

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082224\
 Data File : VL041584.D
 Acq On : 22 Aug 2024 12:53
 Operator : SY/MD
 Sample : P3710-02DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 23 01:31:16 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 23 01:15:26 2024
 Response via : Initial Calibration

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

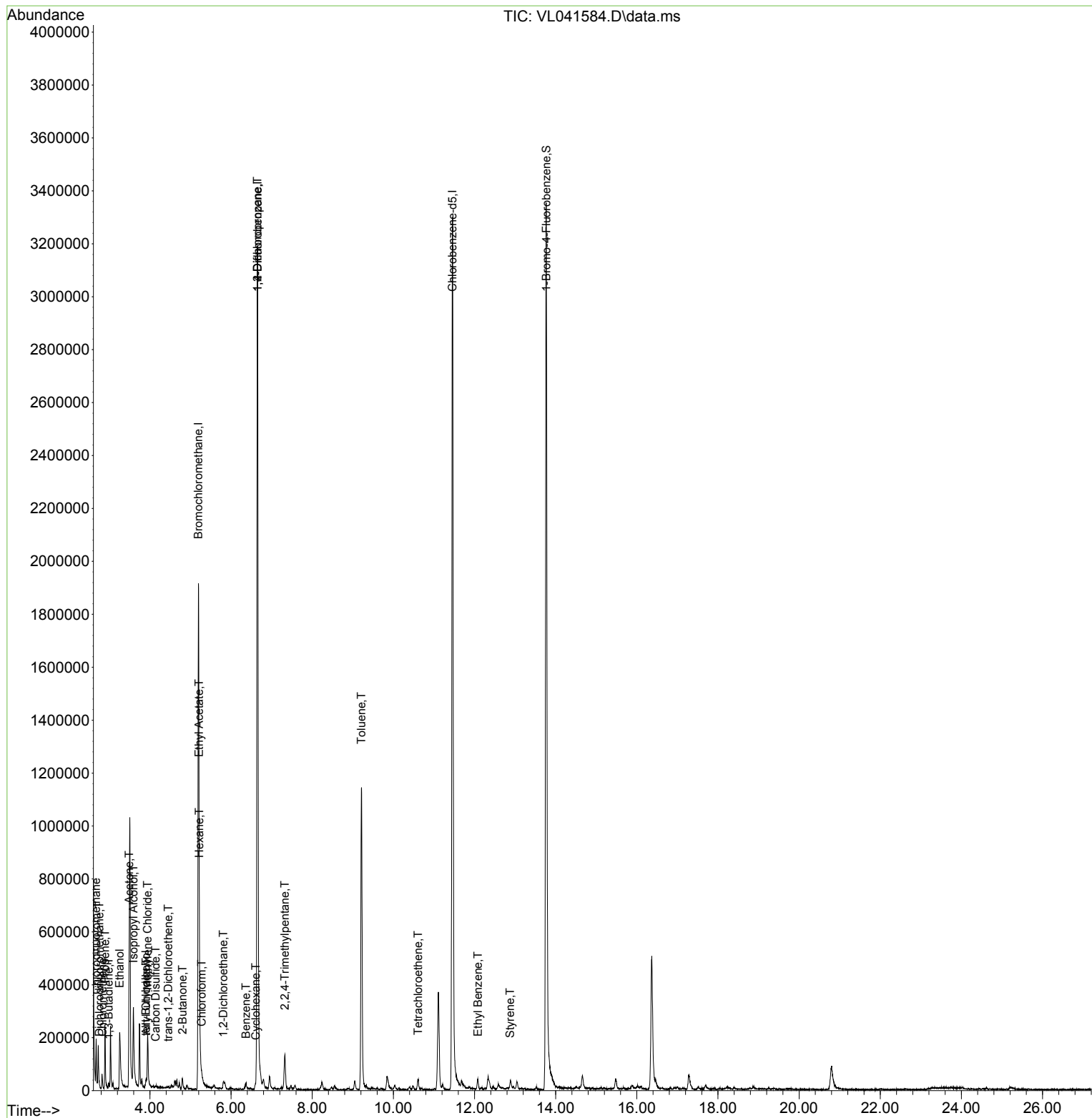
Internal Standards						
1) Bromochloromethane	5.195	49	926187	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2447644	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2237155	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1688008	9.805	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.751	85	8385	0.053	ppbv	91
3) Chlorodifluoromethane	2.674	51	101948	0.925	ppbv #	62
4) Chloromethane	2.832	50	6804	0.116	ppbv	98
9) Propene	2.893	41	54883	1.084	ppbv	93
13) Ethanol	3.253	45	252319	55.736	ppbv	88
15) Acetone	3.488	43	331417	3.149	ppbv #	78
16) 1,3-Butadiene	2.980	39	5601	0.100	ppbv #	41
17) tert-Butyl alcohol	3.899	59	12677	0.132	ppbv #	72
19) Isopropyl Alcohol	3.594	45	313865	5.102	ppbv #	98
20) Methylene Chloride	3.944	84	66083	1.684	ppbv	97
21) Allyl Chloride	3.903	41	6063	0.088	ppbv #	79
22) trans-1,2-Dichloroethene	4.452	96	1652	0.038	ppbv #	60
25) Ethyl Acetate	5.211	43	217669	1.041	ppbv #	81
26) Hexane	5.218	57	42837	0.494	ppbv #	1
27) Carbon Disulfide	4.140	76	4523	0.045	ppbv #	63
29) Chloroform	5.275	83	6909	0.049	ppbv	84
30) Cyclohexane	6.607	84	3322	0.047	ppbv #	1
34) 2-Butanone	4.803	43	47101	0.398	ppbv	93
36) Benzene	6.369	78	7053	0.039	ppbv #	89
37) 1,2-Dichloroethane	5.809	62	5045	0.050	ppbv #	70
39) 1,2-Dichloropropane	6.648	63	601884	8.790	ppbv #	24
44) 2,2,4-Trimethylpentane	7.327	57	108516	0.363	ppbv #	86
52) Tetrachloroethene	10.610	164	3923	0.057	ppbv #	73
53) Toluene	9.211	91	899956	4.518	ppbv	98
58) Ethyl Benzene	12.082	91	28924	0.112	ppbv	91
61) Styrene	12.880	104	7251	0.076	ppbv #	1

