

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050224\
 Data File : VL041207.D
 Acq On : 2 May 2024 22:47
 Operator : SY/MD
 Sample : P2334-13
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-AA01-20240425

Quant Time: May 03 03:45:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 03 03:34:47 2024
 Response via : Initial Calibration

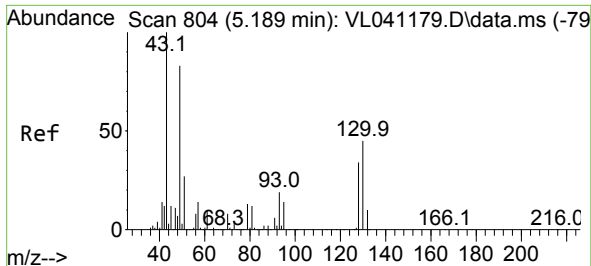
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.192	49	825428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	2131404	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	1946949	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1467888	9.987	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	47802	0.428	ppbv	100
3) Chlorodifluoromethane	2.681	51	36821	0.294	ppbv	94
4) Chloromethane	2.819	50	30695	0.624	ppbv #	86
9) Propene	2.706	41	22244	0.453	ppbv #	81
11) Trichlorofluoromethane	3.565	101	27568	0.243	ppbv #	80
12) 1,1,2-Trichlorotrifluo...	4.070	101	2881	0.034	ppbv #	1
13) Ethanol	3.253	45	41362	3.761	ppbv	85
15) Acetone	3.475	43	332828	3.417	ppbv	97
16) 1,3-Butadiene	2.973	39	5785	0.118	ppbv #	14
17) tert-Butyl alcohol	3.896	59	6330	0.060	ppbv #	72
19) Isopropyl Alcohol	3.591	45	31539	0.493	ppbv #	41
20) Methylene Chloride	3.931	84	74545	2.201	ppbv	98
25) Ethyl Acetate	5.214	43	56522	0.291	ppbv #	84
26) Hexane	5.214	57	74371	0.857	ppbv #	45
34) 2-Butanone	4.793	43	24676	0.227	ppbv #	54
35) Carbon Tetrachloride	6.491	117	3637	0.030	ppbv #	83
36) Benzene	6.362	78	10918	0.061	ppbv #	89
39) 1,2-Dichloropropane	6.648	63	545182	7.909	ppbv #	24
53) Toluene	9.221	91	22535	0.109	ppbv #	1

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

Quant Time: May 03 03:45:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri May 03 03:34:47 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.192 min Scan# 80

Delta R.T. -0.000 min

Lab File: VL041207.D

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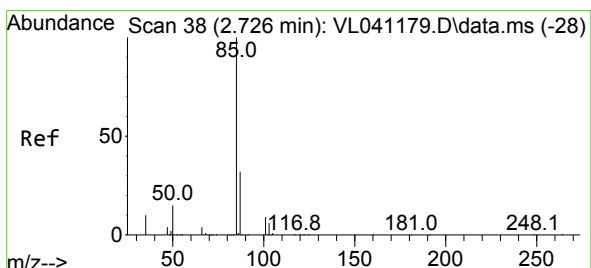
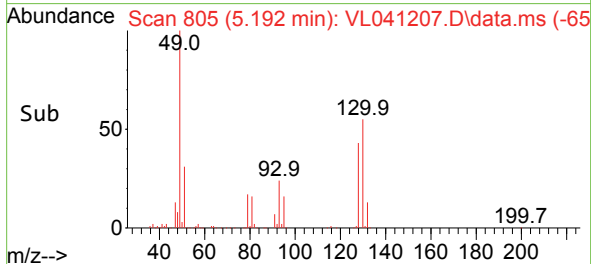
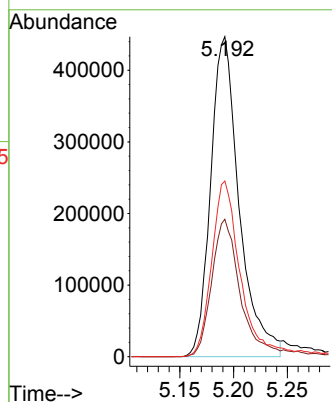
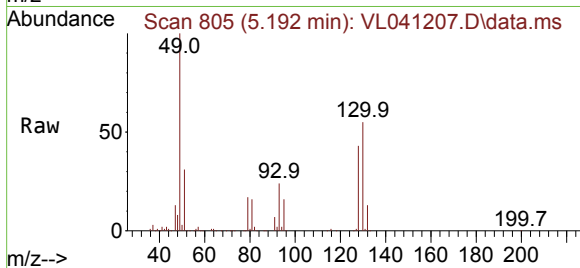
Tgt Ion: 49 Resp: 825428

Ion Ratio Lower Upper

49 100

128 44.6 21.5 64.5

130 58.0 27.2 81.6



#2

Dichlorodifluoromethane

Concen: 0.428 ppbv

RT: 2.735 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL041207.D

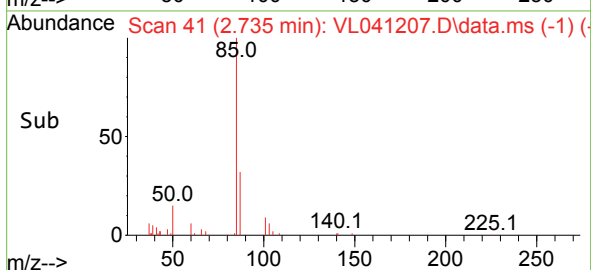
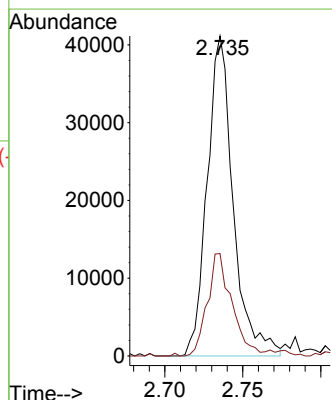
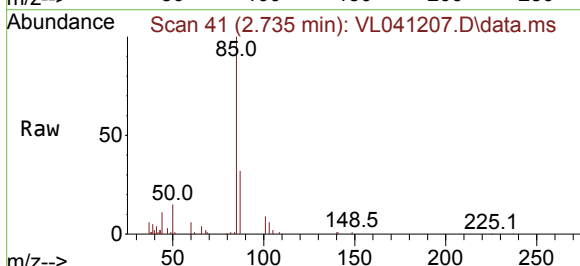
Acq: 2 May 2024 22:47

