

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL033125\
 Data File : VL042207.D
 Acq On : 31 Mar 2025 13:05
 Operator : SY/MD
 Sample : Q1649-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Apr 01 01:39:01 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)

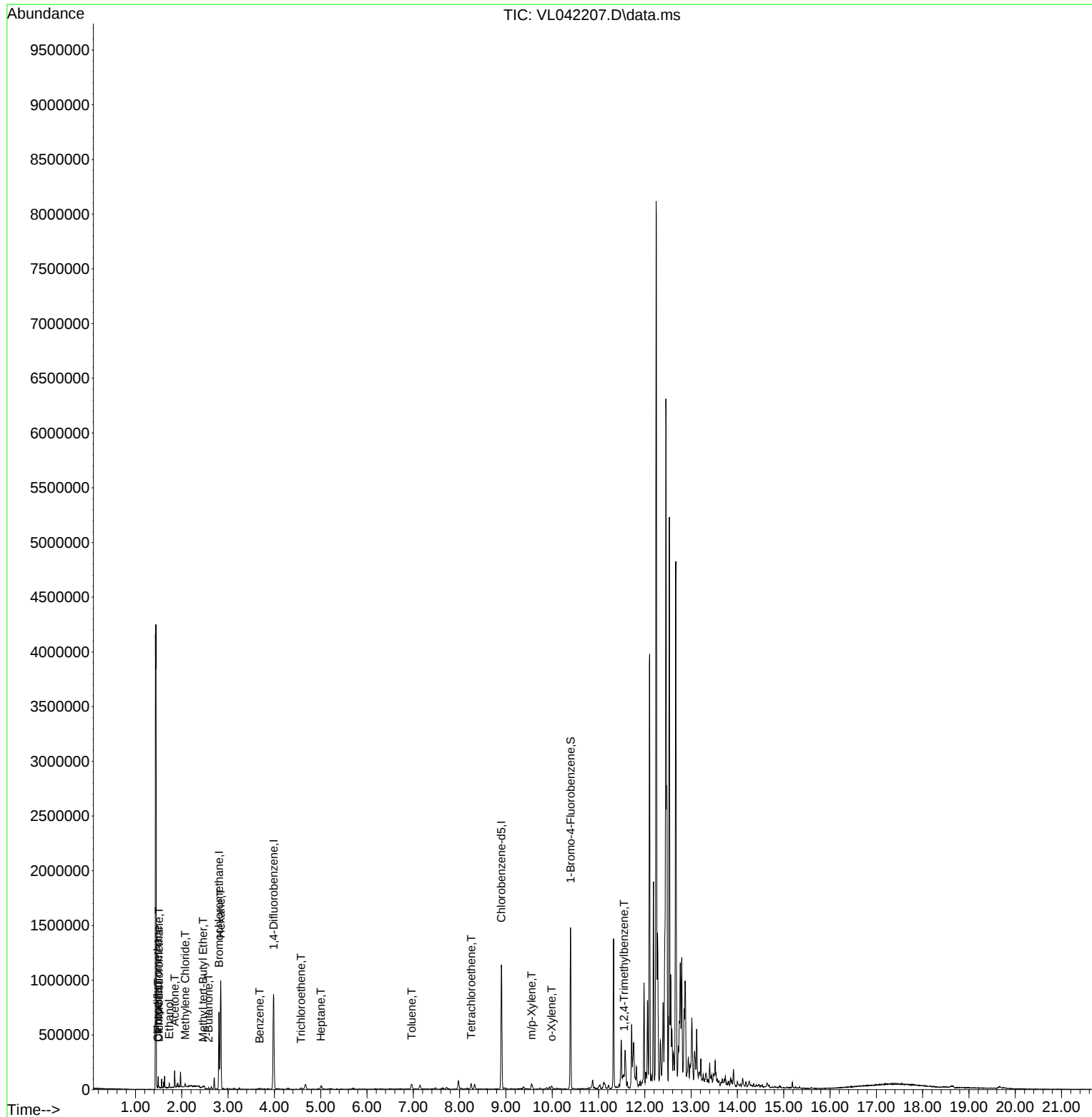
Internal Standards						
1) Bromochloromethane	2.803	49	188990	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	532030	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.901	117	474470	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	384646	9.872	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	4066	0.146	ppbv	99
3) Chlorodifluoromethane	1.483	51	4794m	0.168	ppbv	
9) Propene	1.489	41	15539	1.189	ppbv	93
10) Heptane	5.004	43	14747m	0.424	ppbv	
13) Ethanol	1.729	45	13674	11.071	ppbv #	27
15) Acetone	1.845	43	66131	2.502	ppbv	92
20) Methylene Chloride	2.075	84	3942	0.400	ppbv #	73
26) Hexane	2.842	57	238592	9.004	ppbv #	29
28) Methyl tert-Butyl Ether	2.457	73	4385m	0.266	ppbv	
34) 2-Butanone	2.577	43	8334	0.216	ppbv	95
36) Benzene	3.677	78	5514	0.105	ppbv #	79
38) Trichloroethene	4.577	130	1630m	0.074	ppbv	
52) Tetrachloroethene	8.250	164	7895	0.377	ppbv #	71
53) Toluene	6.966	91	33676	0.539	ppbv	96
59) m/p-Xylene	9.555	91	30419m	0.452	ppbv	
60) o-Xylene	9.985	91	12139	0.180	ppbv	95
74) 1,2,4-Trimethylbenzene	11.552	105	32137	0.380	ppbv #	66