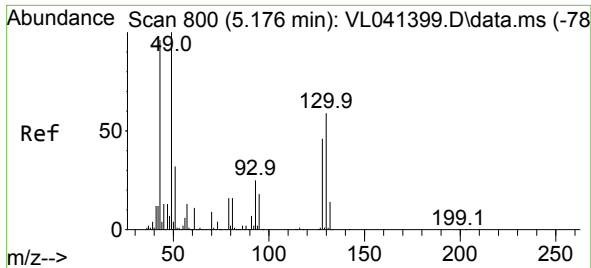
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Aug 23 01:31:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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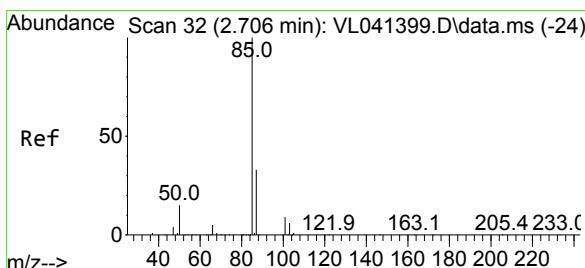
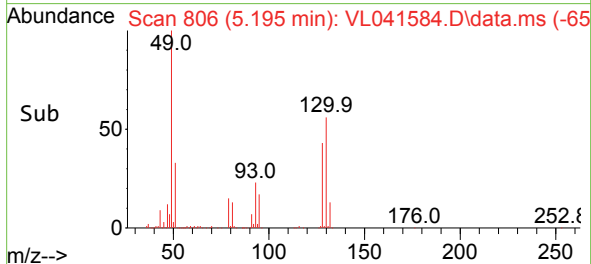
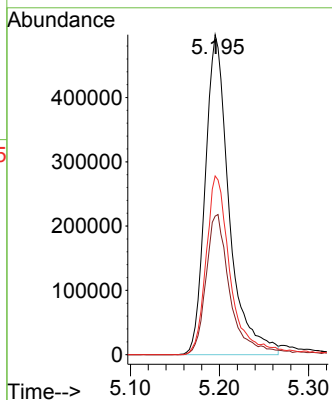
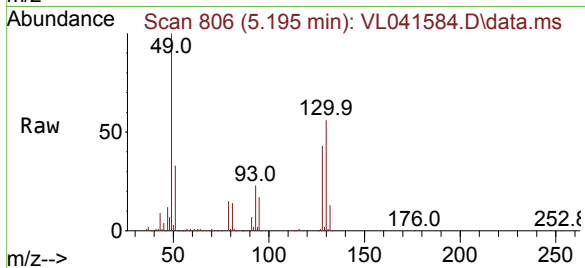




