

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040825\
 Data File : VL042270.D
 Acq On : 08 Apr 2025 18:32
 Operator : SY/MD
 Sample : Q1728-05 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSSG-B2-6-04022025

Quant Time: Apr 09 01:59:10 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	154011	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	400286	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	369657	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	284411	9.369	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.470	51	3072	0.132	ppbv #	76
4) Chloromethane	1.538	50	725	0.078	ppbv	91
9) Propene	1.489	41	3740	0.351	ppbv #	15
10) Heptane	4.994	43	2991	0.106	ppbv #	52
13) Ethanol	1.725	45	11177	11.104	ppbv	82
15) Acetone	1.839	43	963854	44.749	ppbv	99
16) 1,3-Butadiene	1.606	39	15939	1.515	ppbv #	20
17) tert-Butyl alcohol	2.049	59	8016	0.299	ppbv	95
19) Isopropyl Alcohol	1.890	45	10956	0.902	ppbv #	30
20) Methylene Chloride	2.065	84	4978	0.621	ppbv #	89
21) Allyl Chloride	2.049	41	2610	0.172	ppbv #	1
23) Vinyl Acetate	2.479	43	6973	0.748	ppbv #	55
25) Ethyl Acetate	2.835	43	3549	0.063	ppbv #	86
26) Hexane	2.839	57	1421	0.066	ppbv #	1
27) Carbon Disulfide	2.156	76	10815	0.467	ppbv #	74
30) Cyclohexane	3.861	84	773	0.041	ppbv #	1
34) 2-Butanone	2.567	43	50434	1.738	ppbv	98
36) Benzene	3.674	78	1951	0.049	ppbv	98
39) 1,2-Dichloropropane	3.968	63	103158	7.138	ppbv #	22
41) Tetrahydrofuran	3.075	42	508	0.030	ppbv #	37
44) 2,2,4-Trimethylpentane	4.654	57	27995	0.417	ppbv #	78
51) 2-Hexanone	7.464	43	2880	0.076	ppbv #	98
53) Toluene	6.952	91	90177	1.917	ppbv	98
57) Chlorobenzene	8.933	112	1510	0.043	ppbv #	85
59) m/p-Xylene	9.561	91	3762	0.072	ppbv #	31
60) o-Xylene	9.972	91	6578	0.125	ppbv	98
61) Styrene	9.885	104	1169	0.045	ppbv #	81
71) 2-Chlorotoluene	10.911	91	79777	1.308	ppbv	100
74) 1,2,4-Trimethylbenzene	11.545	105	2809	0.043	ppbv #	76

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

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

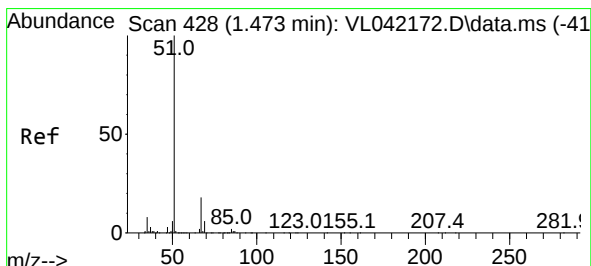
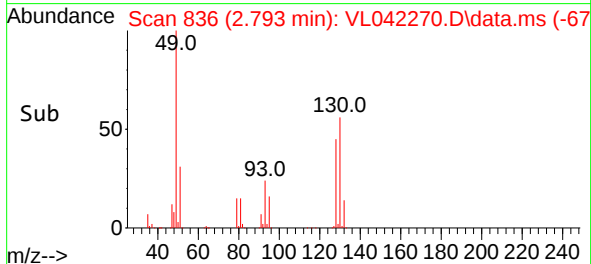
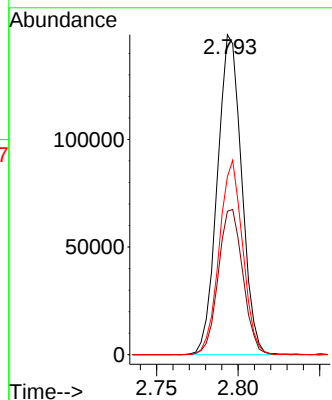
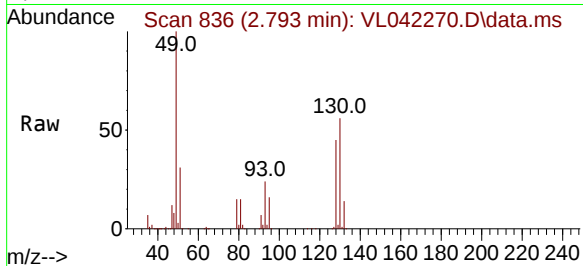




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

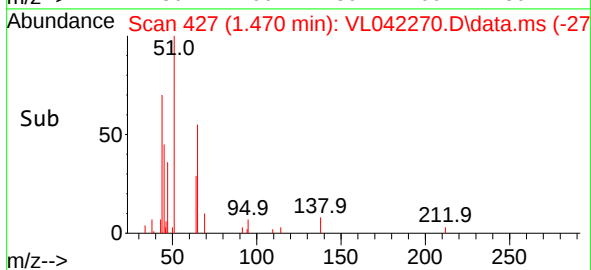
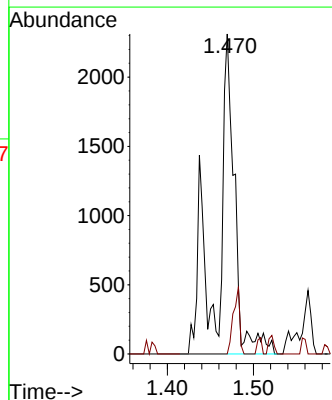
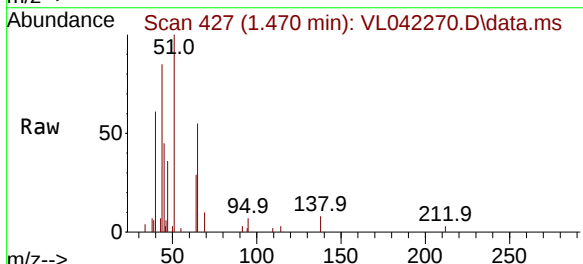
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

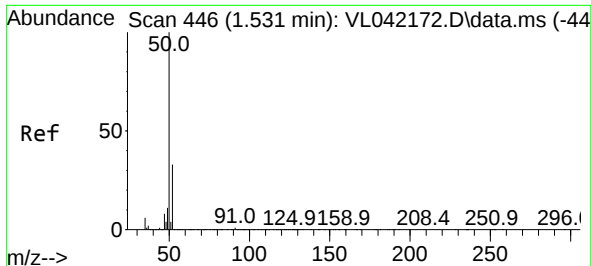
Tgt Ion: 49 Resp: 154011
Ion Ratio Lower Upper
49 100
128 46.0 22.9 68.5
130 58.7 28.8 86.4



#3
Chlorodifluoromethane
Concen: 0.132 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.004 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 51 Resp: 3072
Ion Ratio Lower Upper
51 100
67 8.0 15.0 22.6#

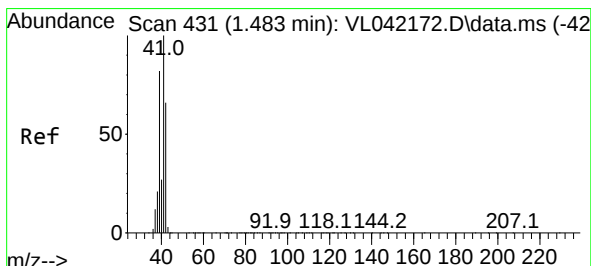
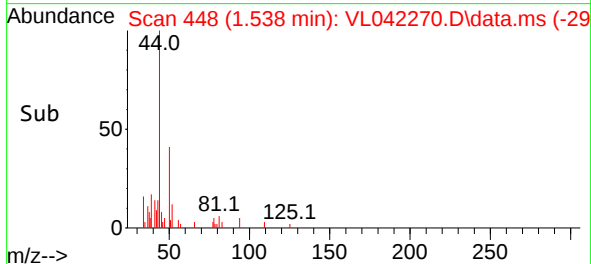
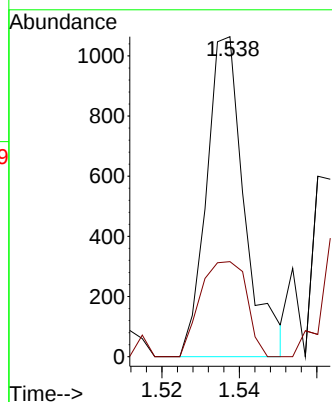
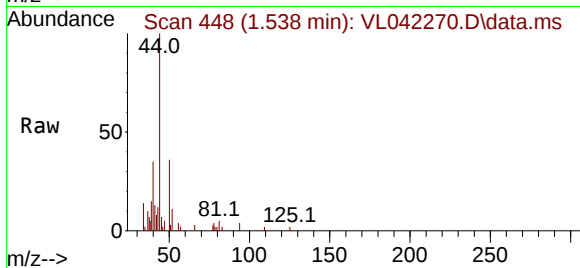




#4
Chloromethane
Concen: 0.078 ppbv
RT: 1.538 min Scan# 446
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