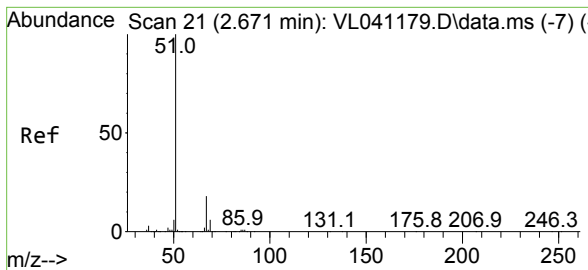
Tgt Ion: 85 Resp: 47802

Ion Ratio Lower Upper

85 100

87 32.0 25.7 38.5

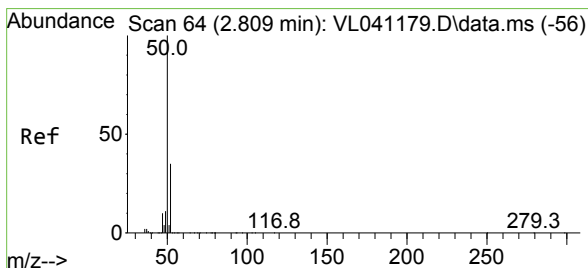
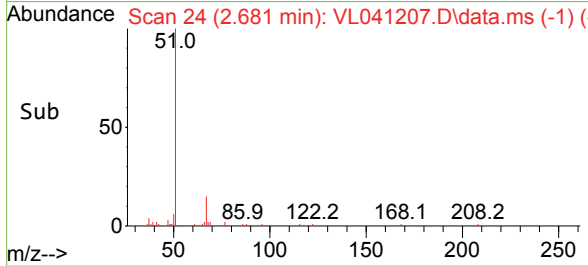
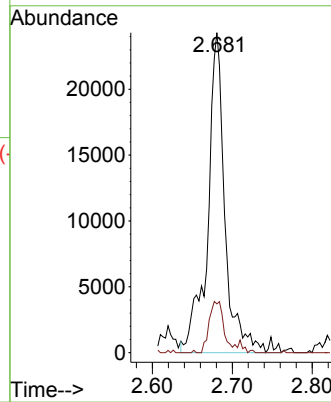
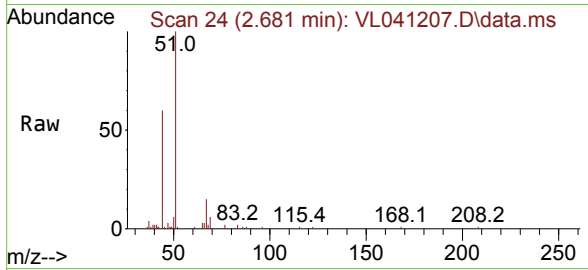




#3
Chlorodifluoromethane
Concen: 0.294 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.007 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

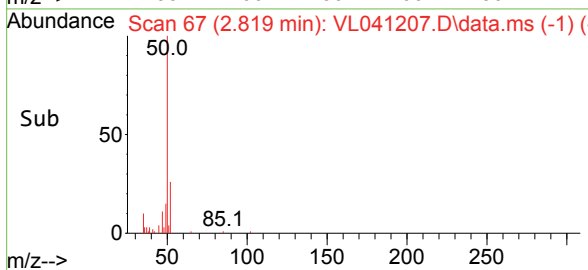
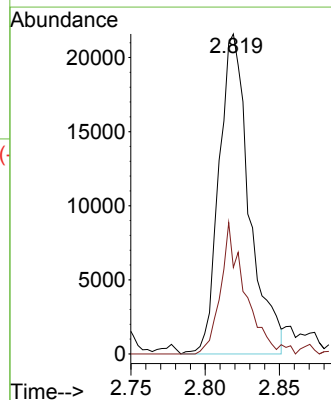
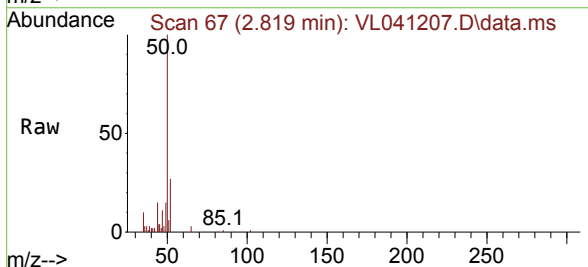
Instrument :
MSVOA_L
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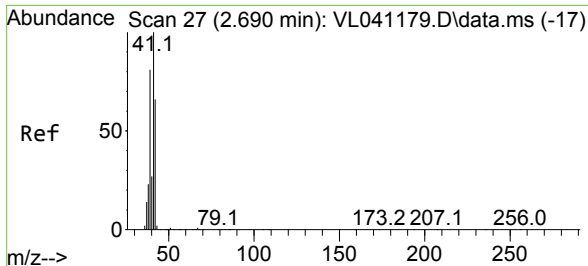
Tgt Ion: 51 Resp: 36821
Ion Ratio Lower Upper
51 100
67 14.9 14.0 21.0



#4
Chloromethane
Concen: 0.624 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.007 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

Tgt Ion: 50 Resp: 30695
Ion Ratio Lower Upper
50 100
52 27.1 28.3 42.5#

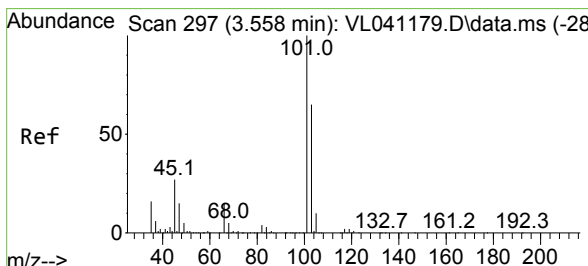
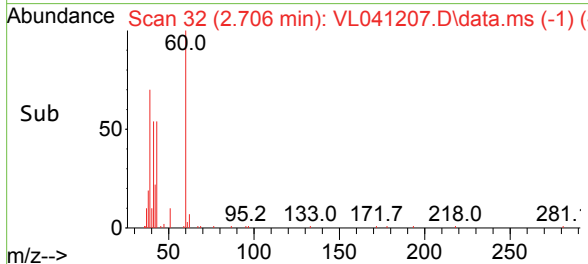
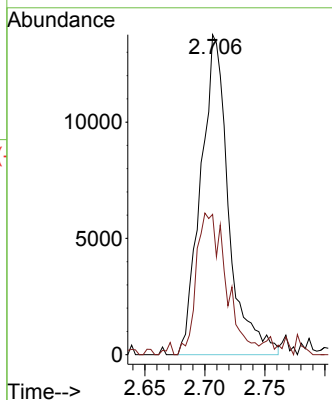
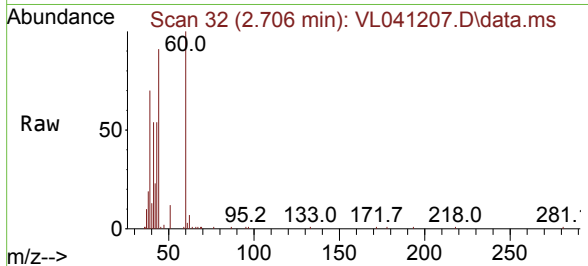




#9
Propene
Concen: 0.453 ppbv
RT: 2.706 min Scan# 31
Delta R.T. 0.013 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