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VL041584.D
 Acq: 22 Aug 2024 12:53

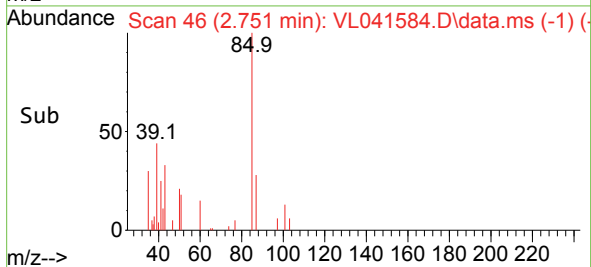
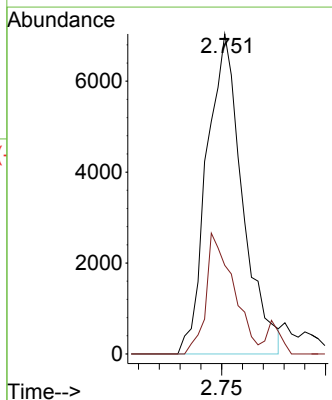
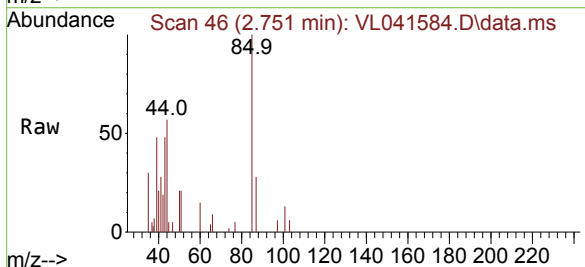
Instrument :
 MSVOA_L
 ClientSampleId :

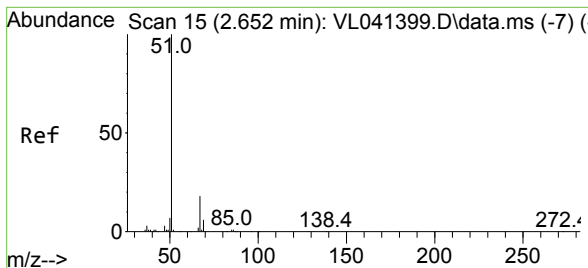
Tgt Ion: 49 Resp: 926187
 Ion Ratio Lower Upper
 49 100
 128 45.4 23.8 71.4
 130 59.0 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.053 ppbv
 RT: 2.751 min Scan# 46
 Delta R.T. 0.007 min
 Lab File: VL041584.D
 Acq: 22 Aug 2024 12:53

Tgt Ion: 85 Resp: 8385
 Ion Ratio Lower Upper
 85 100
 87 27.7 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.925 ppbv

RT: 2.674 min Scan# 21

Delta R.T. -0.016 min

Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Instrument :