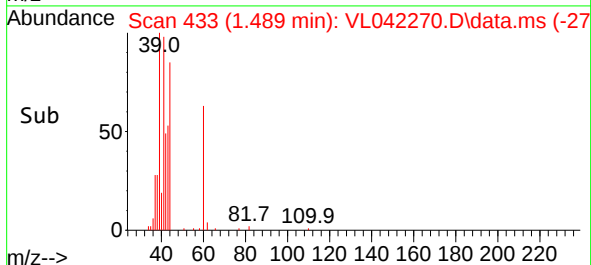
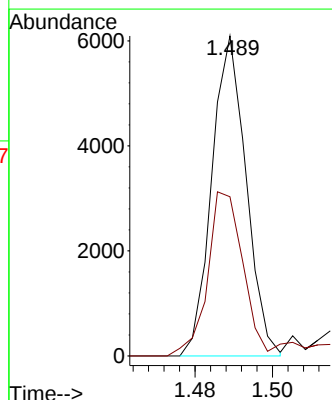
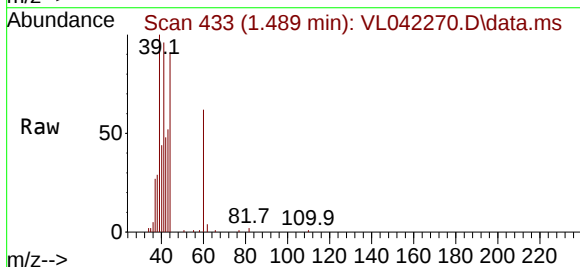
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

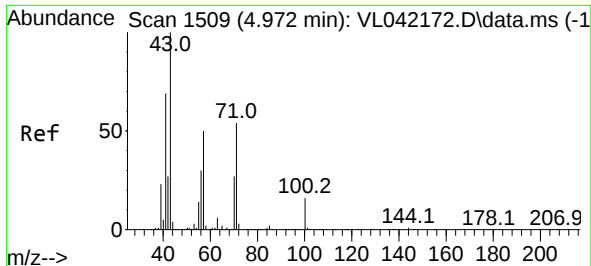
Tgt Ion: 50 Resp: 725
Ion Ratio Lower Upper
50 100
52 27.3 26.1 39.1



#9
Propene
Concen: 0.351 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 41 Resp: 3740
Ion Ratio Lower Upper
41 100
42 0.0 55.4 83.2#

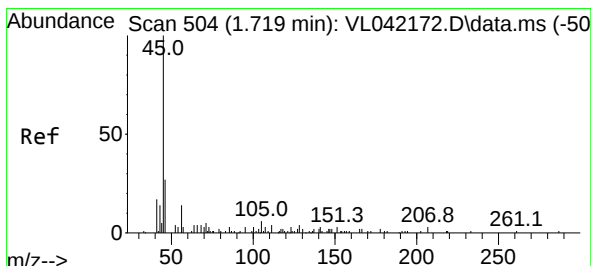
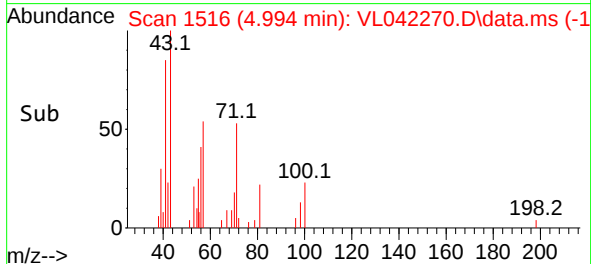
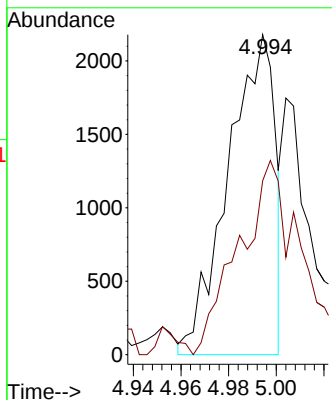
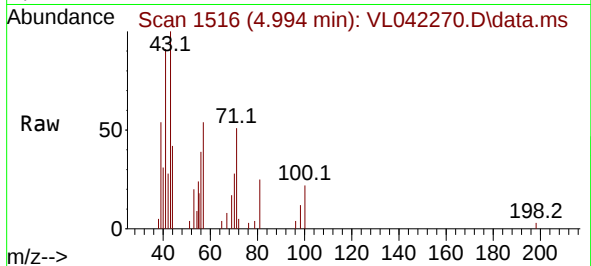




#10
Heptane
Concen: 0.106 ppbv
RT: 4.994 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

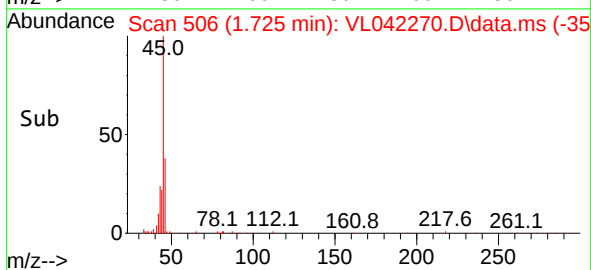
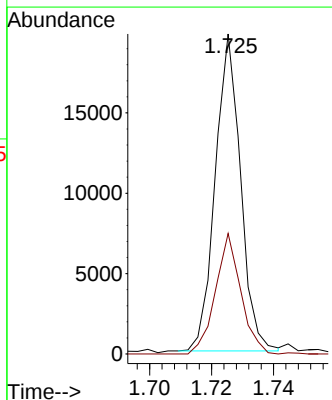
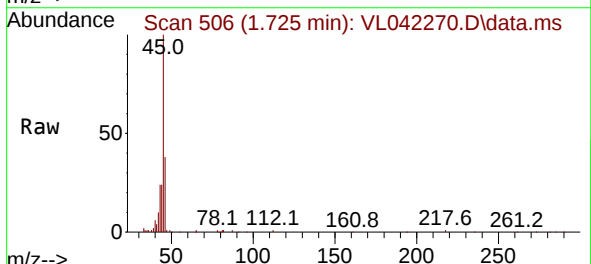
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

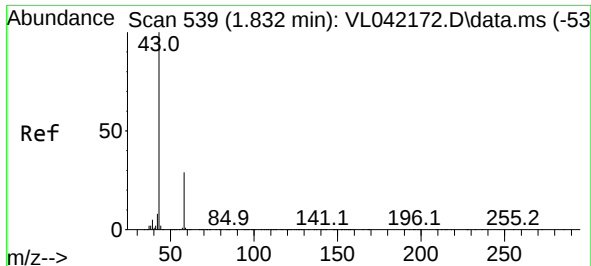
Tgt Ion: 43 Resp: 2991
Ion Ratio Lower Upper
43 100
57 81.8 39.4 59.2#



#13
Ethanol
Concen: 11.104 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 45 Resp: 11177
Ion Ratio Lower Upper
45 100
46 38.3 20.2 80.8





#15

Acetone

Concen: 44.749 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL042270.D

Acq: 08 Apr 2025 18:32

Instrument :

MSVOA_L

ClientSampleId :

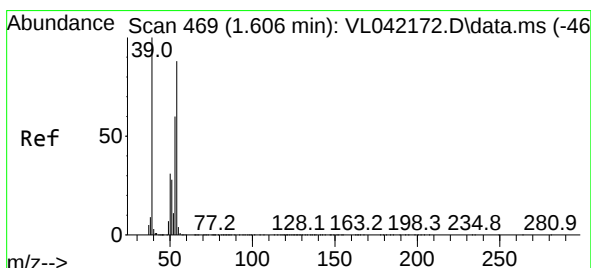
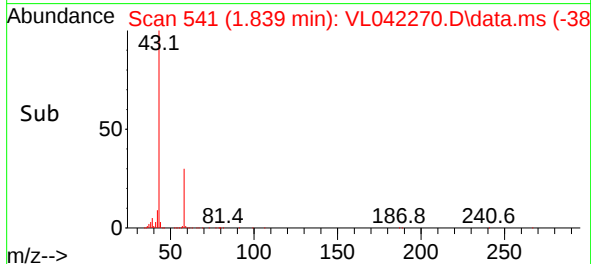
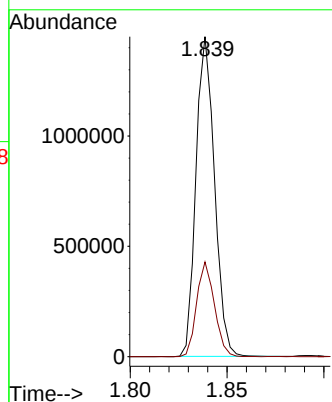
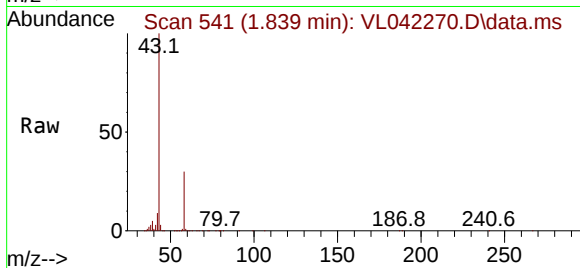
SSSG-B2-6-04022025

Tgt Ion: 43 Resp: 963854

Ion Ratio Lower Upper

43 100

58 28.5 23.2 34.8



#16

1,3-Butadiene

Concen: 1.515 ppbv

RT: 1.606 min Scan# 469

Delta R.T. -0.000 min

Lab File: VL042270.D

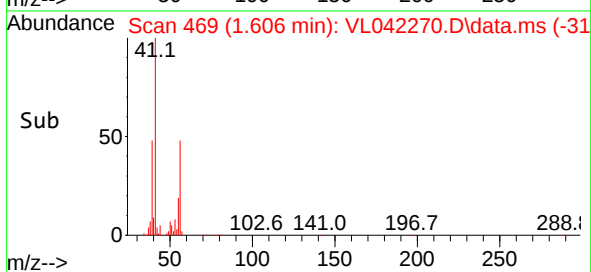
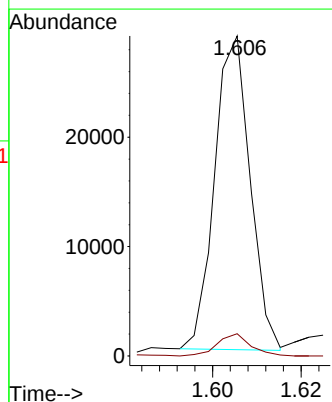
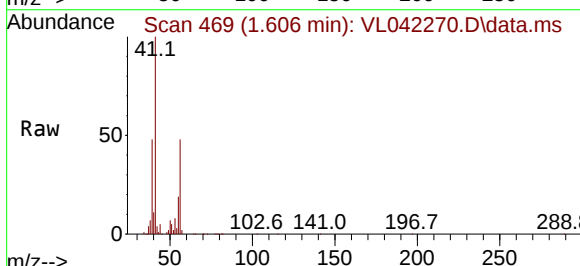
Acq: 08 Apr 2025 18:32