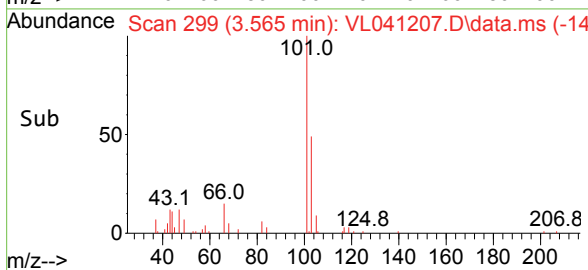
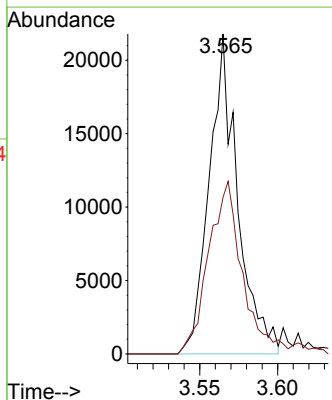
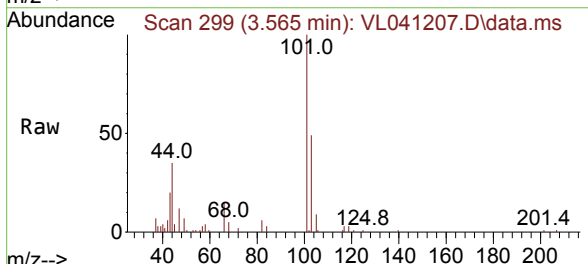
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ClientSampleId :
BA-20-AA01-20240425

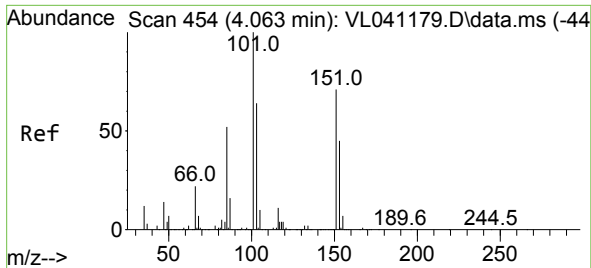
Tgt Ion: 41 Resp: 22244
Ion Ratio Lower Upper
41 100
42 53.6 55.3 82.9#



#11
Trichlorofluoromethane
Concen: 0.243 ppbv
RT: 3.565 min Scan# 299
Delta R.T. 0.007 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

Tgt Ion: 101 Resp: 27568
Ion Ratio Lower Upper
101 100
103 48.9 51.6 77.4#

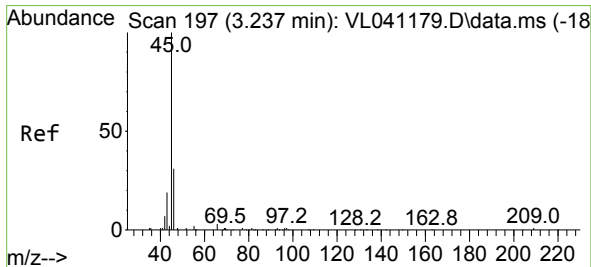
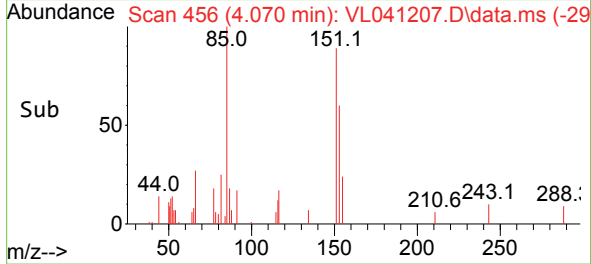
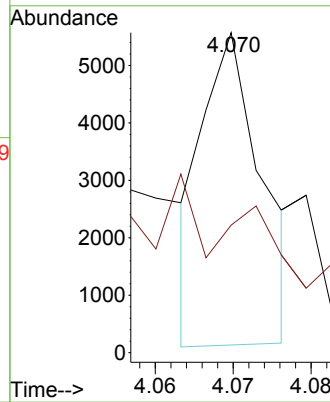
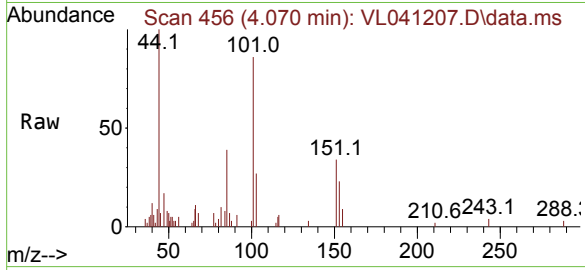




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.034 ppbv
RT: 4.070 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

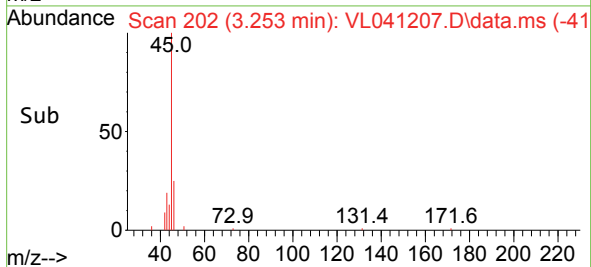
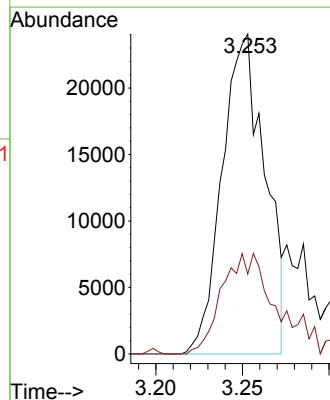
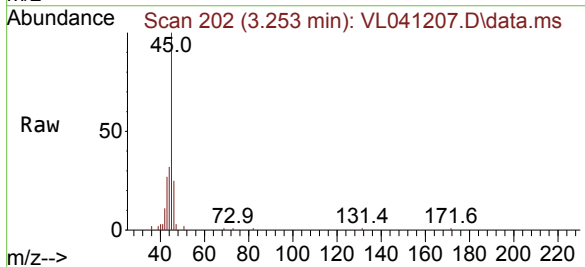
Instrument :
MSVOA_L
ClientSampleId :
BA-20-AA01-20240425

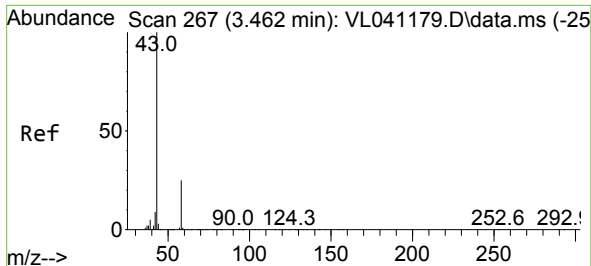
Tgt Ion:101 Resp: 2881
Ion Ratio Lower Upper
101 100
151 160.6 56.8 85.2#