MSVOA_L

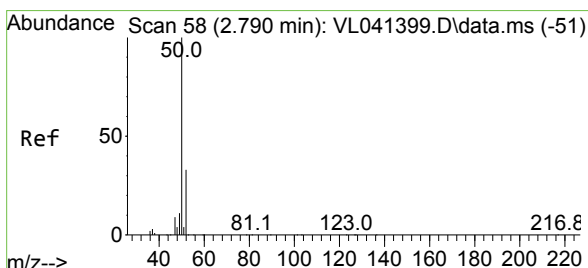
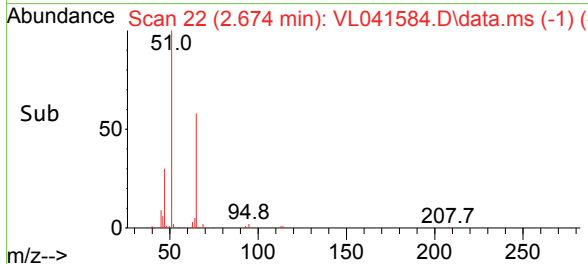
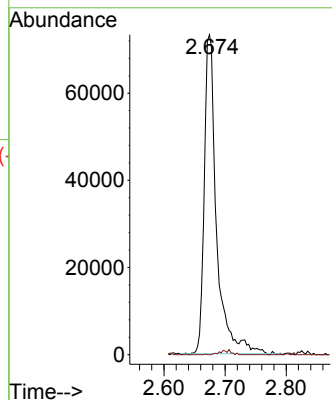
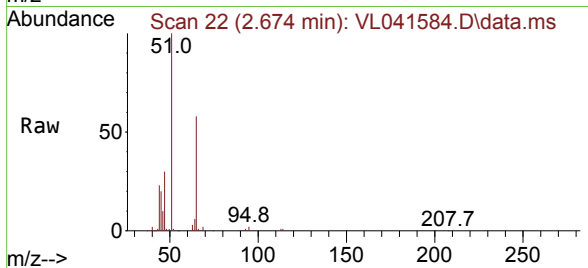
ClientSampleId :

Tgt Ion: 51 Resp: 101948

Ion Ratio Lower Upper

51 100

67 1.3 14.5 21.7#



#4

Chloromethane

Concen: 0.116 ppbv

RT: 2.832 min Scan# 71

Delta R.T. 0.007 min

Lab File: VL041584.D

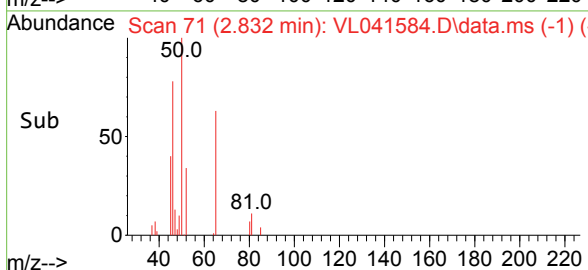
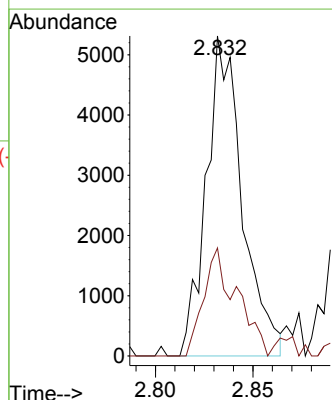
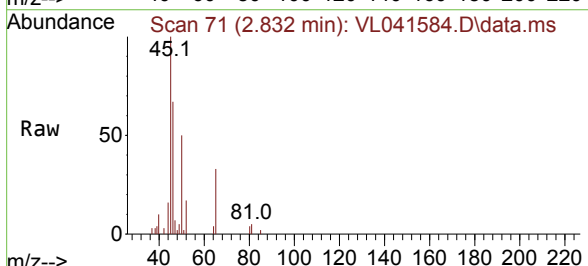
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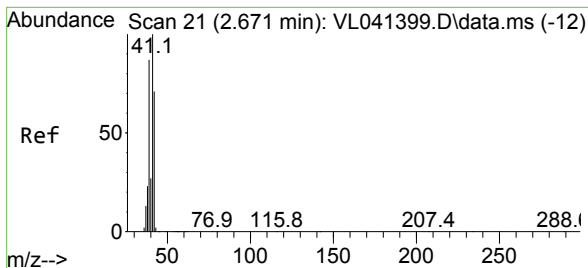
Tgt Ion: 50 Resp: 6804

Ion Ratio Lower Upper

50 100

52 33.8 26.1 39.1





#9

Propene

Concen: 1.084 ppbv

RT: 2.893 min Scan# 90

Delta R.T. 0.183 min

Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Instrument :