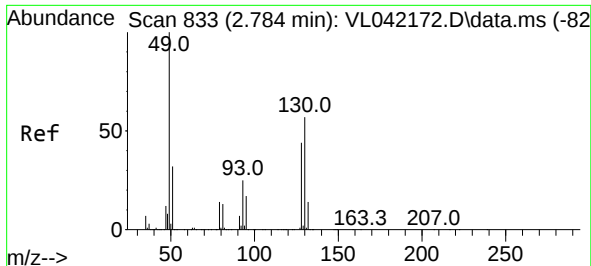
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 28 02:00:52 2025
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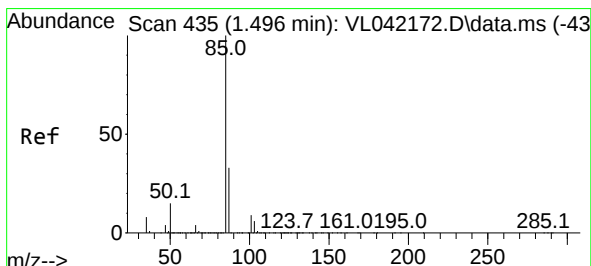
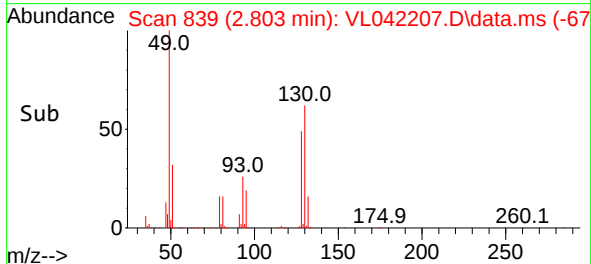
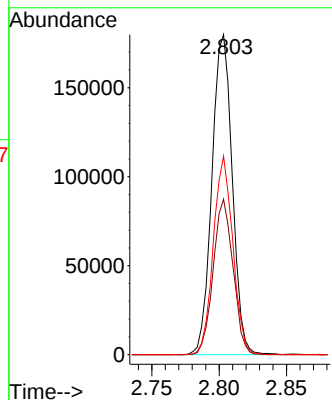
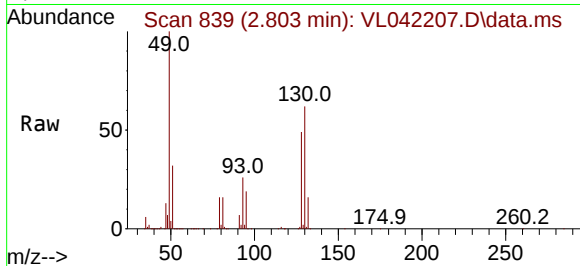




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

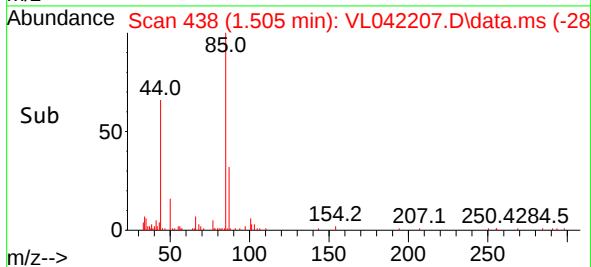
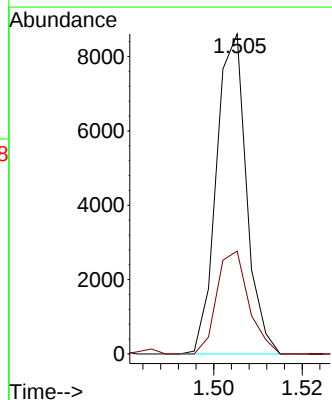
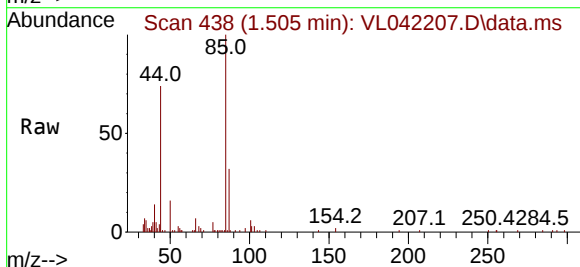
Instrument :
MSVOA_L
ClientSampleId :
SV1

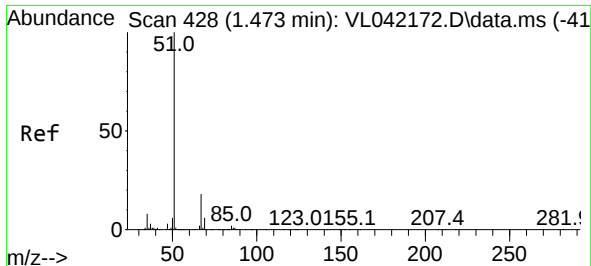
Tgt Ion: 49 Resp: 188990
Ion Ratio Lower Upper
49 100
128 47.3 22.9 68.5
130 59.4 28.8 86.4



#2
Dichlorodifluoromethane
Concen: 0.146 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 85 Resp: 4066
Ion Ratio Lower Upper
85 100
87 32.2 26.1 39.1

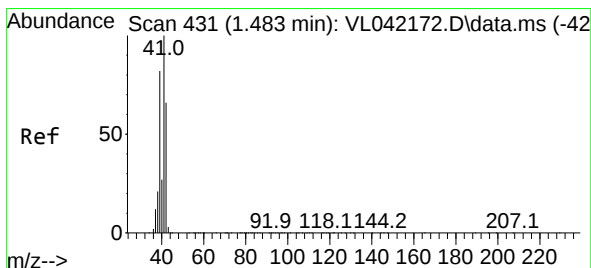
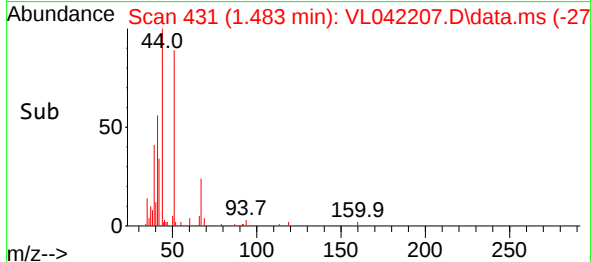
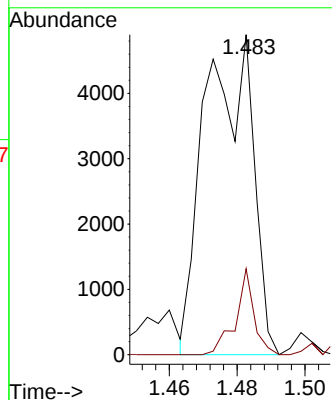
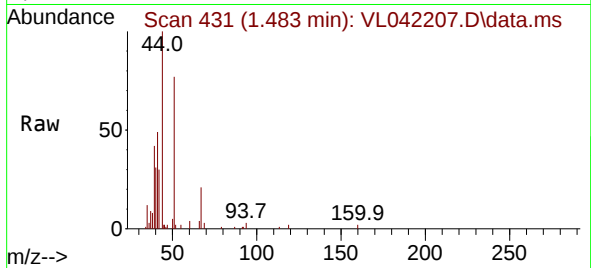




#3
Chlorodifluoromethane
Concen: 0.168 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