#13
Ethanol
Concen: 3.761 ppbv
RT: 3.253 min Scan# 202
Delta R.T. 0.016 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

Tgt Ion: 45 Resp: 41362
Ion Ratio Lower Upper
45 100
46 45.6 14.8 59.0





#15

Acetone

Concen: 3.417 ppbv

RT: 3.475 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL041207.D

Acq: 2 May 2024 22:47

Instrument :

MSVOA_L

ClientSampleId :

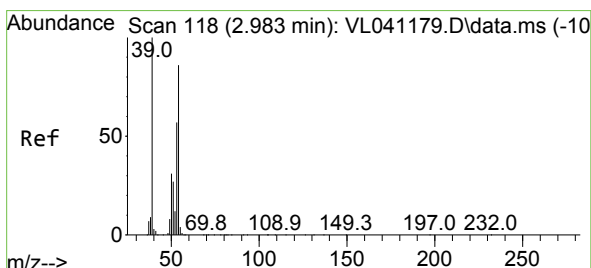
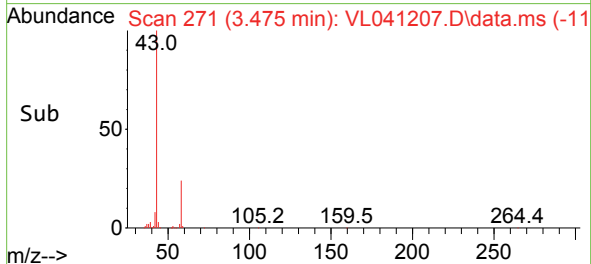
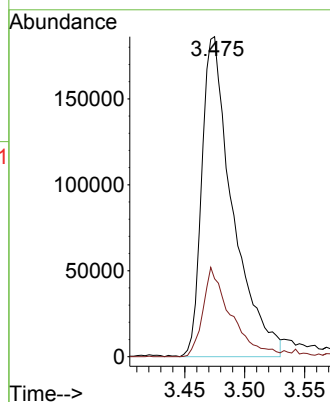
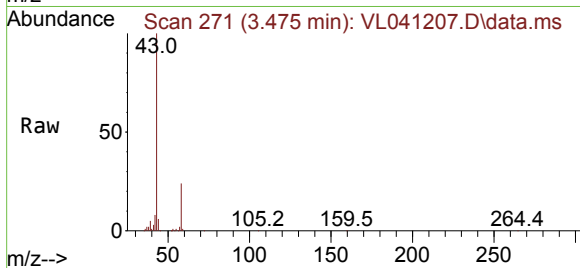
BA-20-AA01-20240425

Tgt Ion: 43 Resp: 332828

Ion Ratio Lower Upper

43 100

58 28.0 21.4 32.0



#16

1,3-Butadiene

Concen: 0.118 ppbv

RT: 2.973 min Scan# 115

Delta R.T. -0.009 min

Lab File: VL041207.D

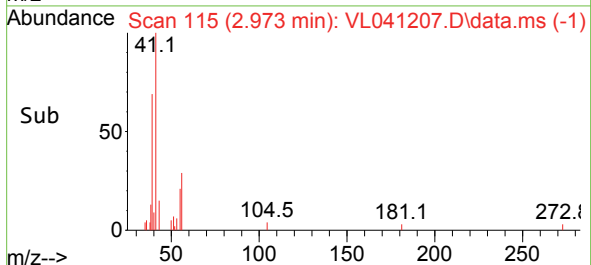
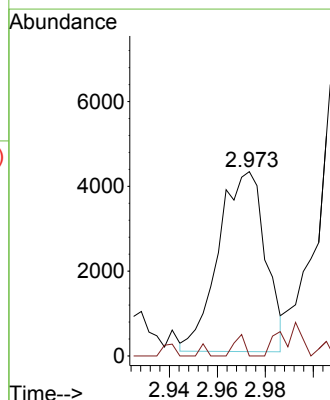
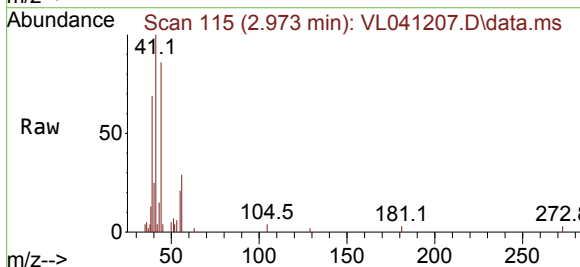
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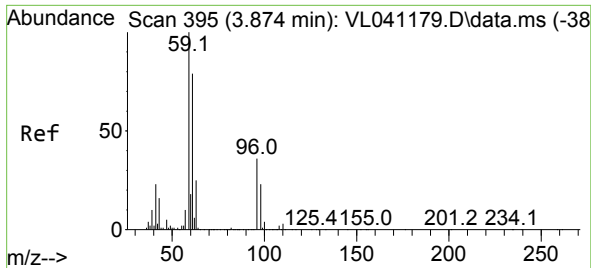
Tgt Ion: 39 Resp: 5785

Ion Ratio Lower Upper

39 100

54 2.7 62.2 93.4#

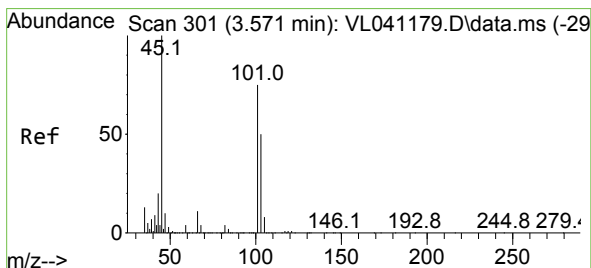
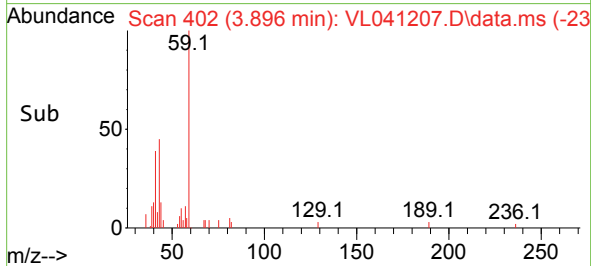
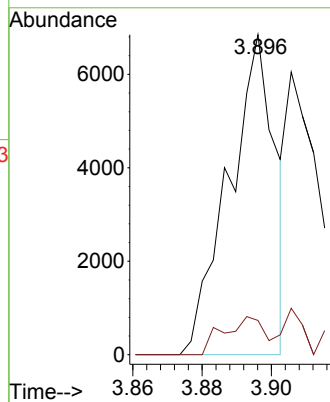
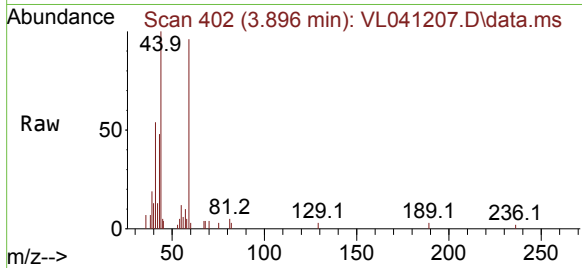




