP-2-04012025DL

Tgt Ion: 91 Resp: 19351

Ion Ratio Lower Upper

91 100

106 31.0 24.2 36.2



#59

m/p-Xylene

Concen: 1.047 ppbv

RT: 9.555 min Scan# 2925

Delta R.T. 0.006 min

Lab File: VL042244.D

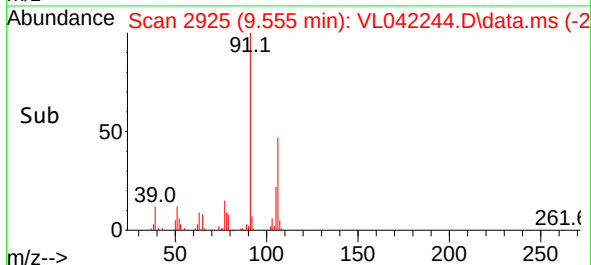
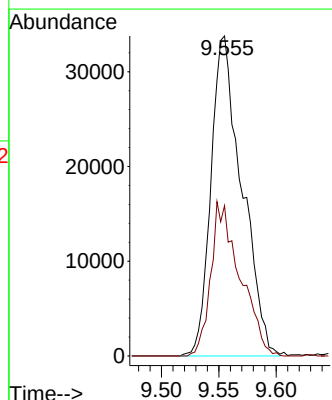
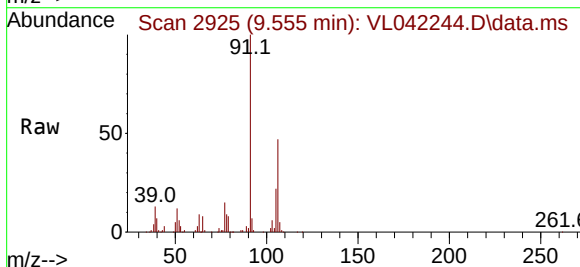
Acq: 07 Apr 2025 22:09

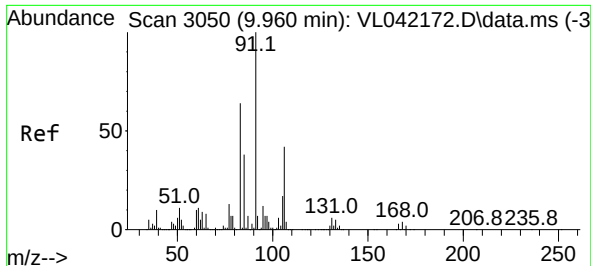
Tgt Ion: 91 Resp: 63265

Ion Ratio Lower Upper

91 100

106 45.6 36.4 54.6

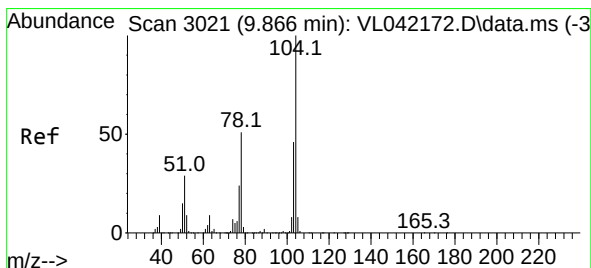
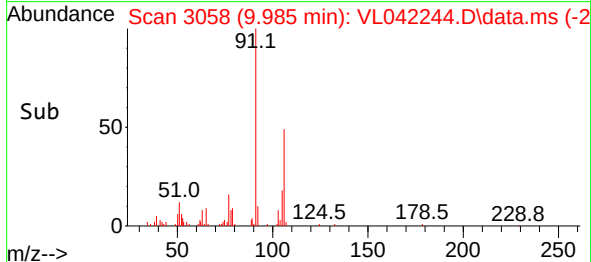
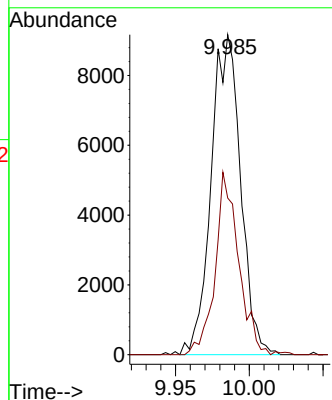
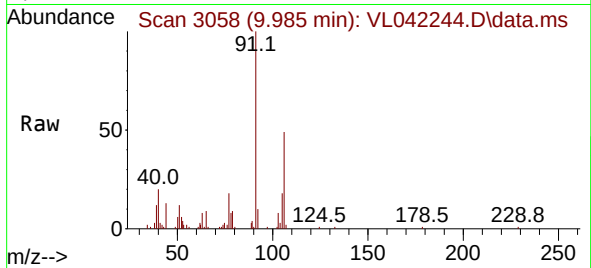