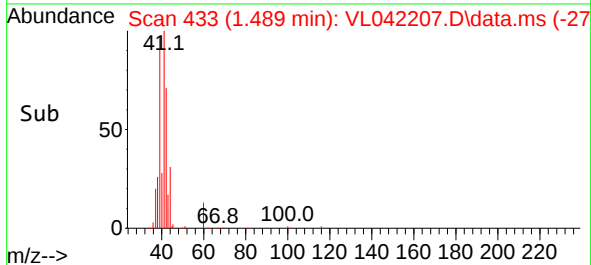
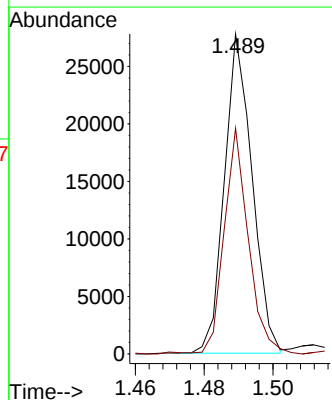
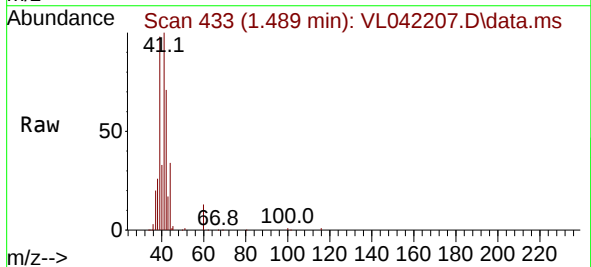
Instrument :
MSVOA_L
ClientSampleId :
SV1

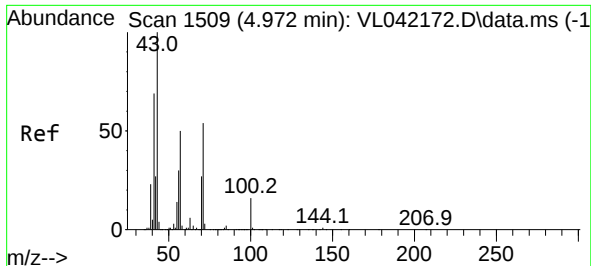
Tgt Ion: 51 Resp: 4794
Ion Ratio Lower Upper
51 100
67 11.2 15.0 22.6#



#9
Propene
Concen: 1.189 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 41 Resp: 15539
Ion Ratio Lower Upper
41 100
42 63.3 55.4 83.2

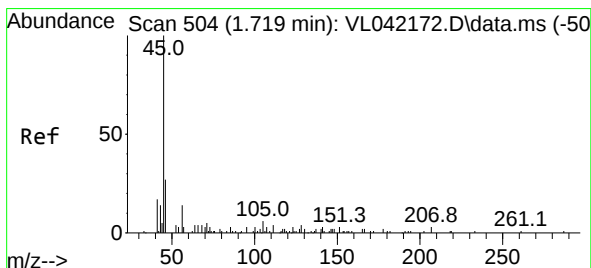
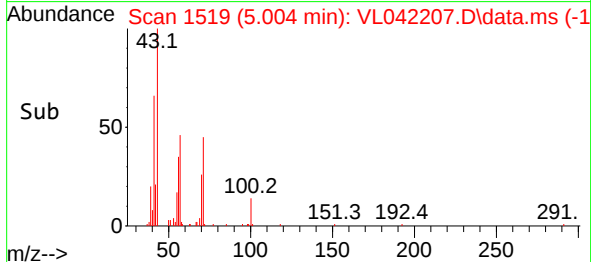
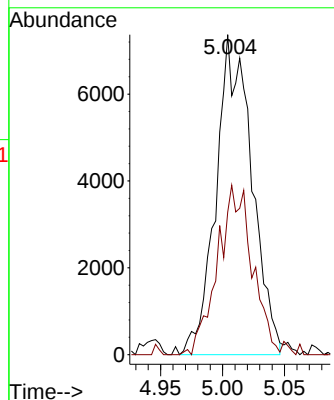
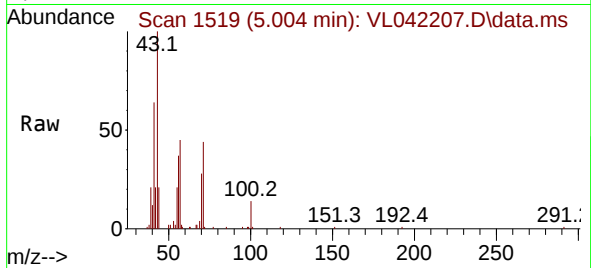




#10
Heptane
Concen: 0.424 ppbv m
RT: 5.004 min Scan# 11
Delta R.T. 0.032 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

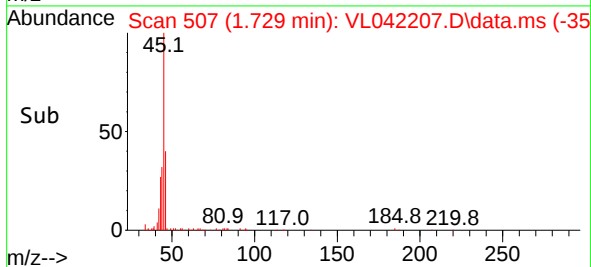
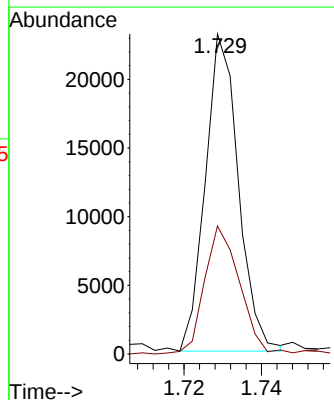
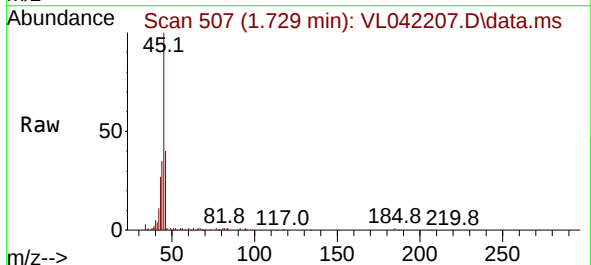
Instrument :
MSVOA_L
ClientSampleId :
SV1

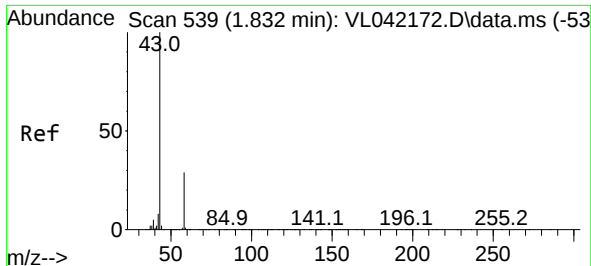
Tgt Ion: 43 Resp: 14747
Ion Ratio Lower Upper
43 100
57 53.0 39.4 59.2



#13
Ethanol
Concen: 11.071 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.010 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 45 Resp: 13674
Ion Ratio Lower Upper
45 100
46 0.0 20.2 80.8#





#15

Acetone

Concen: 2.502 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.013 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