#17
tert-Butyl alcohol
Concen: 0.060 ppbv
RT: 3.896 min Scan# 402
Delta R.T. 0.023 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

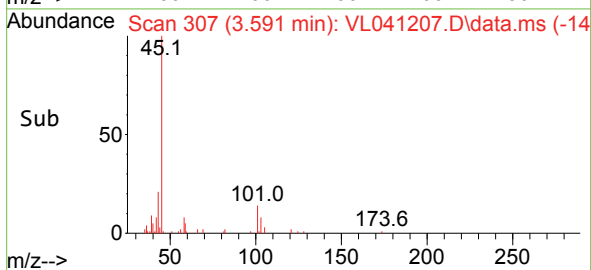
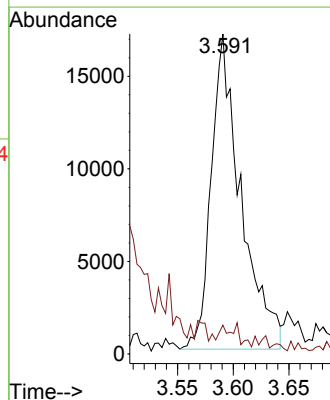
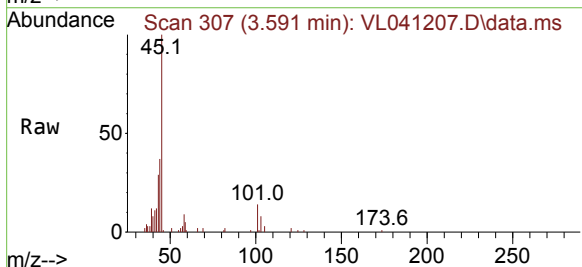
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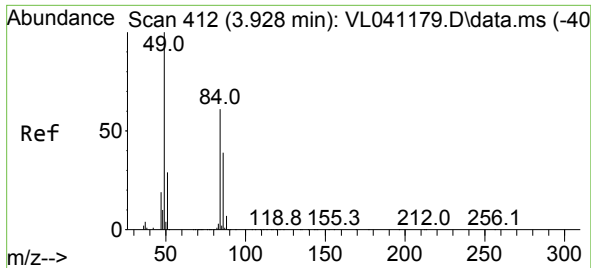
Tgt Ion: 59 Resp: 6330
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#19
Isopropyl Alcohol
Concen: 0.493 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.019 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

Tgt Ion: 45 Resp: 31539
Ion Ratio Lower Upper
45 100
58 0.0 26.8 40.2#

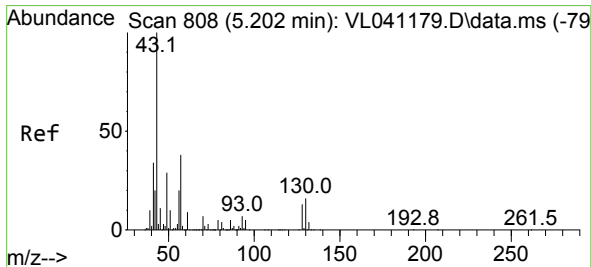
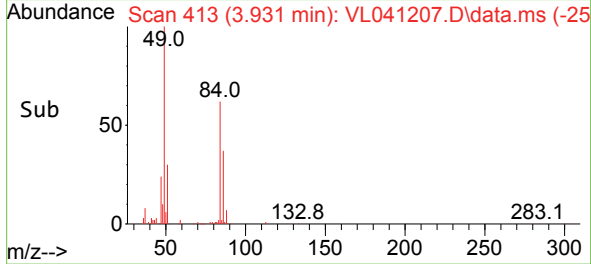
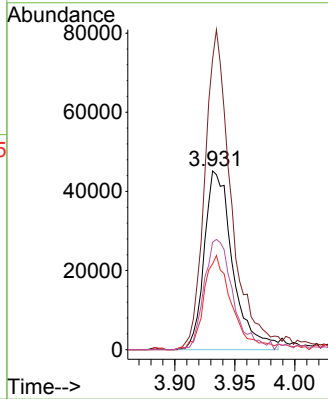
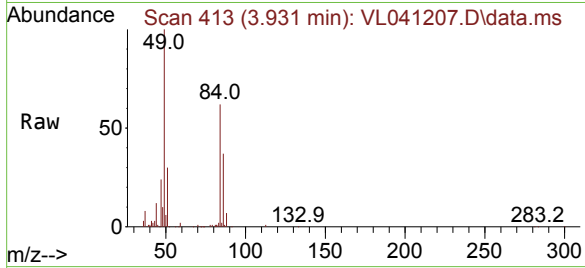




#20
Methylene Chloride
Concen: 2.201 ppbv
RT: 3.931 min Scan# 412
Delta R.T. 0.000 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

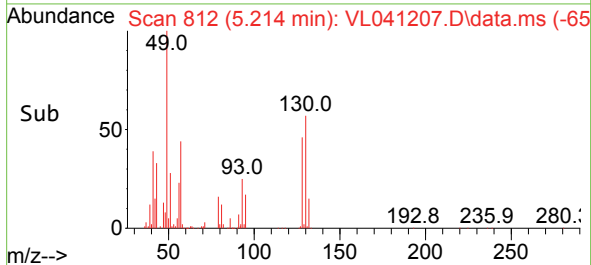
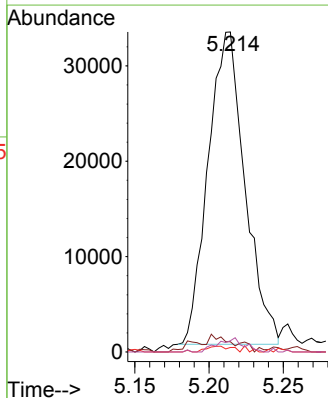
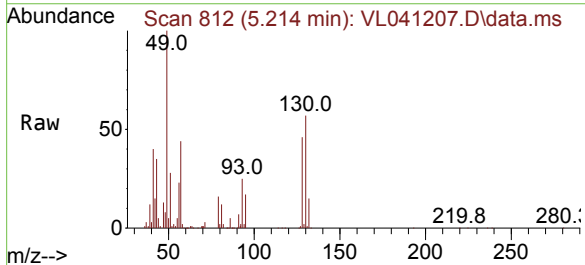
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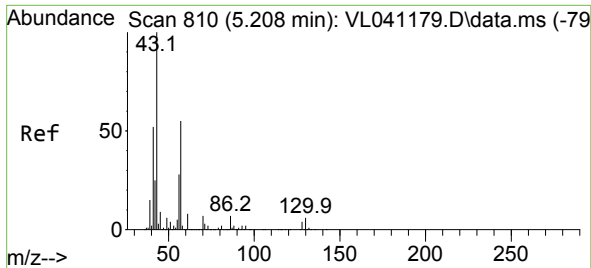
Tgt Ion: 84 Resp: 74545
Ion Ratio Lower Upper
84 100
49 161.8 130.4 195.6
51 47.1 38.0 57.0
86 59.7 50.3 75.5