MSVOA_L

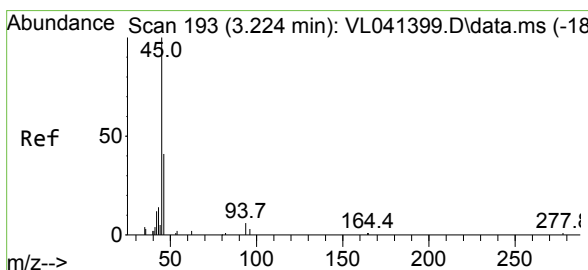
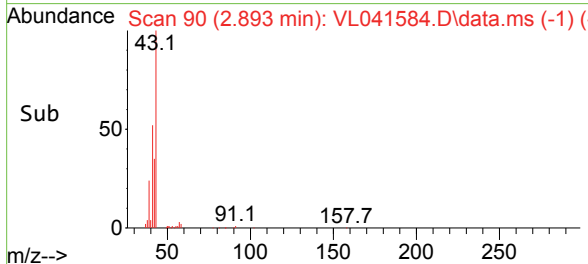
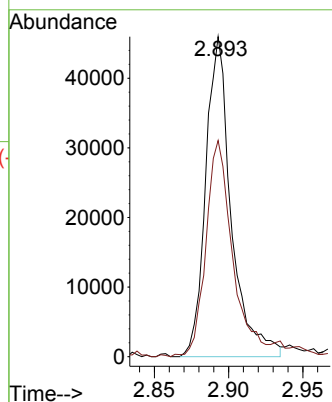
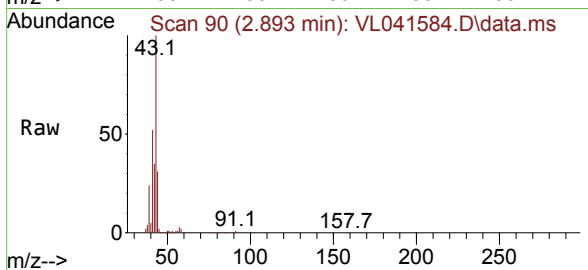
ClientSampleId :

Tgt Ion: 41 Resp: 54883

Ion Ratio Lower Upper

41 100

42 75.3 55.9 83.9



#13

Ethanol

Concen: 55.736 ppbv

RT: 3.253 min Scan# 202

Delta R.T. -0.010 min

Lab File: VL041584.D

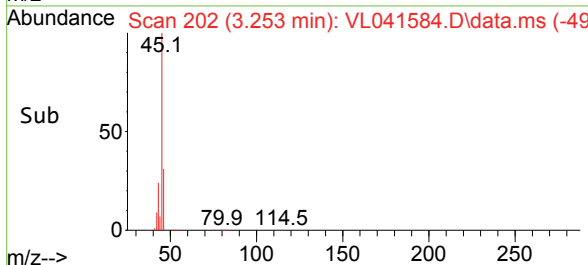
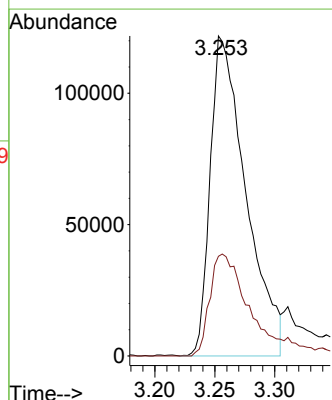
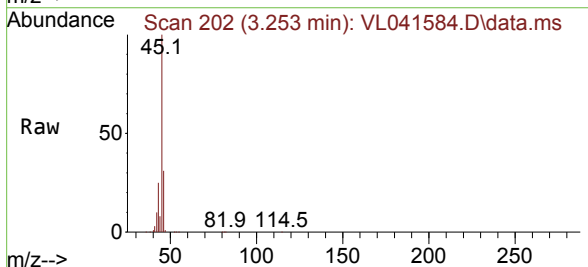
Acq: 22 Aug 2024 12:53