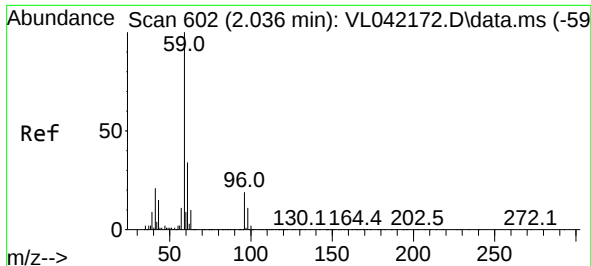
Tgt Ion: 39 Resp: 15939

Ion Ratio Lower Upper

39 100

54 7.5 60.7 91.1#





#17

tert-Butyl alcohol

Concen: 0.299 ppbv

RT: 2.049 min Scan# 602

Delta R.T. 0.013 min

Lab File: VL042270.D

Acq: 08 Apr 2025 18:32

Instrument :

MSVOA_L

ClientSampleId :

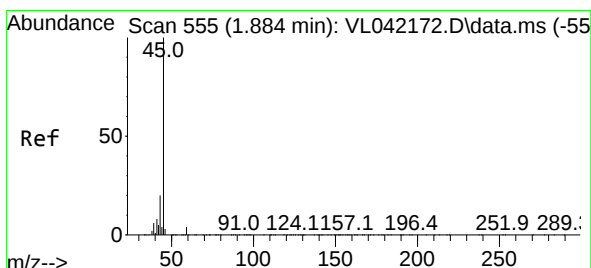
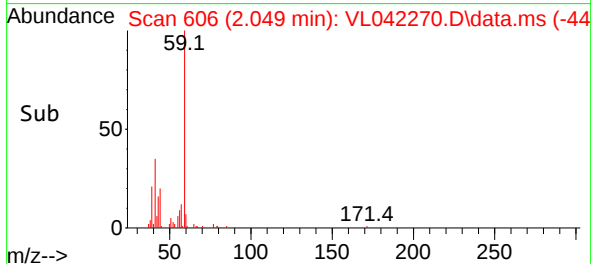
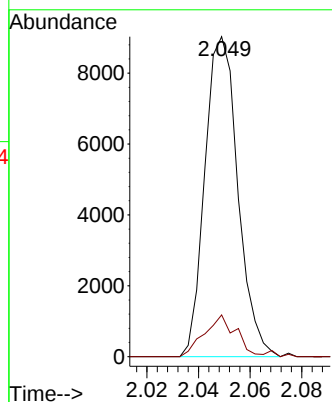
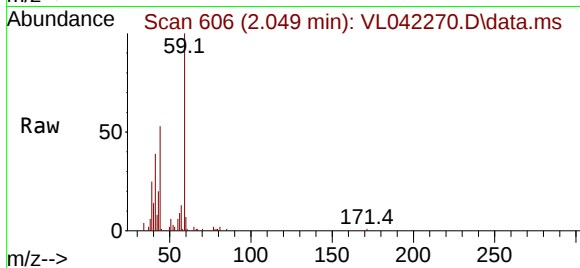
SSSG-B2-6-04022025

Tgt Ion: 59 Resp: 8016

Ion Ratio Lower Upper

59 100

57 13.1 8.9 13.3



#19

Isopropyl Alcohol

Concen: 0.902 ppbv

RT: 1.890 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042270.D

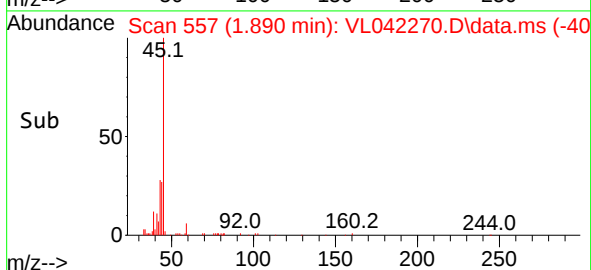
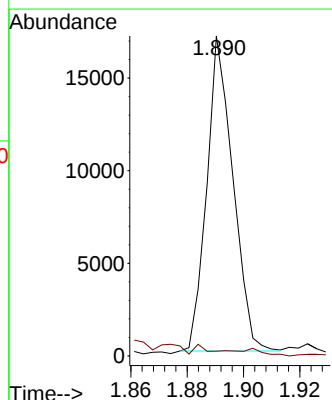
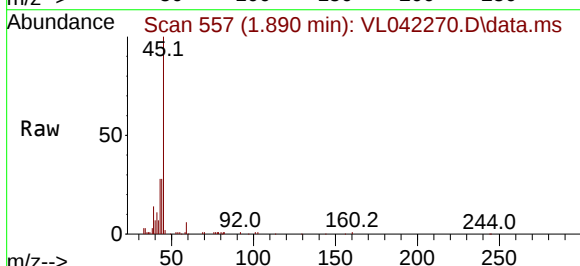
Acq: 08 Apr 2025 18:32

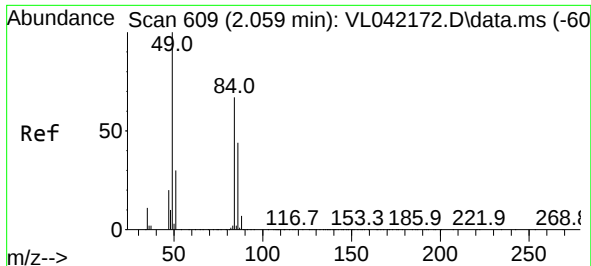
Tgt Ion: 45 Resp: 10956

Ion Ratio Lower Upper

45 100

58 0.0 36.9 55.3#

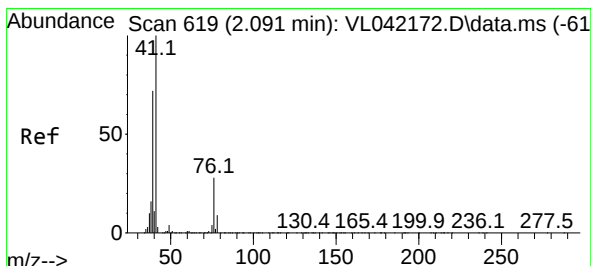
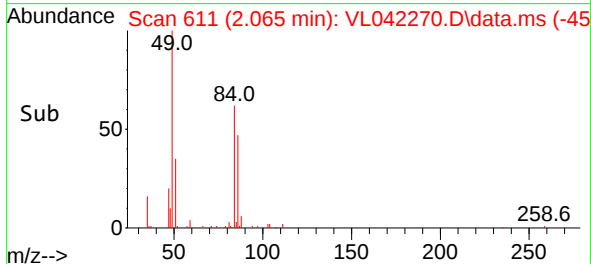
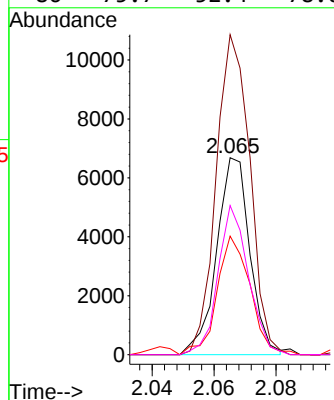
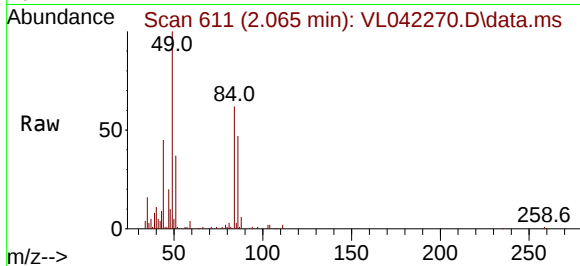




#20
Methylene Chloride
Concen: 0.621 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

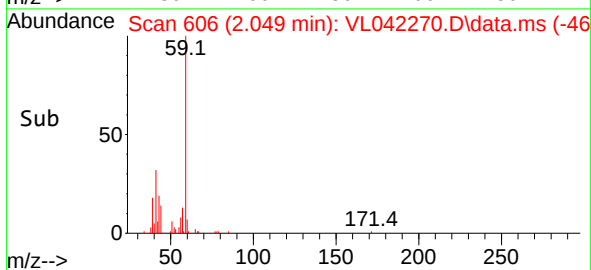
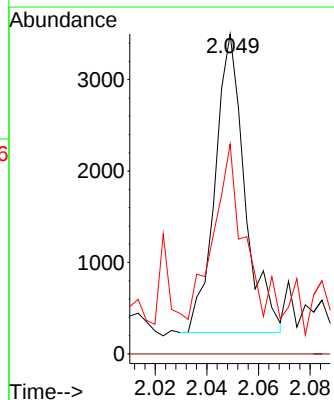
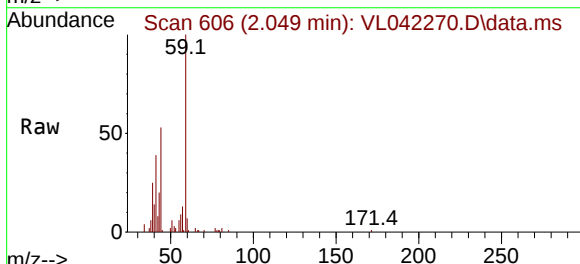
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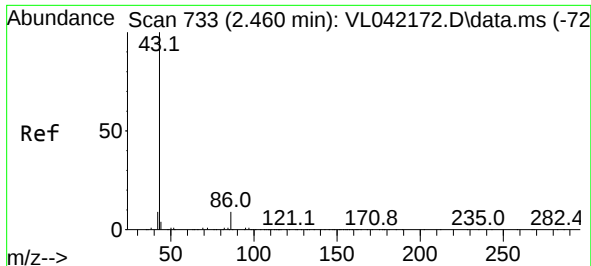
Tgt Ion:	84	Resp:	4978
Ion	Ratio	Lower	Upper
84	100		
49	159.6	120.2	180.4
51	60.2	37.4	56.0#
86	75.7	52.4	78.6