#25
Ethyl Acetate
Concen: 0.291 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.013 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

Tgt Ion: 43 Resp: 56522
Ion Ratio Lower Upper
43 100
45 5.8 8.2 12.2#
61 1.3 7.7 11.5#
70 3.4 5.8 8.6#

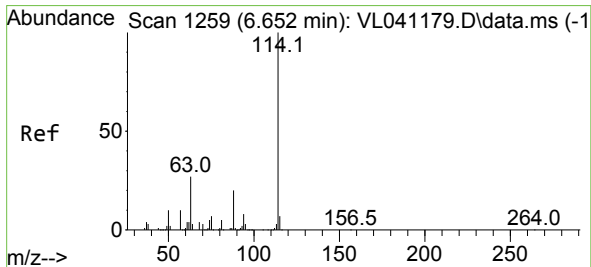
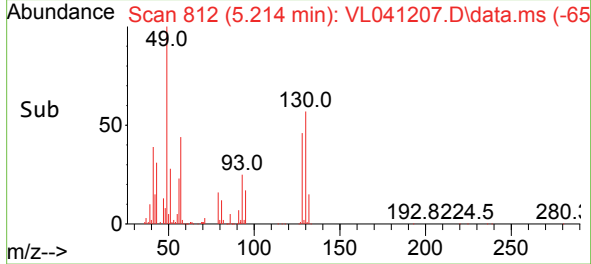
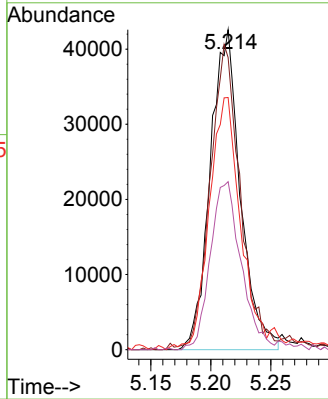
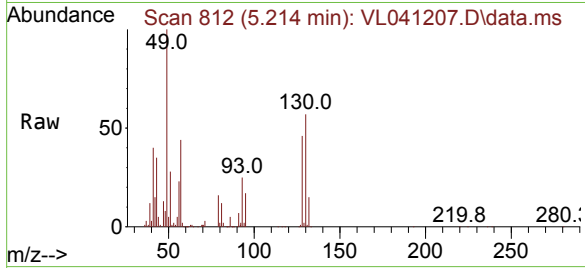




#26
Hexane
Concen: 0.857 ppbv
RT: 5.214 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

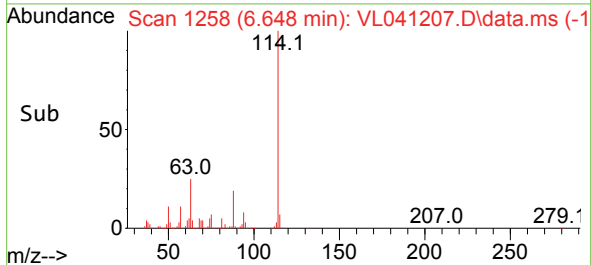
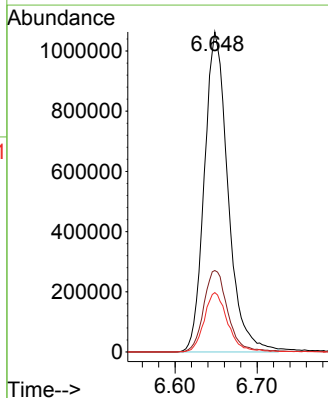
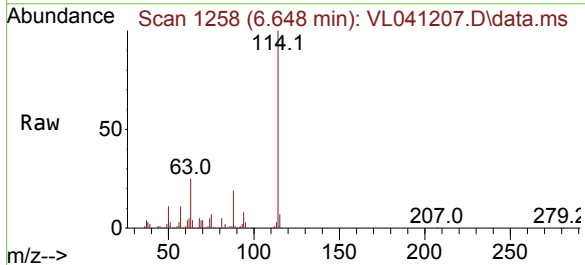
Instrument :
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ClientSampleId :
BA-20-AA01-20240425

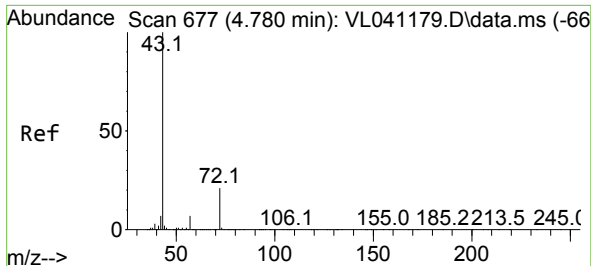
Tgt Ion: 57 Resp: 74371
Ion Ratio Lower Upper
57 100
41 99.1 75.8 113.8
43 87.3 187.0 280.4#
56 55.4 42.7 64.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. -0.003 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

Tgt Ion: 114 Resp: 2131404
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 18.7 15.2 22.8

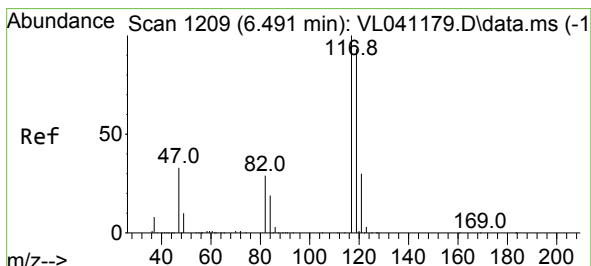
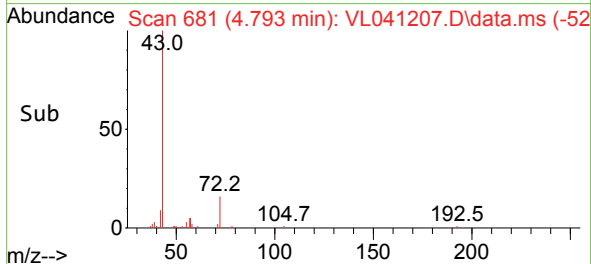
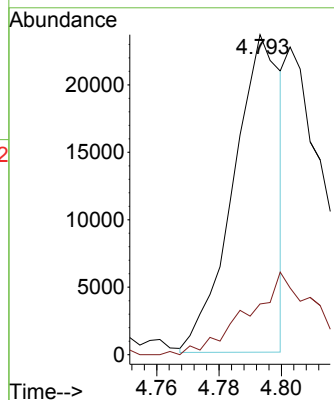
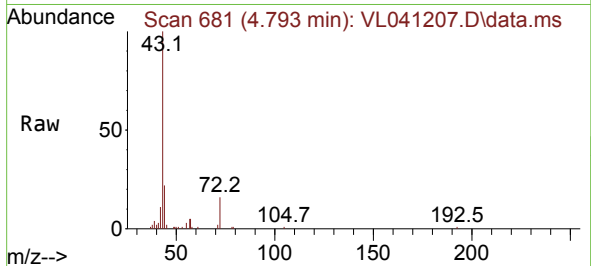