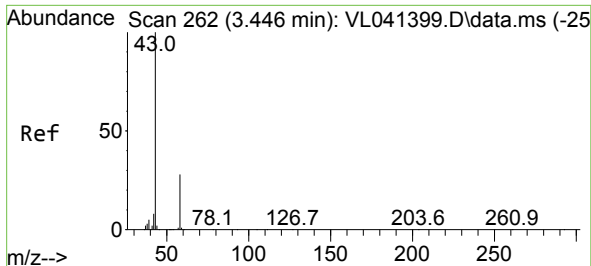
Tgt Ion: 45 Resp: 252319

Ion Ratio Lower Upper

45 100

46 40.2 13.4 53.4

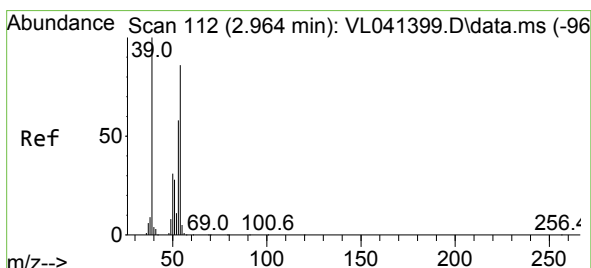
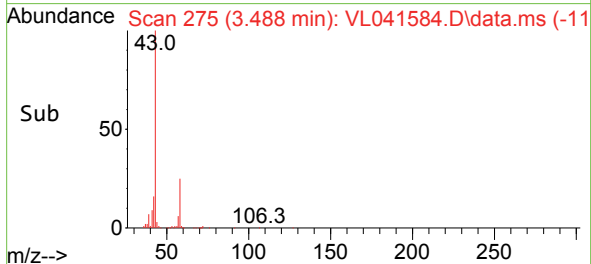
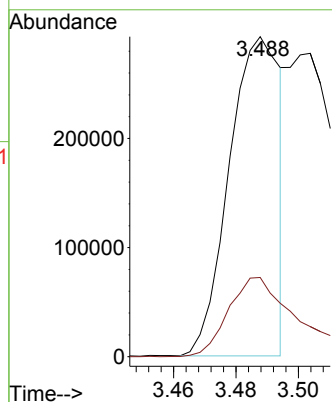
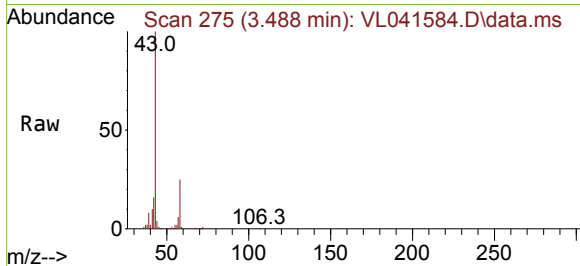




#15
Acetone
Concen: 3.149 ppbv
RT: 3.488 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

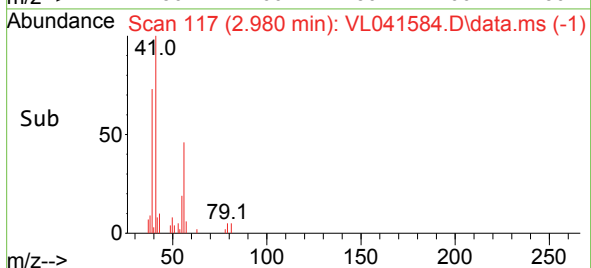
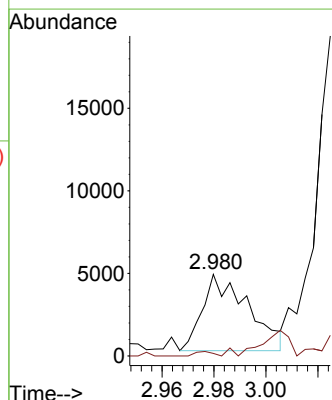
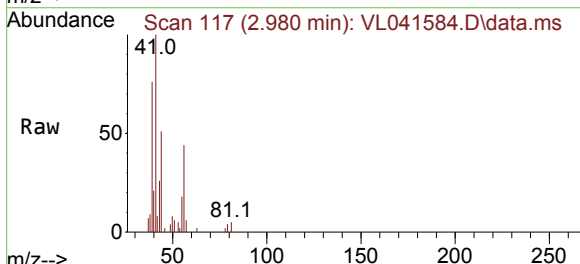
Instrument :
MSVOA_L
ClientSampleId :