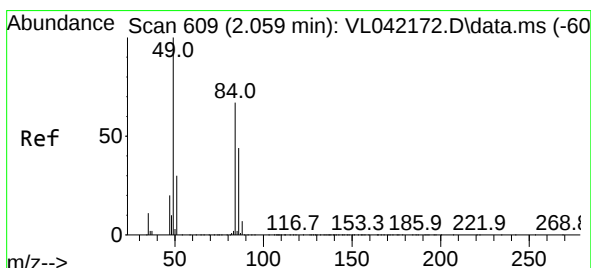
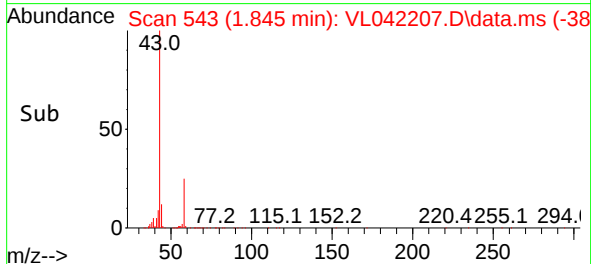
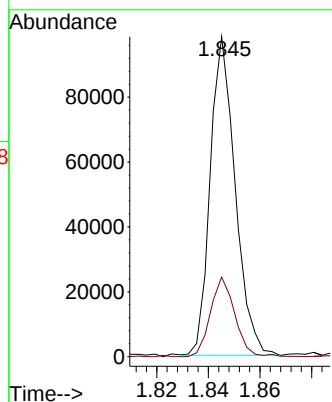
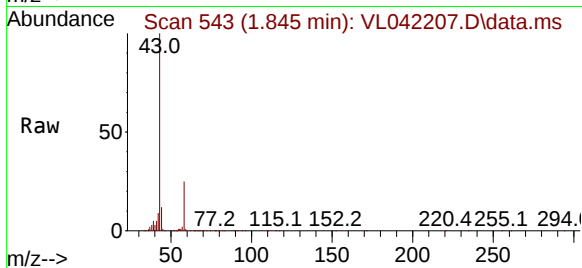
SV1

Tgt Ion: 43 Resp: 66131

Ion Ratio Lower Upper

43 100

58 24.5 23.2 34.8



#20

Methylene Chloride

Concen: 0.400 ppbv

RT: 2.075 min Scan# 614

Delta R.T. 0.016 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Tgt Ion: 84 Resp: 3942

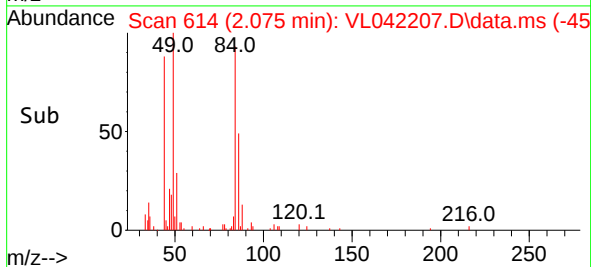
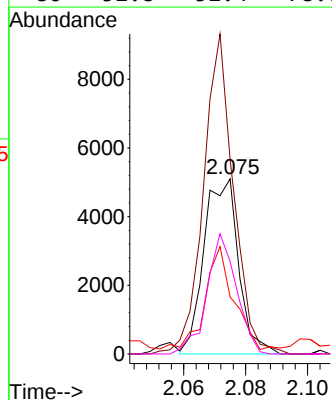
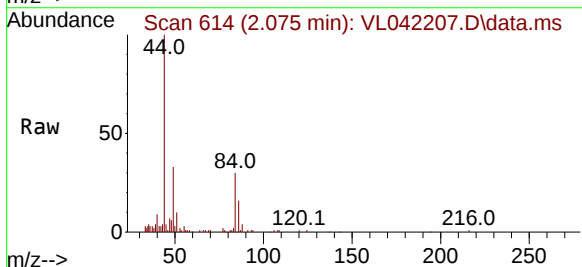
Ion Ratio Lower Upper

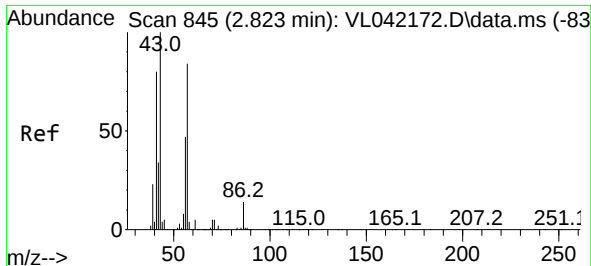
84 100

49 108.8 120.2 180.4#

51 29.1 37.4 56.0#

86 52.8 52.4 78.6

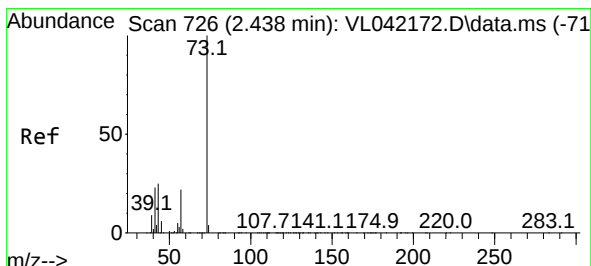
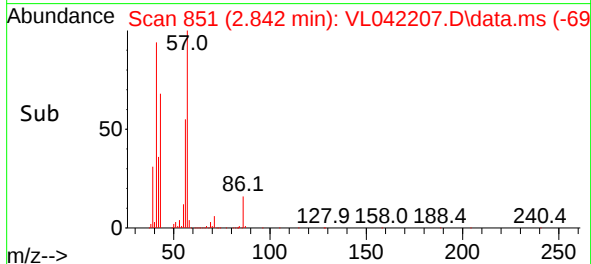
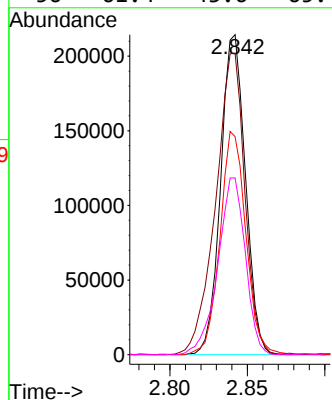
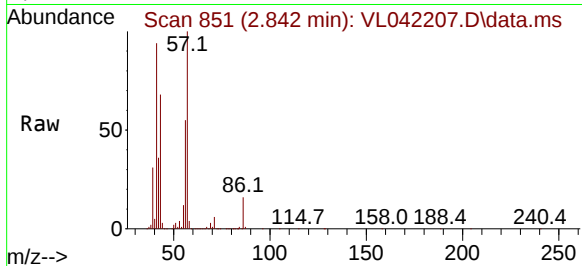




#26
Hexane
Concen: 9.004 ppbv
RT: 2.842 min Scan# 81
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