#34
2-Butanone
Concen: 0.227 ppbv
RT: 4.793 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

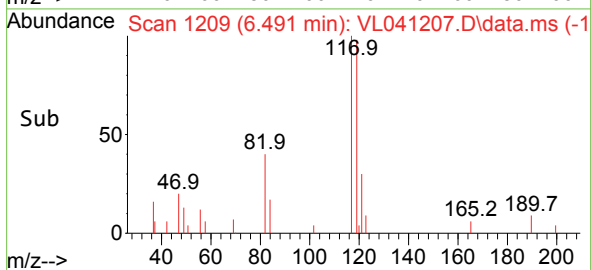
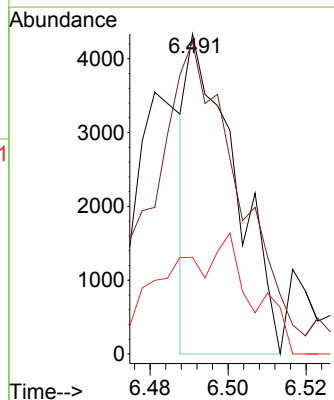
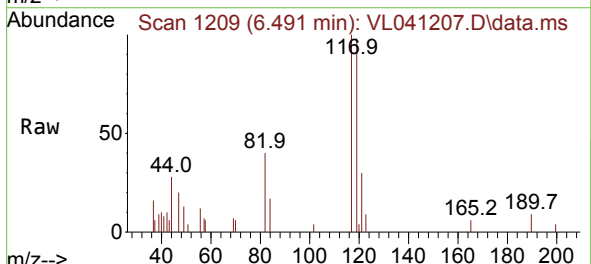
Instrument :
MSVOA_L
ClientSampleId :
BA-20-AA01-20240425

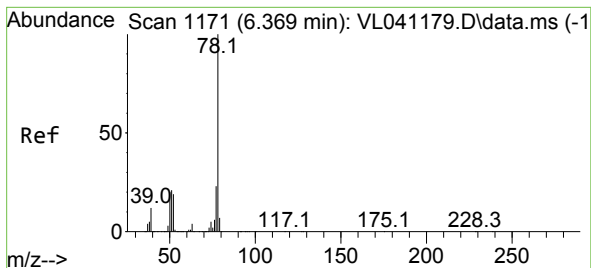
Tgt Ion: 43 Resp: 24676
Ion Ratio Lower Upper
43 100
72 0.0 17.3 25.9#



#35
Carbon Tetrachloride
Concen: 0.030 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. 0.000 min
Lab File: VL041207.D
Acq: 2 May 2024 22:47

Tgt Ion: 117 Resp: 3637
Ion Ratio Lower Upper
117 100
119 79.1 74.3 111.5
121 15.7 23.8 35.8#





#36

Benzene

Concen: 0.061 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. -0.006 min

Lab File: VL041207.D

Acq: 2 May 2024 22:47

Instrument :

MSVOA_L

ClientSampleId :

BA-20-AA01-20240425

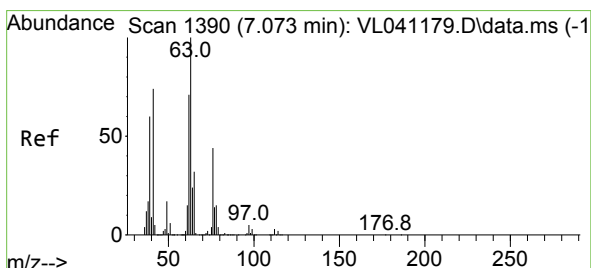
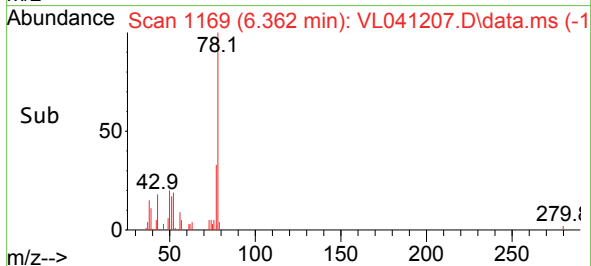
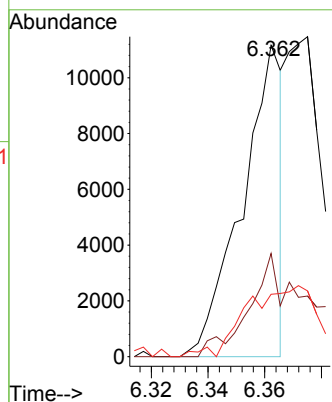
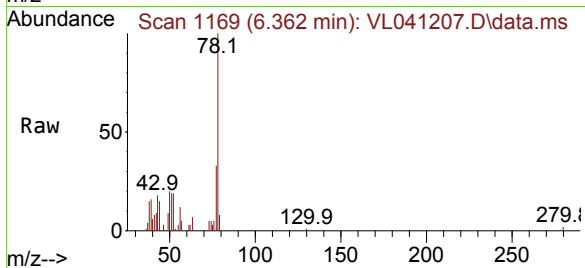
Tgt Ion: 78 Resp: 10918

Ion Ratio Lower Upper

78 100

77 33.1 18.3 27.5#

50 20.0 15.9 23.9



#39

1,2-Dichloropropane

Concen: 7.909 ppbv

RT: 6.648 min Scan# 1258

Delta R.T. -0.424 min

Lab File: VL041207.D

Acq: 2 May 2024 22:47

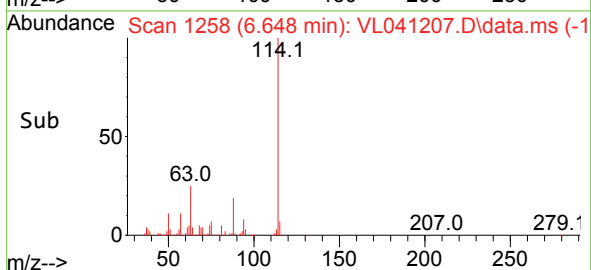
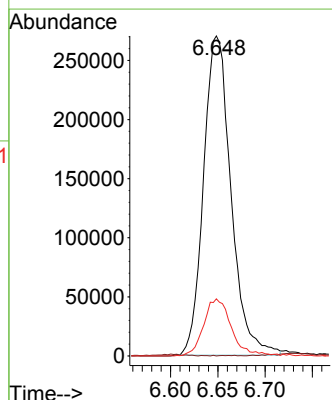
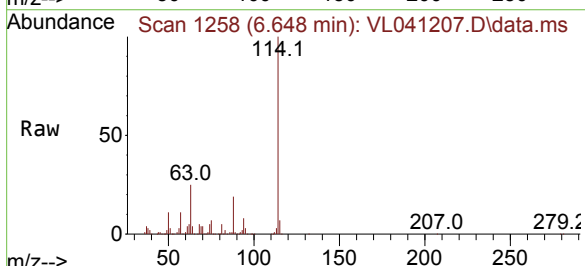
Tgt Ion: 63 Resp: 545182