#21
Allyl Chloride
Concen: 0.172 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.042 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion:	41	Resp:	2610
Ion	Ratio	Lower	Upper
41	100		
76	416.8	24.1	36.1#
39	95.8	61.1	91.7#

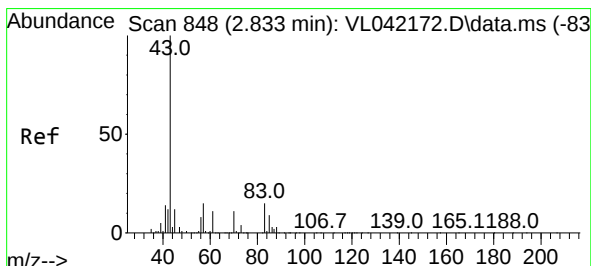
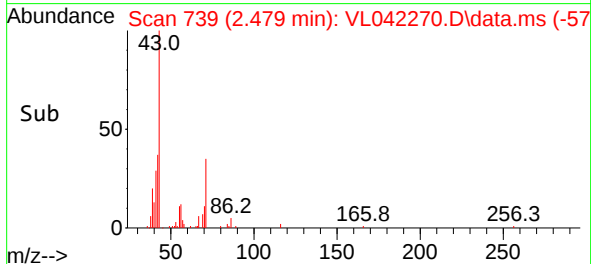
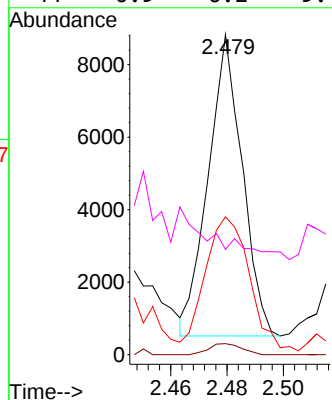
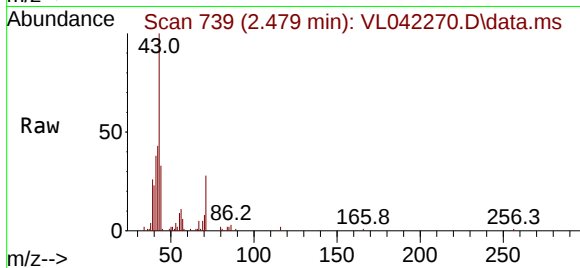




#23
Vinyl Acetate
Concen: 0.748 ppbv
RT: 2.479 min Scan# 739
Delta R.T. 0.019 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

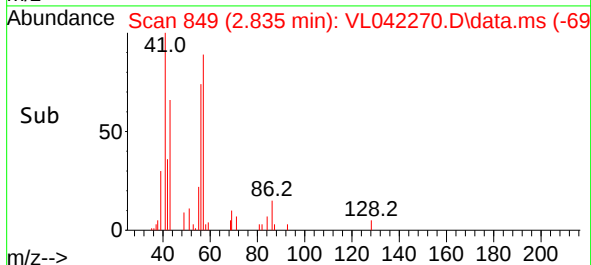
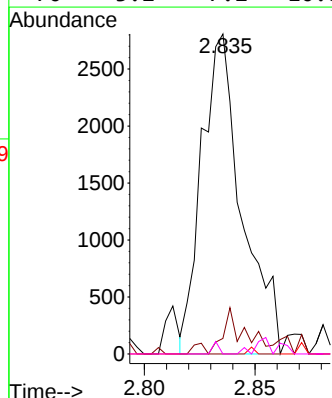
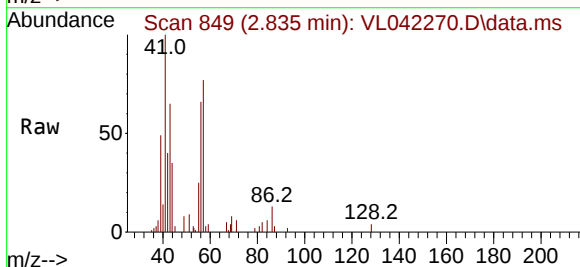
Instrument :
MSVOA_L
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SSSG-B2-6-04022025

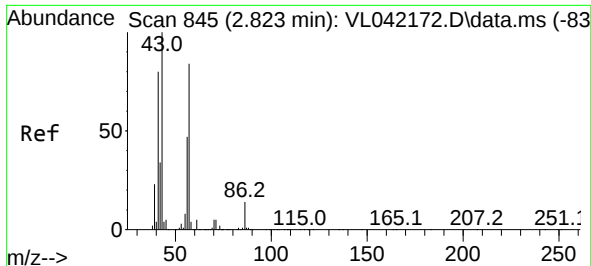
Tgt Ion:	43	Resp:	6973
Ion	Ratio	Lower	Upper
43	100		
86	3.7	5.5	8.3#
42	43.5	8.6	13.0#
44	0.9	6.2	9.4#



#25
Ethyl Acetate
Concen: 0.063 ppbv
RT: 2.835 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion:	43	Resp:	3549
Ion	Ratio	Lower	Upper
43	100		
45	11.3	8.2	12.2
61	0.0	7.3	10.9#
70	3.2	7.2	10.8#

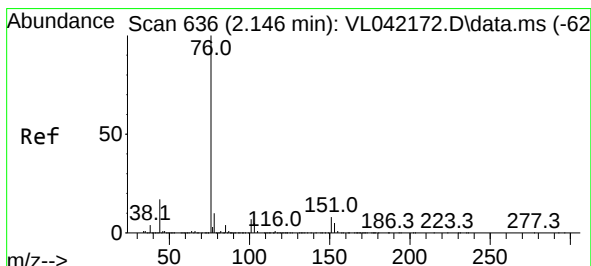
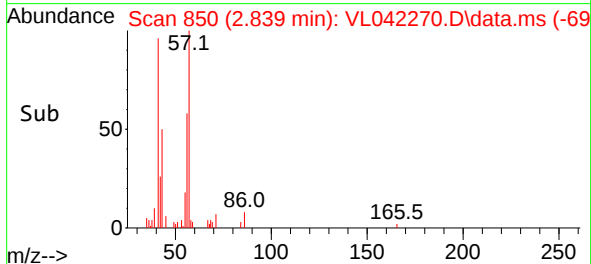
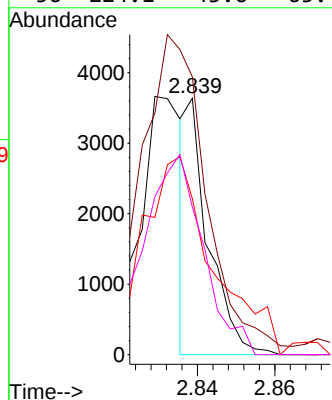
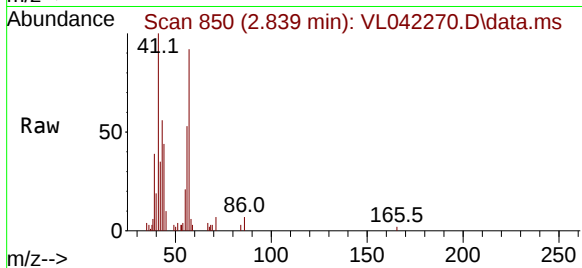




#26
Hexane
Concen: 0.066 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

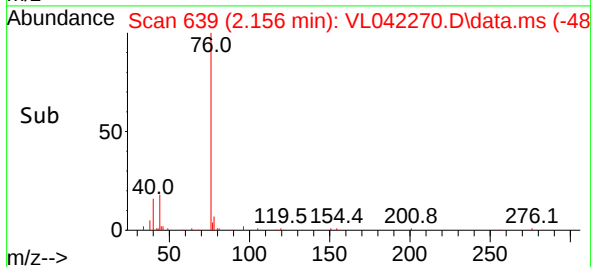
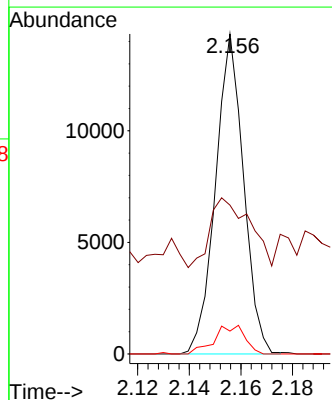
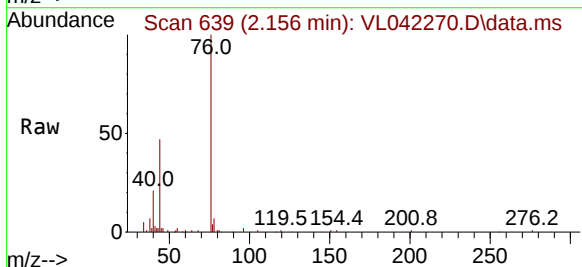
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

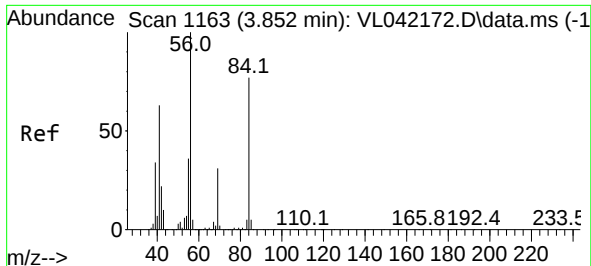
Tgt Ion: 57 Resp: 1421
Ion Ratio Lower Upper
57 100
41 401.4 76.6 114.8#
43 268.4 207.8 311.8
56 224.1 43.6 65.4#