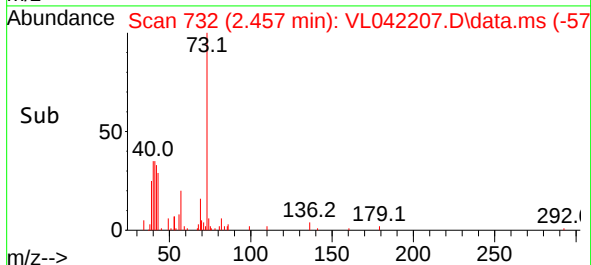
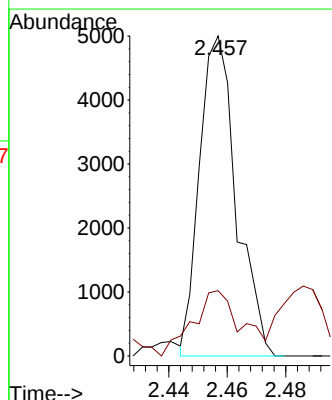
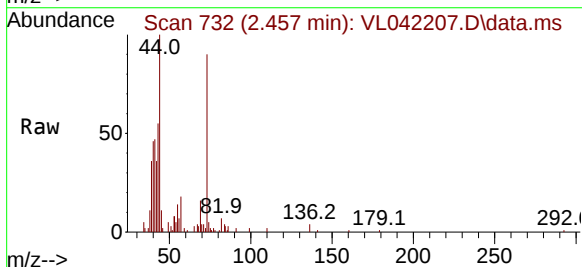
Instrument :
MSVOA_L
ClientSampleId :
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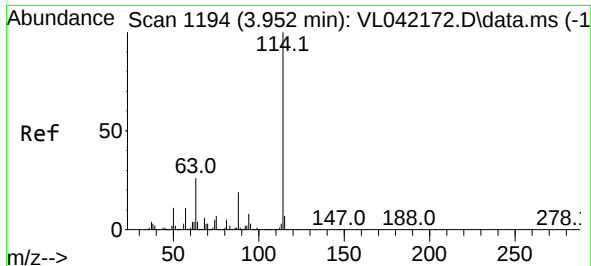
Tgt Ion: 57 Resp: 238592
Ion Ratio Lower Upper
57 100
41 111.2 76.6 114.8
43 73.3 207.8 311.8#
56 61.4 43.6 65.4



#28
Methyl tert-Butyl Ether
Concen: 0.266 ppbv m
RT: 2.457 min Scan# 732
Delta R.T. 0.019 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 73 Resp: 4385
Ion Ratio Lower Upper
73 100
57 0.0 20.5 30.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1194

Delta R.T. 0.029 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

SV1

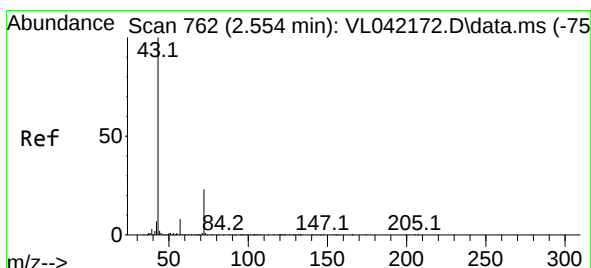
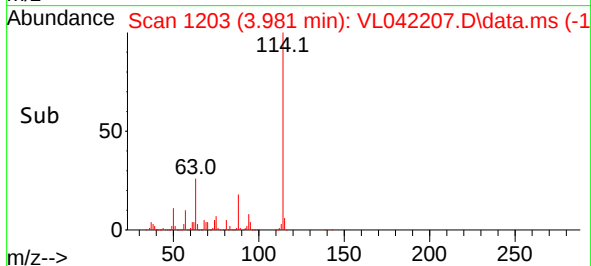
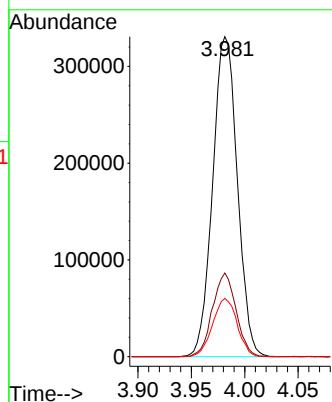
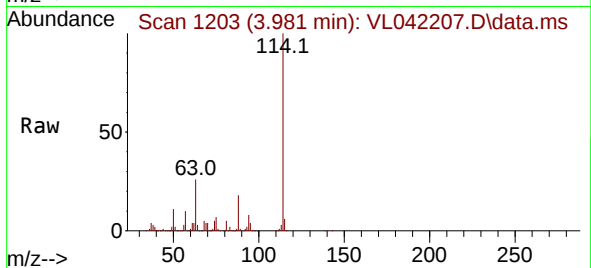
Tgt Ion:114 Resp: 532030

Ion Ratio Lower Upper

114 100

63 25.1 20.7 31.1

88 18.1 15.0 22.4



#34

2-Butanone

Concen: 0.216 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.022 min

Lab File: VL042207.D

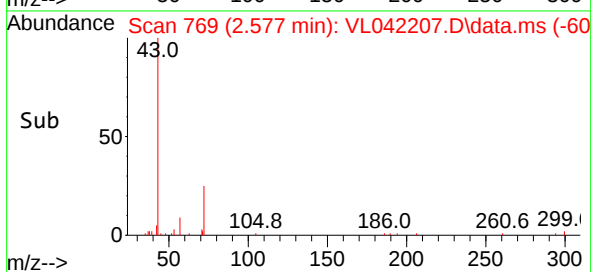
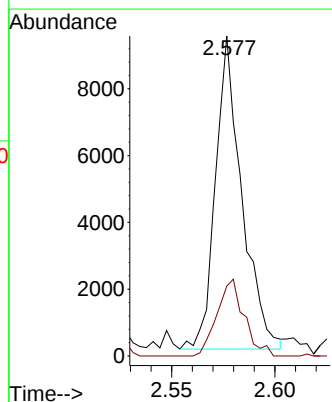
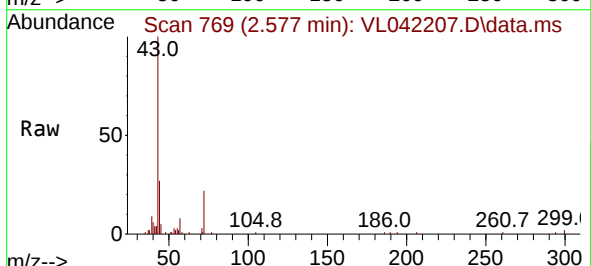
Acq: 31 Mar 2025 13:05

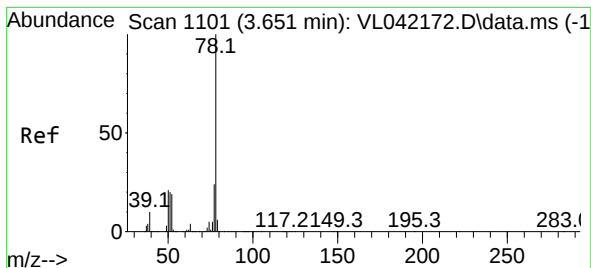
Tgt Ion: 43 Resp: 8334

Ion Ratio Lower Upper

43 100

72 25.1 18.2 27.2





#36

Benzene

Concen: 0.105 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.026 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