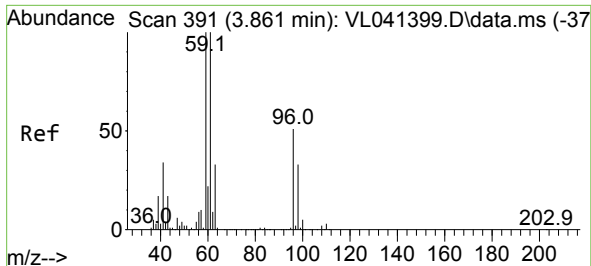
Tgt Ion: 43 Resp: 331417
Ion Ratio Lower Upper
43 100
58 38.4 21.4 32.2#



#16
1,3-Butadiene
Concen: 0.100 ppbv
RT: 2.980 min Scan# 117
Delta R.T. -0.016 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

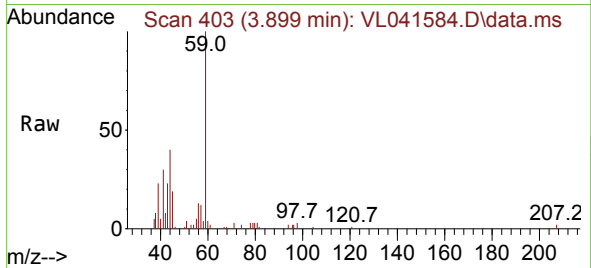
Tgt Ion: 39 Resp: 5601
Ion Ratio Lower Upper
39 100
54 26.9 62.5 93.7#



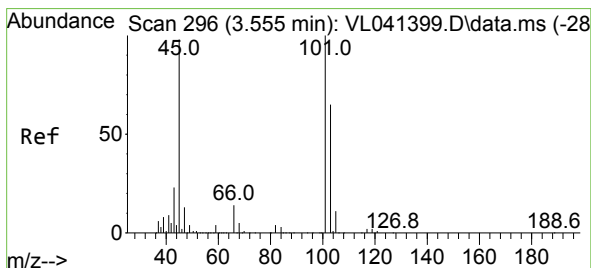
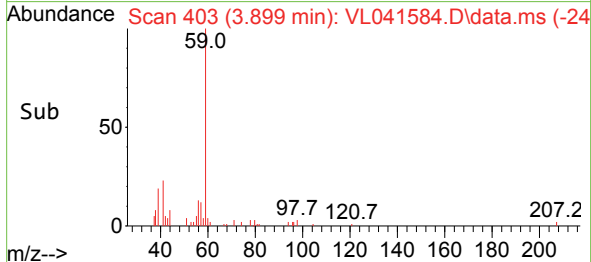
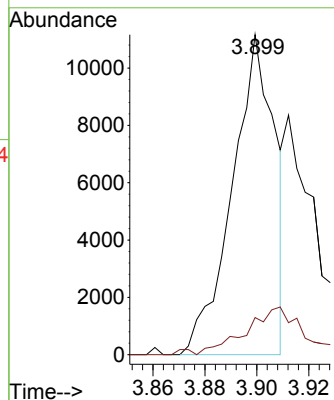


#17
tert-Butyl alcohol
Concen: 0.132 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.016 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

Instrument :
MSVOA_L
ClientSampleId :

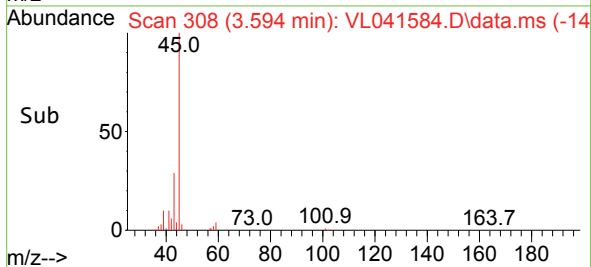
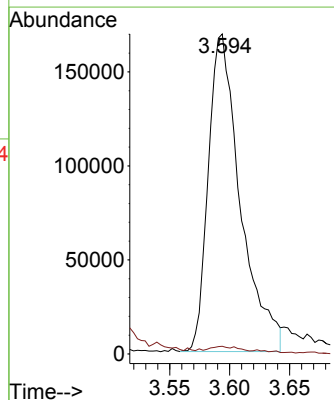
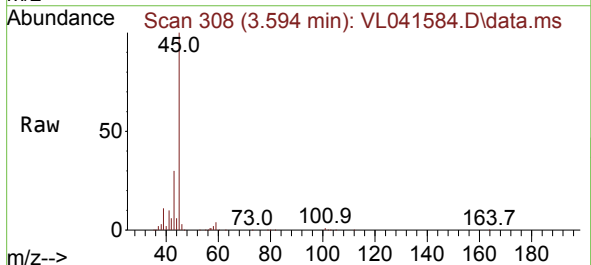