#27
Carbon Disulfide
Concen: 0.467 ppbv
RT: 2.156 min Scan# 639
Delta R.T. 0.009 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 76 Resp: 10815
Ion Ratio Lower Upper
76 100
44 35.7 14.7 22.1#
78 9.8 9.3 13.9

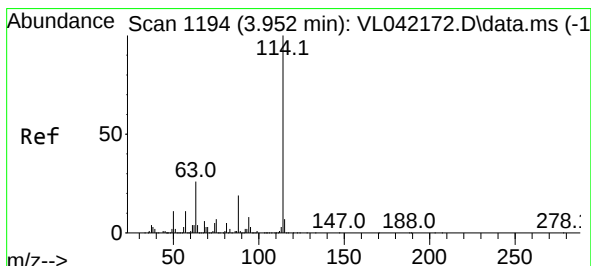
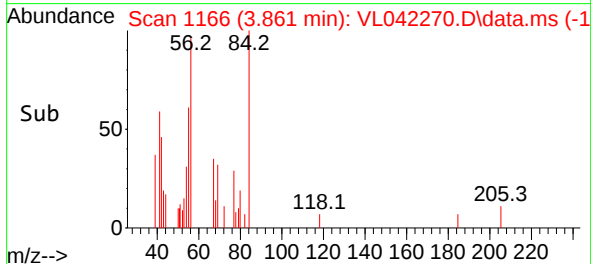
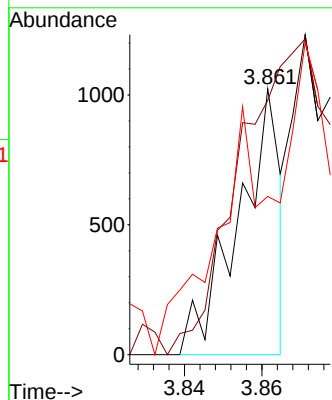
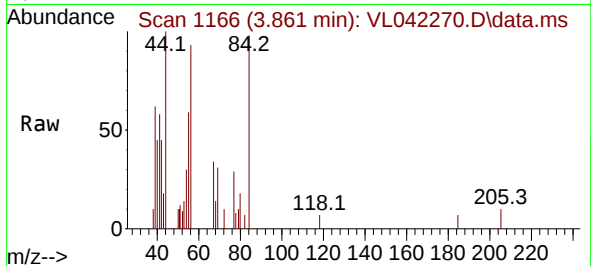




#30
Cyclohexane
Concen: 0.041 ppbv
RT: 3.861 min Scan# 1163
Delta R.T. 0.009 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

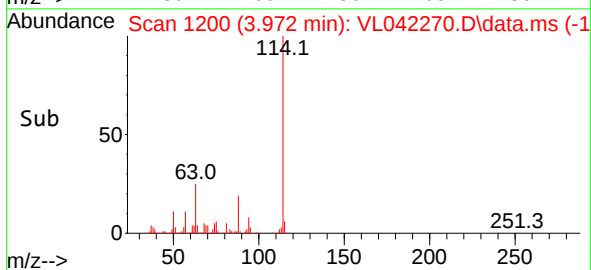
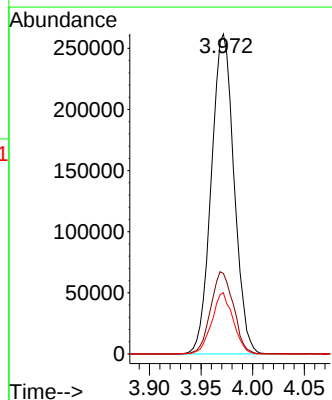
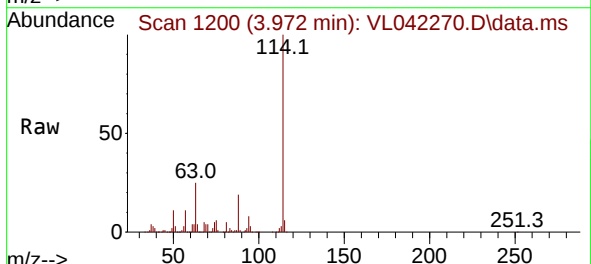
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

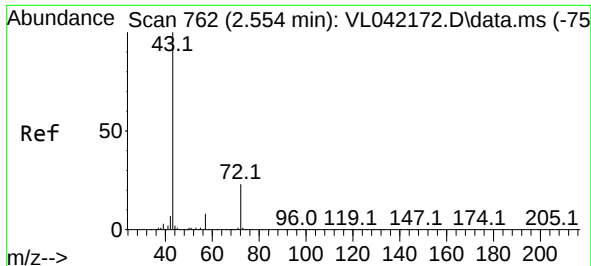
Tgt Ion: 84 Resp: 773
Ion Ratio Lower Upper
84 100
56 0.0 102.8 154.2#
41 0.0 66.5 99.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.019 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 114 Resp: 400286
Ion Ratio Lower Upper
114 100
63 25.8 20.7 31.1
88 18.0 15.0 22.4

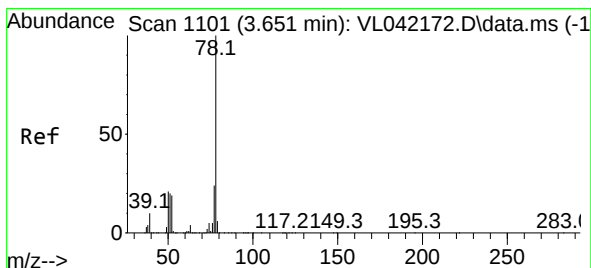
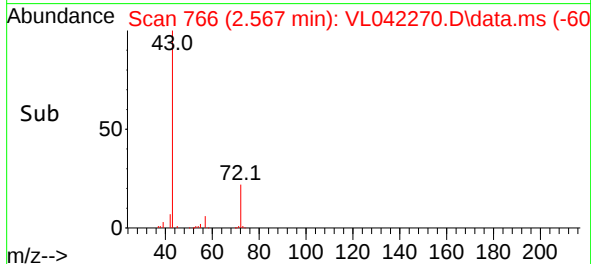
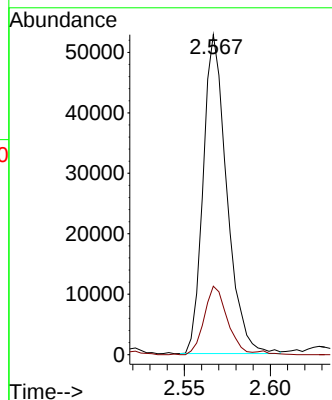
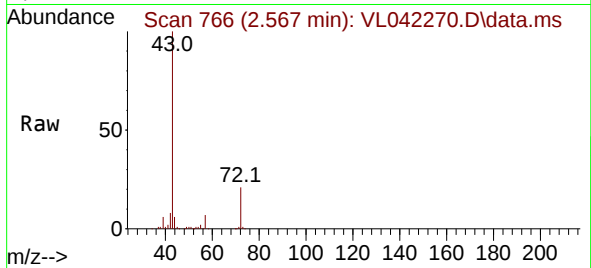




#34
2-Butanone
Concen: 1.738 ppbv
RT: 2.567 min Scan# 70
Delta R.T. 0.013 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

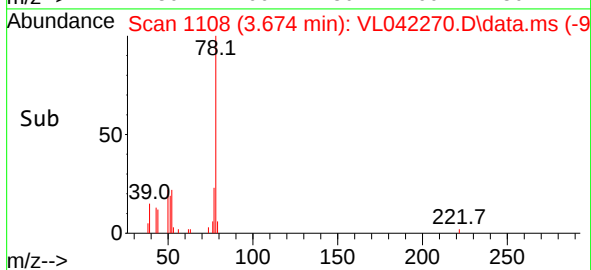
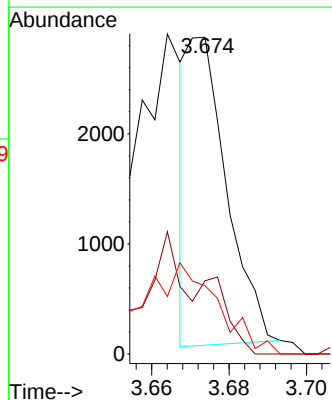
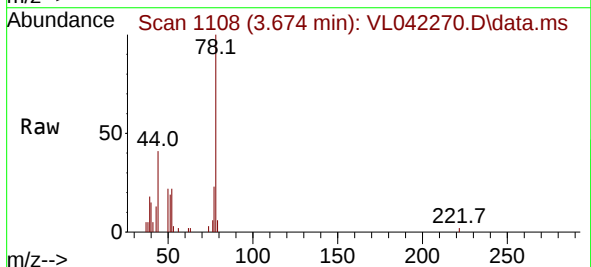
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

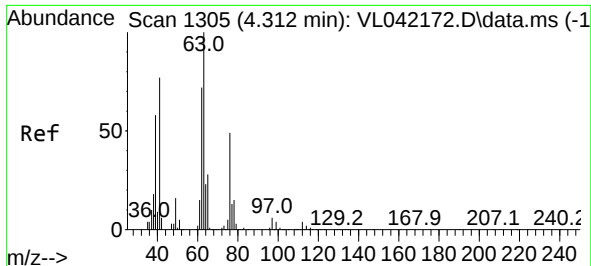
Tgt Ion: 43 Resp: 50434
Ion Ratio Lower Upper
43 100
72 21.6 18.2 27.2



#36
Benzene
Concen: 0.049 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.022 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 78 Resp: 1951
Ion Ratio Lower Upper
78 100
77 24.1 19.1 28.7
50 22.5 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.138 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.343 min