SV1

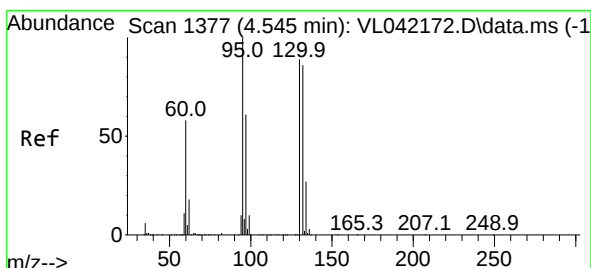
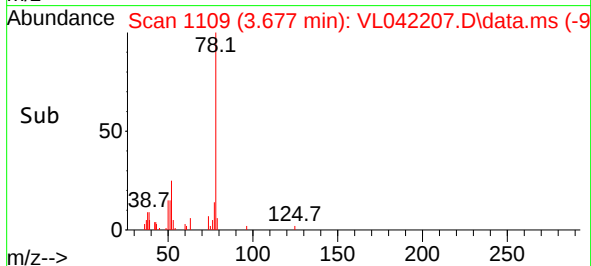
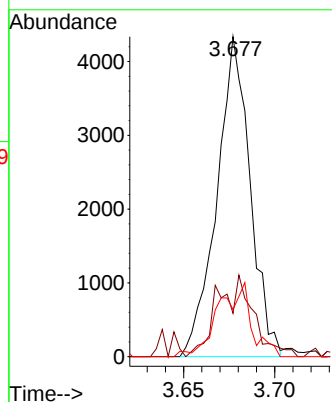
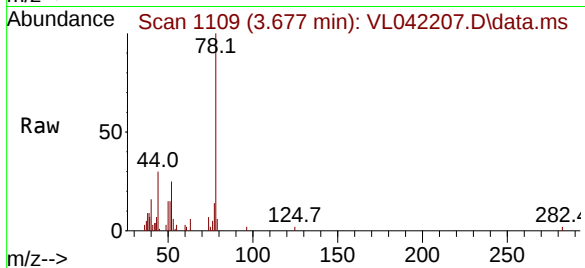
Tgt Ion: 78 Resp: 5514

Ion Ratio Lower Upper

78 100

77 11.1 19.1 28.7#

50 13.2 16.6 24.8#



#38

Trichloroethene

Concen: 0.074 ppbv m

RT: 4.577 min Scan# 1387

Delta R.T. 0.032 min

Lab File: VL042207.D

Acq: 31 Mar 2025 13:05

Tgt Ion:130 Resp: 1630

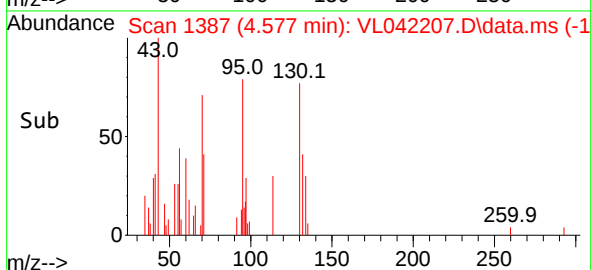
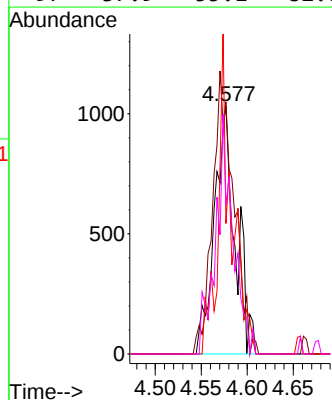
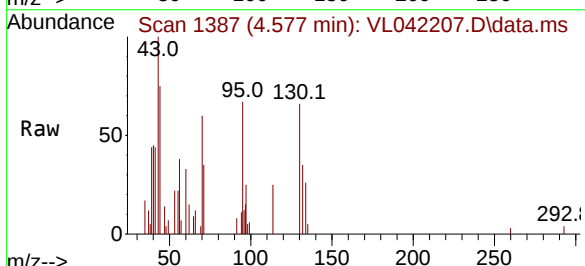
Ion Ratio Lower Upper

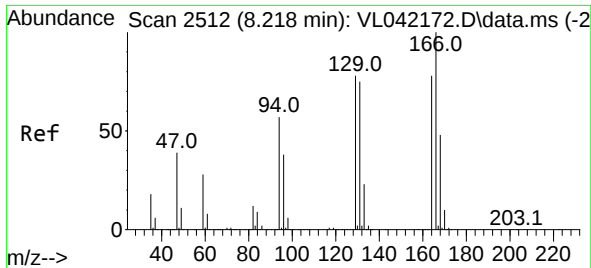
130 100

95 101.6 89.8 134.8

132 52.6 77.4 116.2#

97 37.9 55.1 82.7#

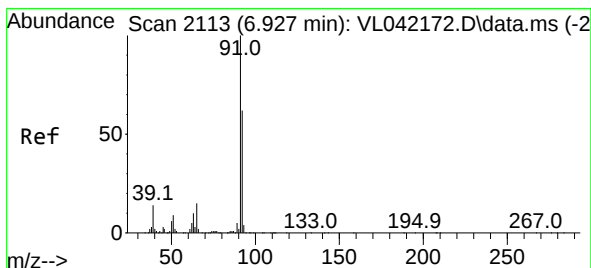
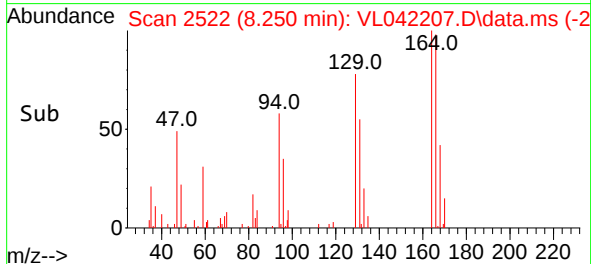
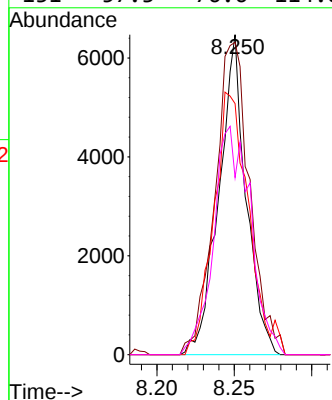
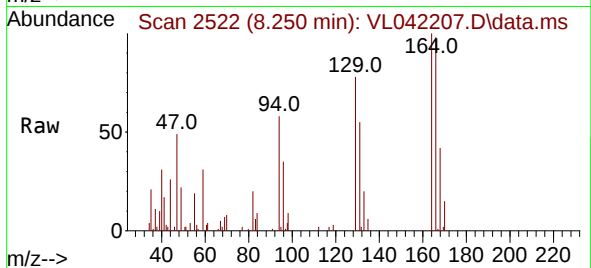