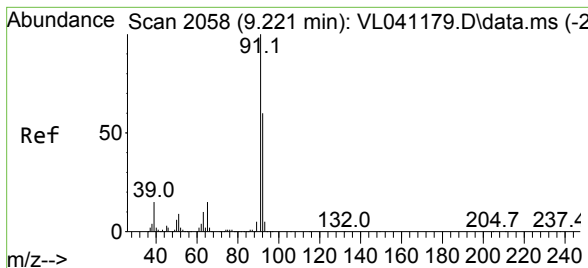
Ion Ratio Lower Upper

63 100

41 0.0 59.4 89.0#

62 17.8 56.8 85.2#





#53

Toluene

Concen: 0.109 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. 0.000 min

Lab File: VL041207.D

Acq: 2 May 2024 22:47

Instrument :

MSVOA_L

ClientSampleId :

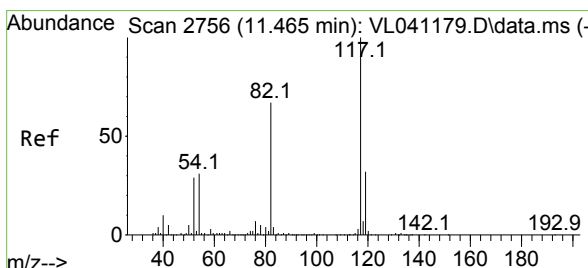
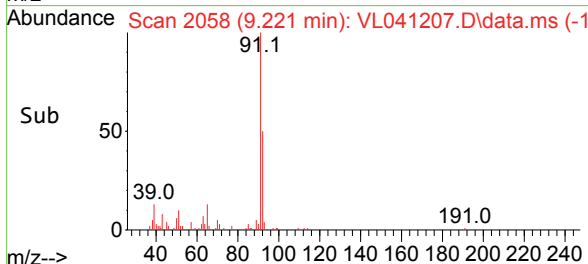
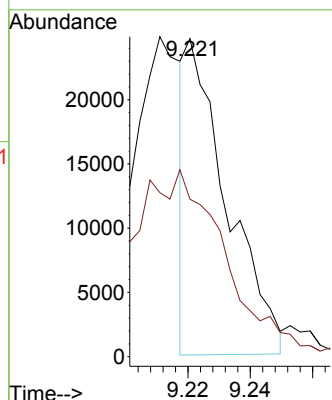
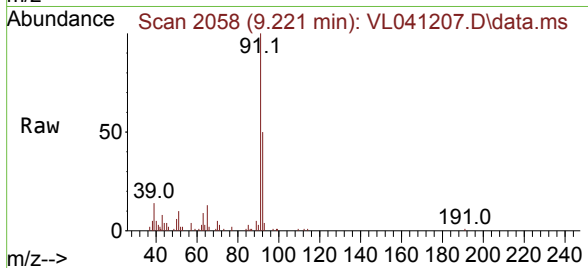
BA-20-AA01-20240425

Tgt Ion: 91 Resp: 22535

Ion Ratio Lower Upper

91 100

92 145.3 48.2 72.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 2754

Delta R.T. -0.006 min

Lab File: VL041207.D

Acq: 2 May 2024 22:47

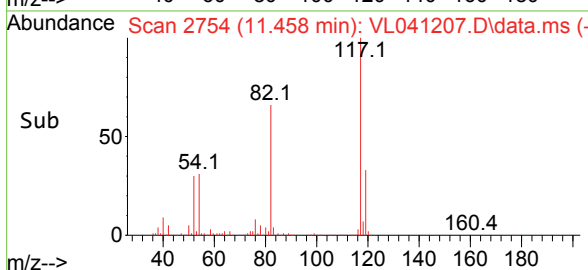
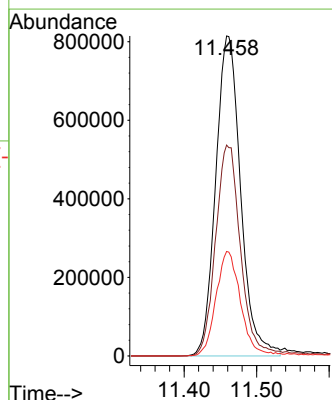
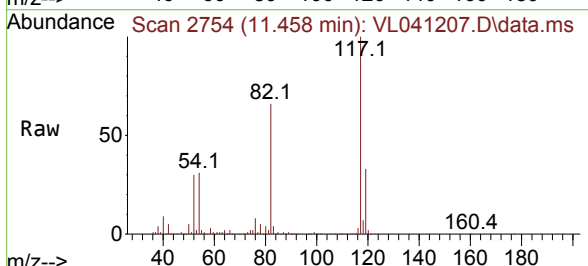
Tgt Ion: 117 Resp: 1946949

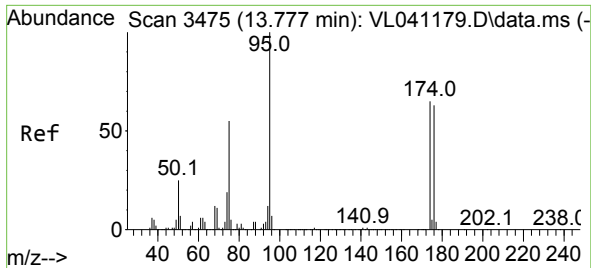
Ion Ratio Lower Upper

117 100

82 67.9 53.6 80.4

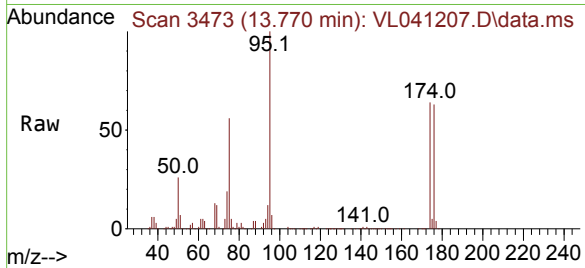
119 33.3 27.2 40.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.987 ppbv
 RT: 13.770 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL041207.D
 Acq: 2 May 2024 22:47

Instrument :
 MSVOA_L
 ClientSampleId :
 BA-20-AA01-20240425



Tgt Ion: 95 Resp: 1467888

Ion	Ratio	Lower	Upper
95	100		
174	68.8	53.6	80.4
175	5.1	4.2	6.4