Lab File: VL042270.D

Acq: 08 Apr 2025 18:32

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-6-04022025

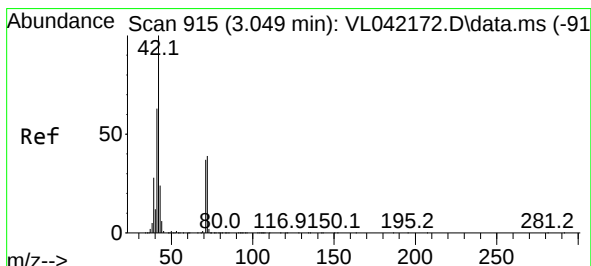
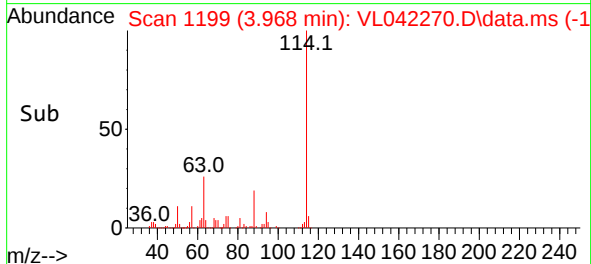
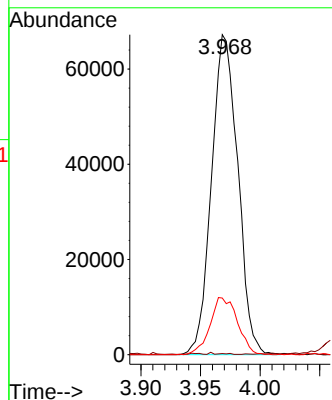
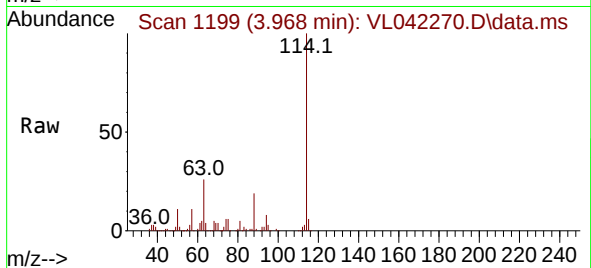
Tgt Ion: 63 Resp: 103158

Ion Ratio Lower Upper

63 100

41 0.2 61.7 92.5#

62 17.6 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.030 ppbv

RT: 3.075 min Scan# 923

Delta R.T. 0.026 min

Lab File: VL042270.D

Acq: 08 Apr 2025 18:32

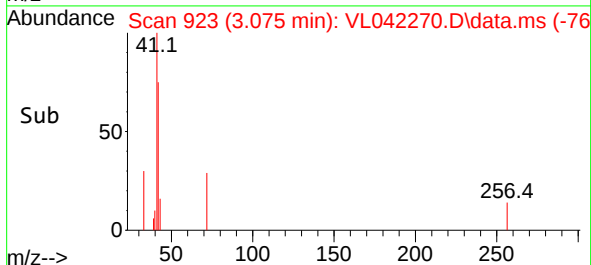
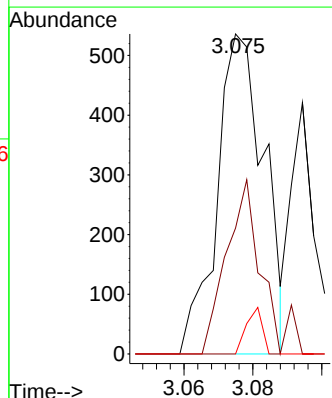
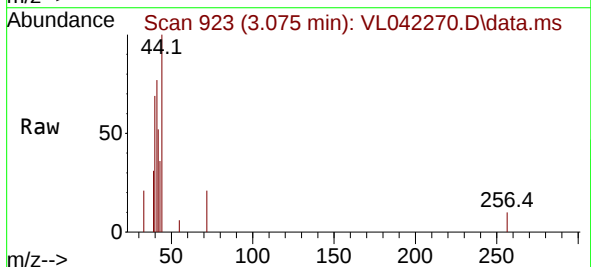
Tgt Ion: 42 Resp: 508

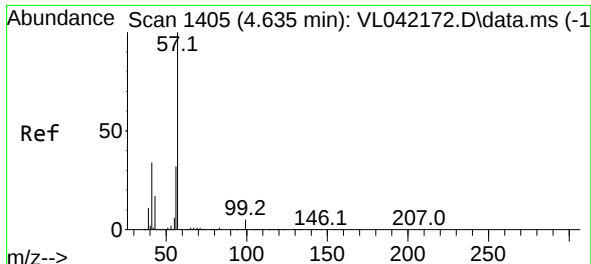
Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 30.2 45.4#

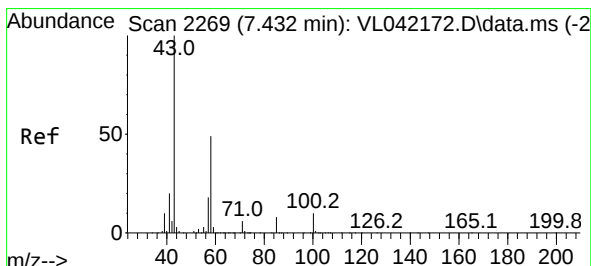
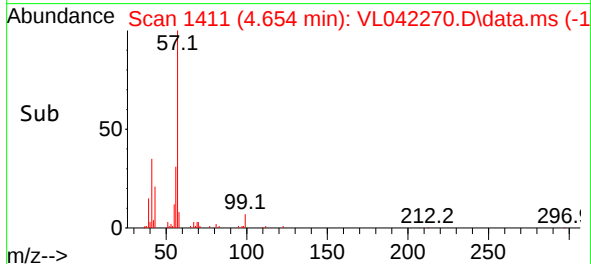
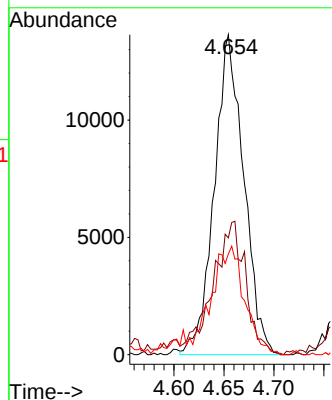
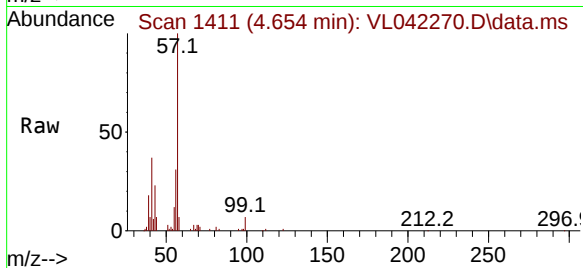




#44
2,2,4-Trimethylpentane
Concen: 0.417 ppbv
RT: 4.654 min Scan# 1405
Delta R.T. 0.019 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

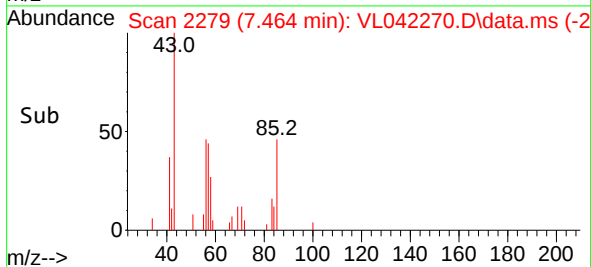
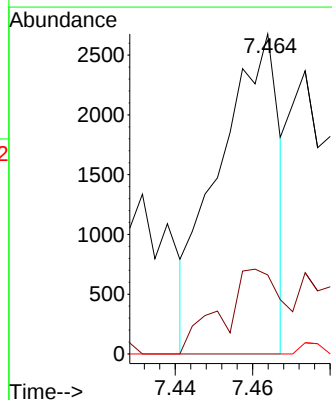
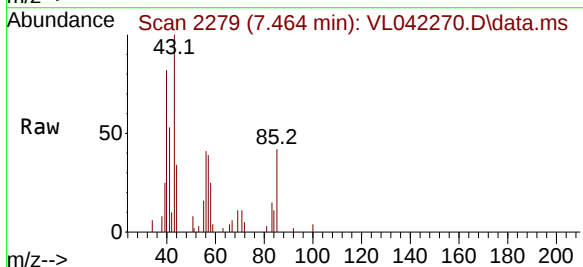
Instrument : MSVOA_L
ClientSampleId : SSSG-B2-6-04022025

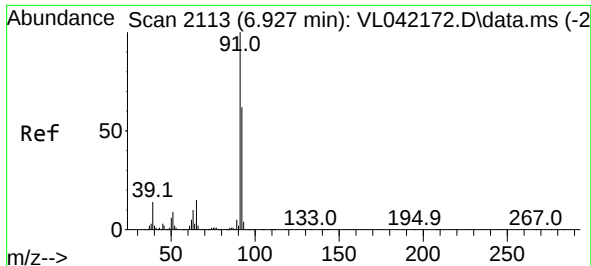
Tgt Ion: 57 Resp: 27995
Ion Ratio Lower Upper
57 100
41 48.5 26.8 40.2#
56 42.0 25.6 38.4#



#51
2-Hexanone
Concen: 0.076 ppbv
RT: 7.464 min Scan# 2279
Delta R.T. 0.032 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 43 Resp: 2880
Ion Ratio Lower Upper
43 100
58 50.8 39.7 59.5
98 0.0 0.1 0.1#