#52
Tetrachloroethene
Concen: 0.377 ppbv
RT: 8.250 min Scan# 2125
Delta R.T. 0.032 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

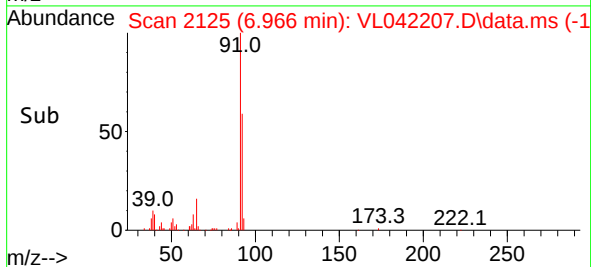
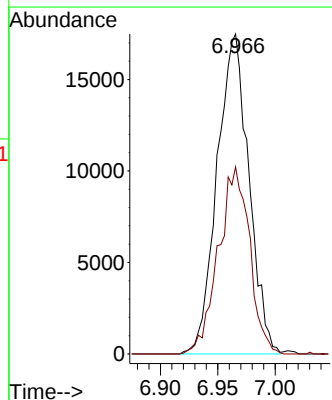
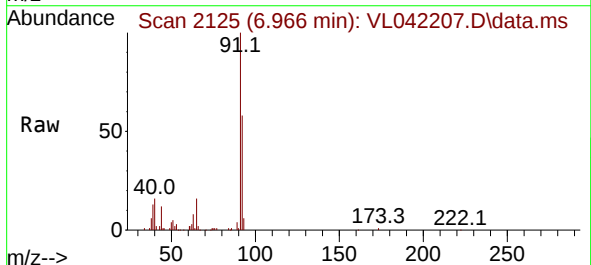
Instrument :
MSVOA_L
ClientSampleId :
SV1

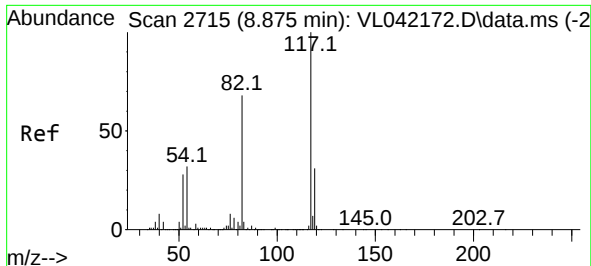
Tgt Ion:164 Resp: 7895
Ion Ratio Lower Upper
164 100
166 97.6 102.5 153.7#
129 78.5 79.8 119.8#
131 57.3 76.6 114.8#



#53
Toluene
Concen: 0.539 ppbv
RT: 6.966 min Scan# 2125
Delta R.T. 0.039 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 91 Resp: 33676
Ion Ratio Lower Upper
91 100
92 57.3 48.4 72.6

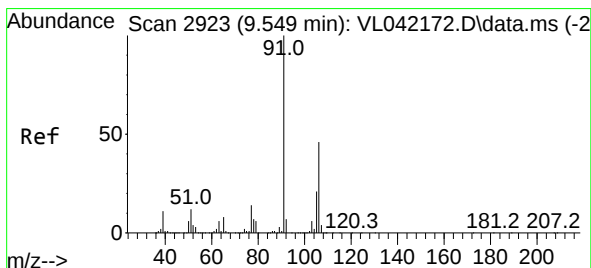
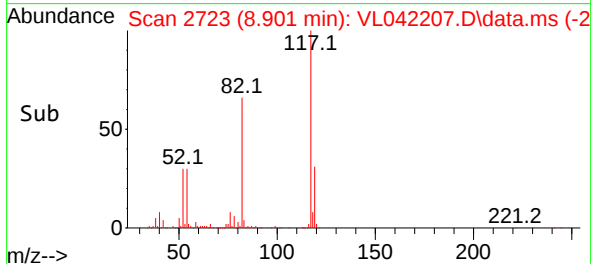
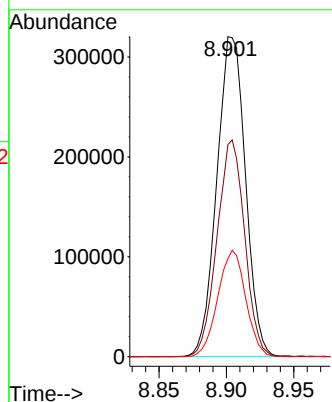
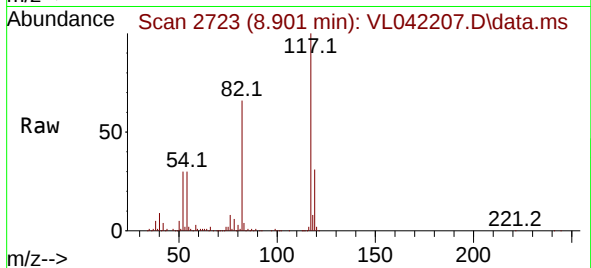




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

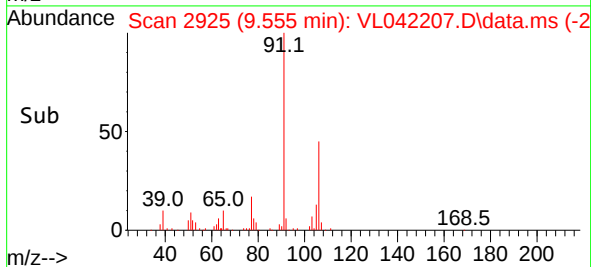
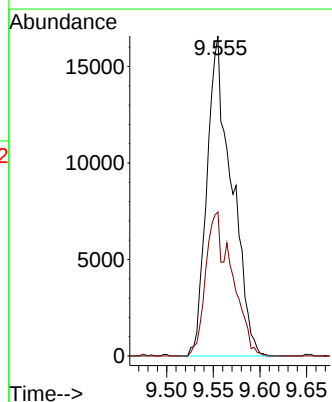
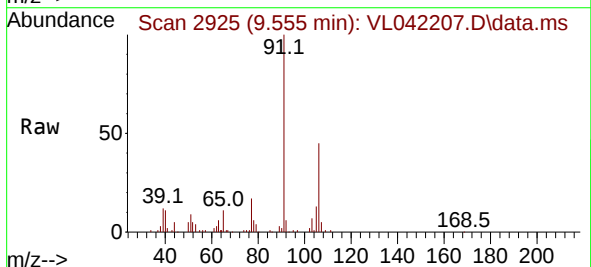
Instrument :
MSVOA_L
ClientSampleId :
SV1