#60
o-Xylene
Concen: 0.210 ppbv
RT: 9.985 min Scan# 3058
Delta R.T. 0.026 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

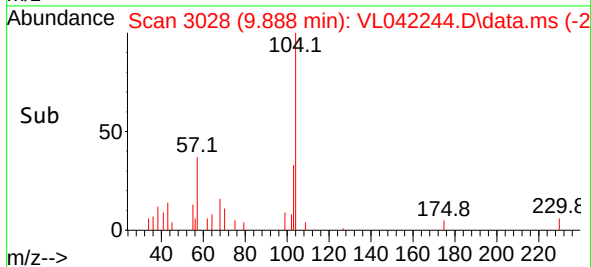
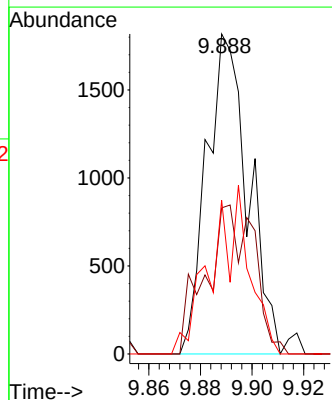
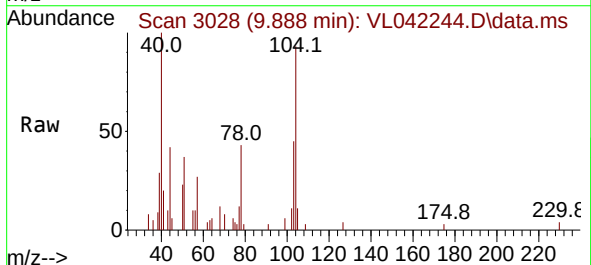
Instrument :
MSVOA_1
ClientSampleId :
SSSG-DUP-2-04012025DL

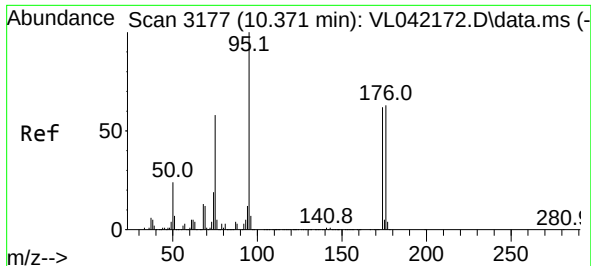
Tgt Ion: 91 Resp: 12718
Ion Ratio Lower Upper
91 100
106 45.7 20.8 62.5



#61
Styrene
Concen: 0.067 ppbv
RT: 9.888 min Scan# 3028
Delta R.T. 0.023 min
Lab File: VL042244.D
Acq: 07 Apr 2025 22:09

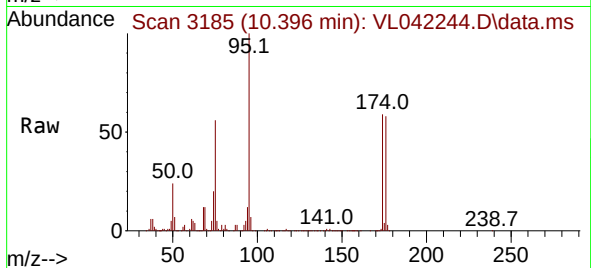
Tgt Ion: 104 Resp: 2020
Ion Ratio Lower Upper
104 100
78 54.8 41.8 62.6
103 47.4 37.0 55.4





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.890 ppbv
 RT: 10.396 min Scan# 31
 Delta R.T. 0.026 min
 Lab File: VL042244.D
 Acq: 07 Apr 2025 22:09

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-DUP-2-04012025DL



Tgt Ion: 95 Resp: 345971
 Ion Ratio Lower Upper
 95 100
 174 60.2 50.6 76.0
 175 4.4 3.8 5.6