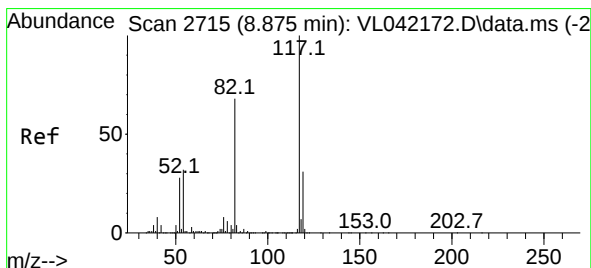
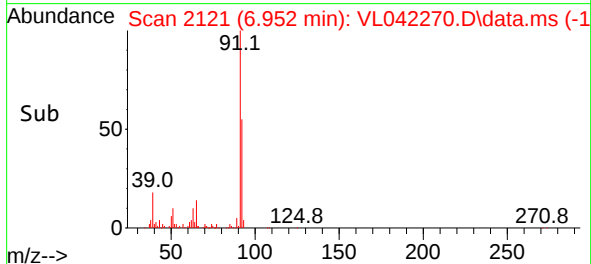
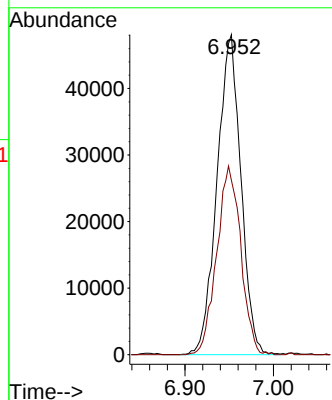
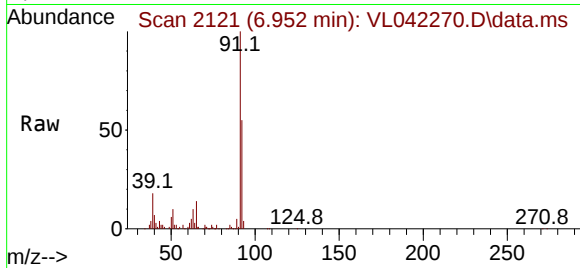




#53
Toluene
Concen: 1.917 ppbv
RT: 6.952 min Scan# 2113
Delta R.T. 0.026 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

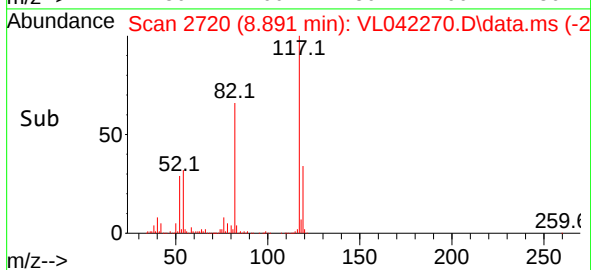
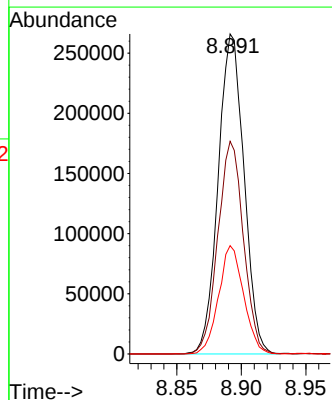
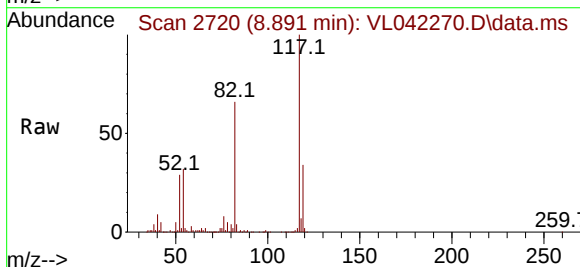
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

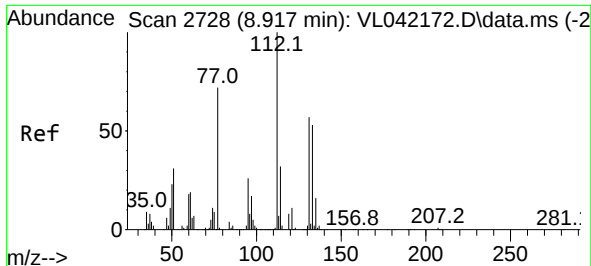
Tgt Ion: 91 Resp: 90177
Ion Ratio Lower Upper
91 100
92 59.3 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.016 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 117 Resp: 369657
Ion Ratio Lower Upper
117 100
82 65.8 55.8 83.6
119 32.8 25.5 38.3





#57

Chlorobenzene

Concen: 0.043 ppbv

RT: 8.933 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL042270.D

Acq: 08 Apr 2025 18:32

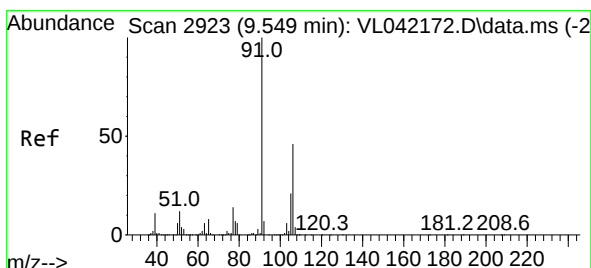
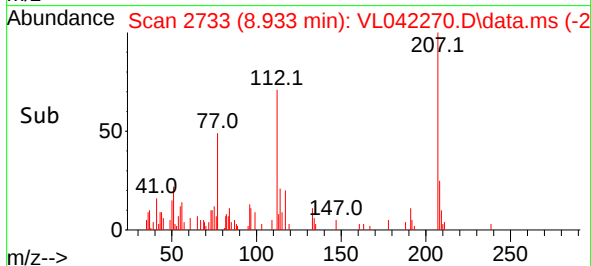
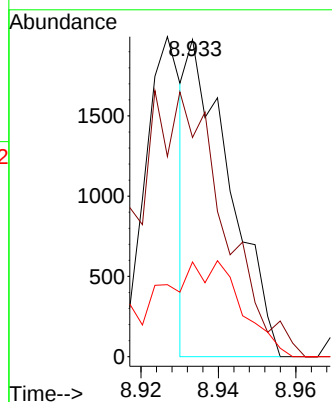
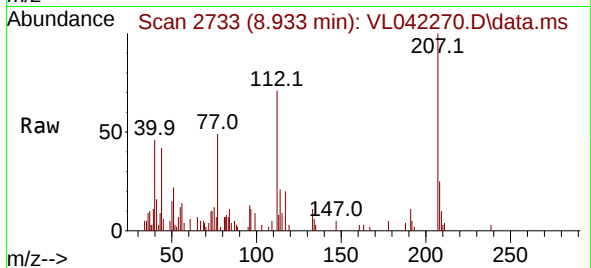
Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-6-04022025

Tgt Ion:	112	Resp:	1510
Ion	Ratio	Lower	Upper
112	100		
77	57.9	58.2	87.2#
114	27.2	29.1	35.5#



#59

m/p-Xylene

Concen: 0.072 ppbv

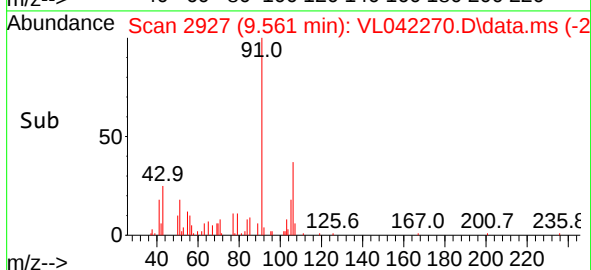
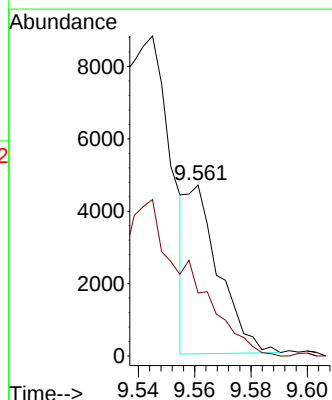
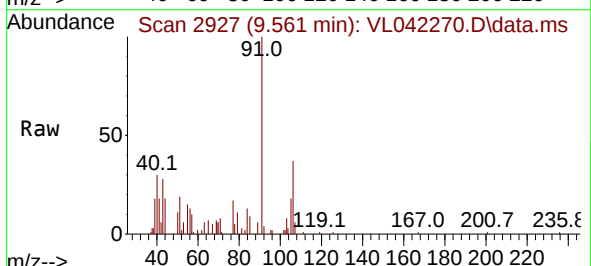
RT: 9.561 min Scan# 2927

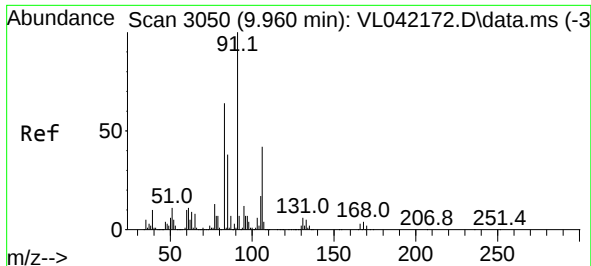
Delta R.T. 0.013 min

Lab File: VL042270.D

Acq: 08 Apr 2025 18:32

Tgt Ion:	91	Resp:	3762
Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.4	54.6#