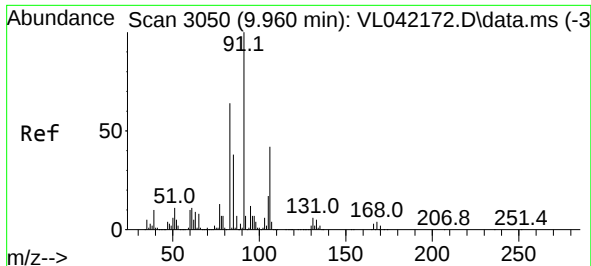
Tgt Ion:117 Resp: 474470
Ion Ratio Lower Upper
117 100
82 65.3 55.8 83.6
119 32.5 25.5 38.3



#59
m/p-Xylene
Concen: 0.452 ppbv m
RT: 9.555 min Scan# 2925
Delta R.T. 0.006 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 91 Resp: 30419
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6#

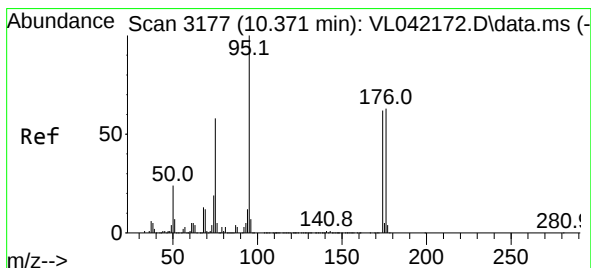
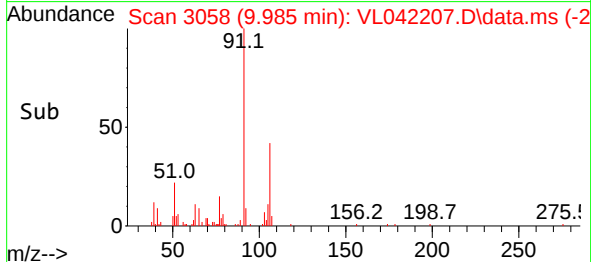
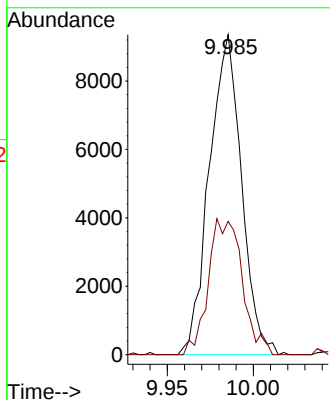
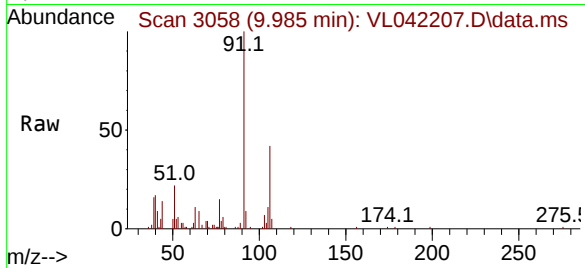




#60
o-Xylene
Concen: 0.180 ppbv
RT: 9.985 min Scan# 3050
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

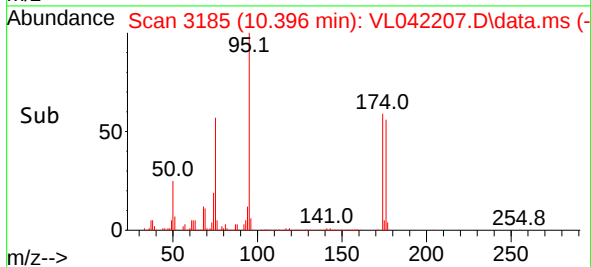
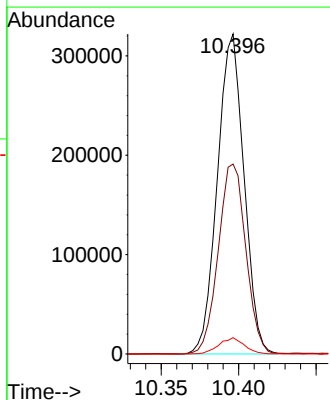
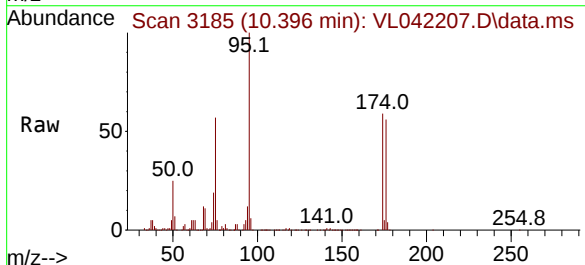
Instrument :
MSVOA_L
ClientSampleId :
SV1

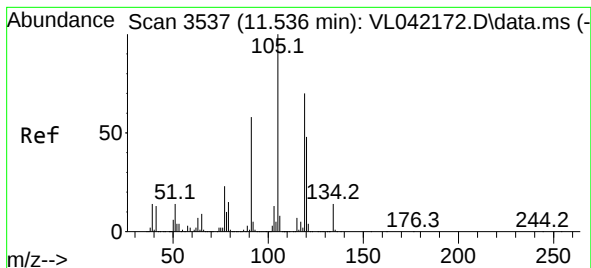
Tgt Ion: 91 Resp: 12139
Ion Ratio Lower Upper
91 100
106 44.8 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.872 ppbv
RT: 10.396 min Scan# 3185
Delta R.T. 0.026 min
Lab File: VL042207.D
Acq: 31 Mar 2025 13:05

Tgt Ion: 95 Resp: 384646
Ion Ratio Lower Upper
95 100
174 61.7 50.6 76.0
175 4.9 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.380 ppbv

RT: 11.552 min Scan# 3

Delta R.T. 0.016 min

Lab File: VL042207.D

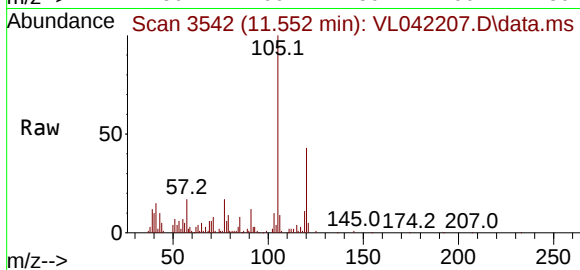
Acq: 31 Mar 2025 13:05

Instrument :

MSVOA_L

ClientSampleId :

SV1



Tgt Ion:105 Resp: 32137

Ion Ratio Lower Upper

105 100

120 42.9 38.6 58.0

91 11.7 46.2 69.2#

77 14.9 18.6 27.8#