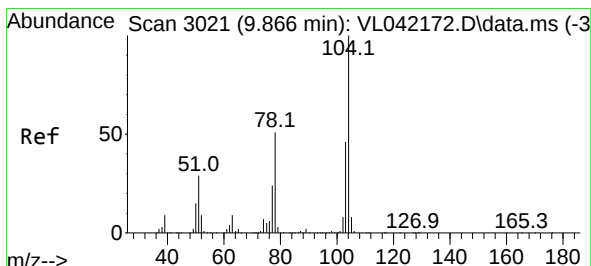
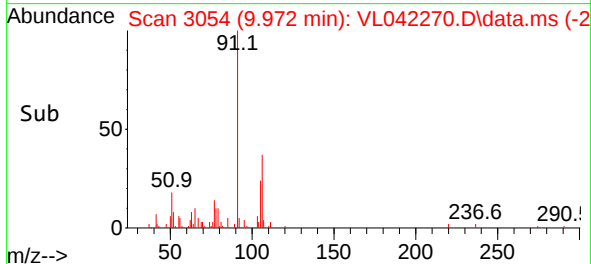
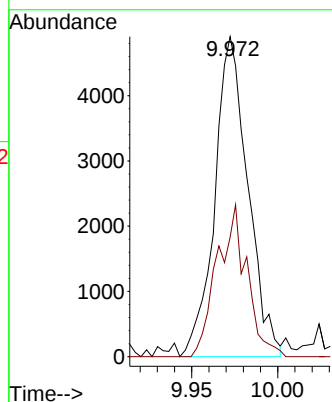
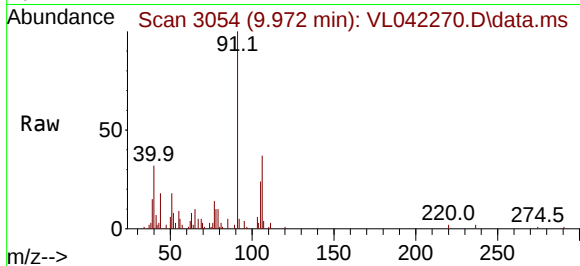




#60
o-Xylene
Concen: 0.125 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.013 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

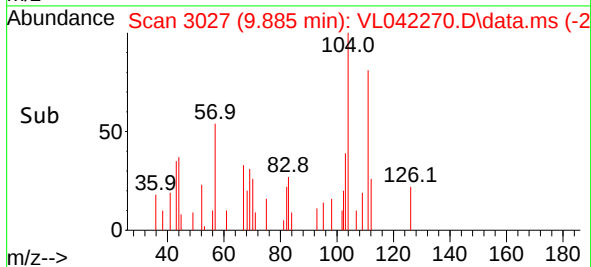
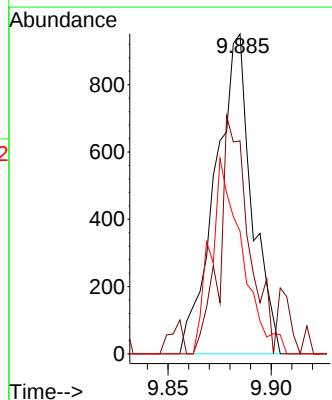
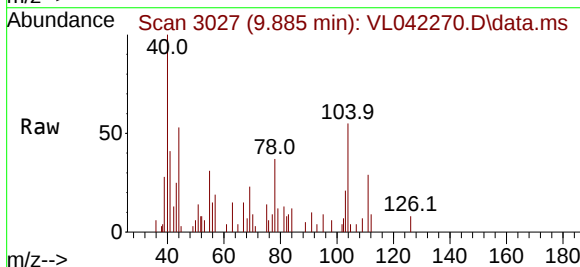
Instrument :
MSVOA_1
ClientSampleId :
SSSG-B2-6-04022025

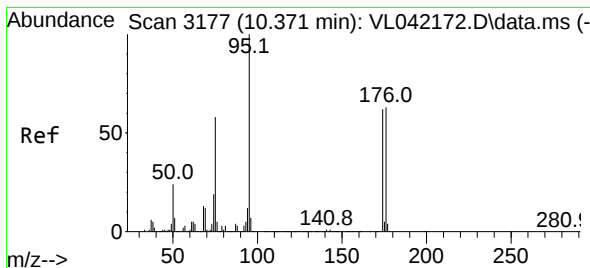
Tgt Ion: 91 Resp: 6578
Ion Ratio Lower Upper
91 100
106 42.8 20.8 62.5



#61
Styrene
Concen: 0.045 ppbv
RT: 9.885 min Scan# 3027
Delta R.T. 0.019 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 104 Resp: 1169
Ion Ratio Lower Upper
104 100
78 70.9 41.8 62.6#
103 53.1 37.0 55.4

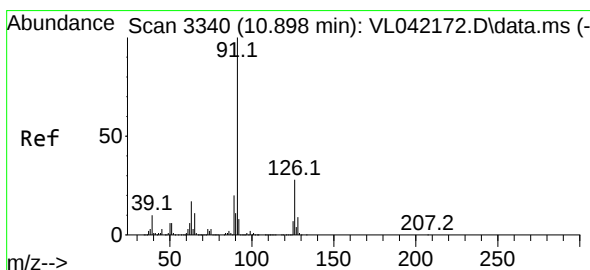
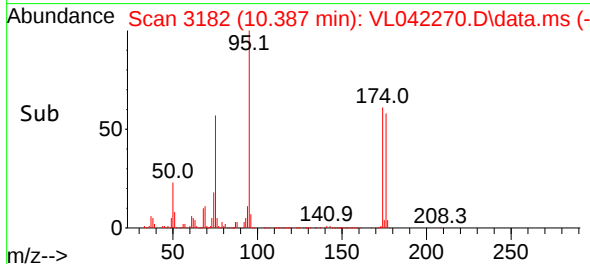
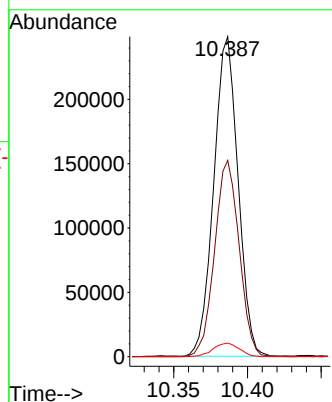
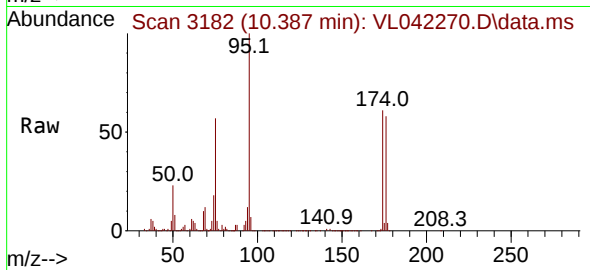




#68
1-Bromo-4-Fluorobenzene
Concen: 9.369 ppbv
RT: 10.387 min Scan# 3177
Delta R.T. 0.016 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

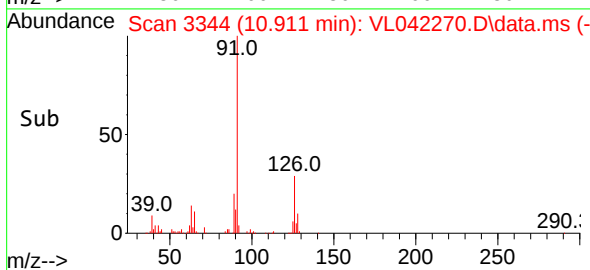
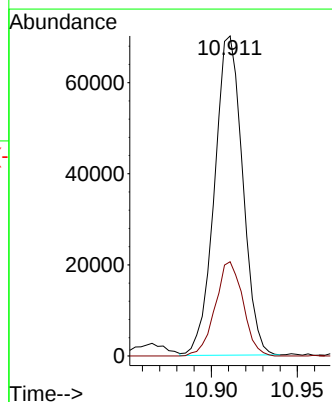
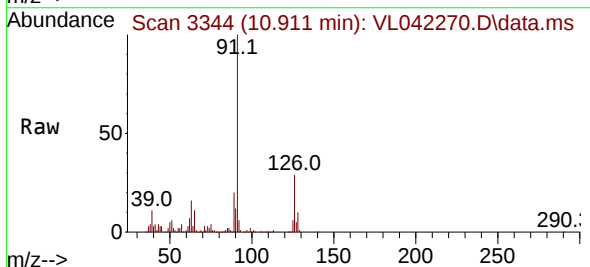
Instrument :
MSVOA_L
ClientSampleId :
SSSG-B2-6-04022025

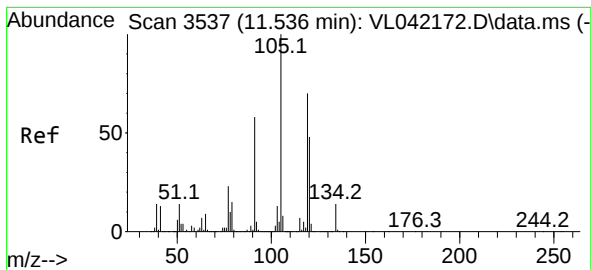
Tgt Ion: 95 Resp: 284411
Ion Ratio Lower Upper
95 100
174 62.1 50.6 76.0
175 4.6 3.8 5.6



#71
2-Chlorotoluene
Concen: 1.308 ppbv
RT: 10.911 min Scan# 3344
Delta R.T. 0.013 min
Lab File: VL042270.D
Acq: 08 Apr 2025 18:32

Tgt Ion: 91 Resp: 79777
Ion Ratio Lower Upper
91 100
126 29.1 11.6 46.4





#74

1,2,4-Trimethylbenzene

Concen: 0.043 ppbv

RT: 11.545 min Scan# 31

Delta R.T. 0.009 min

Lab File: VL042270.D

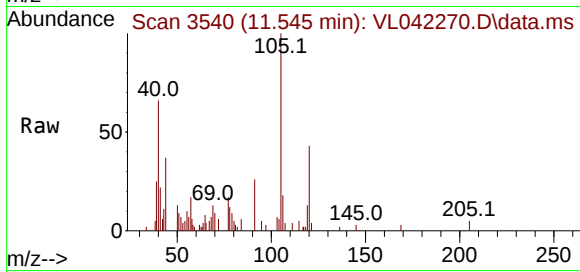
Acq: 08 Apr 2025 18:32

Instrument :

MSVOA_L

ClientSampleId :

SSSG-B2-6-04022025



Tgt Ion:105 Resp: 2809

Ion Ratio Lower Upper

105 100

120 43.2 38.6 58.0

91 26.3 46.2 69.2#

77 16.7 18.6 27.8#