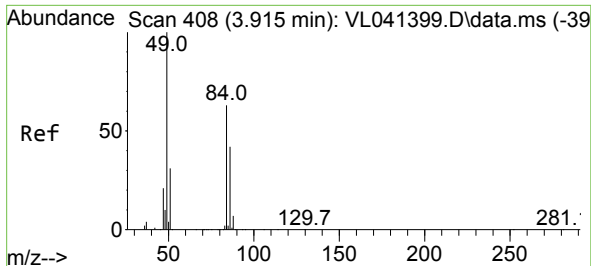
Tgt Ion: 59 Resp: 12677
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#19
Isopropyl Alcohol
Concen: 5.102 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.010 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

Tgt Ion: 45 Resp: 313865
Ion Ratio Lower Upper
45 100
58 3.2 1.9 2.9#

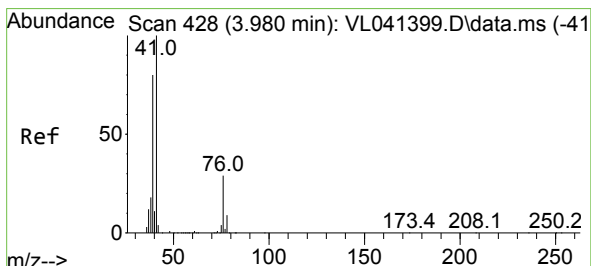
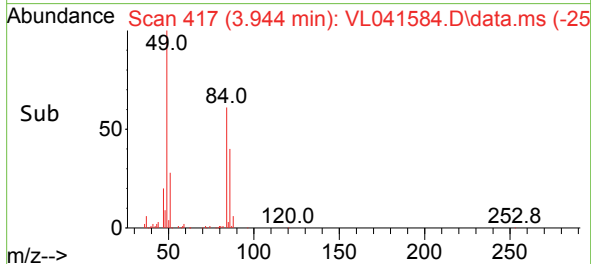
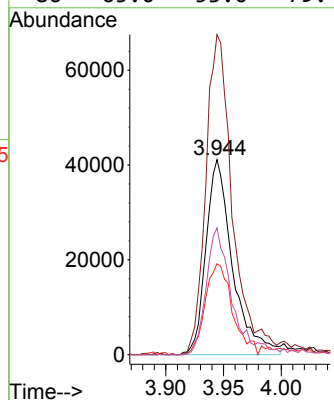
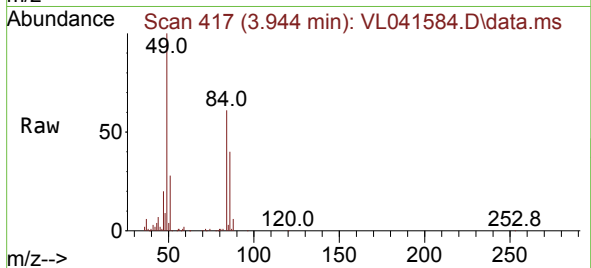




#20
Methylene Chloride
Concen: 1.684 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.007 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

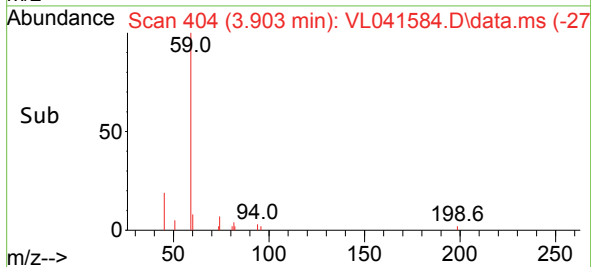
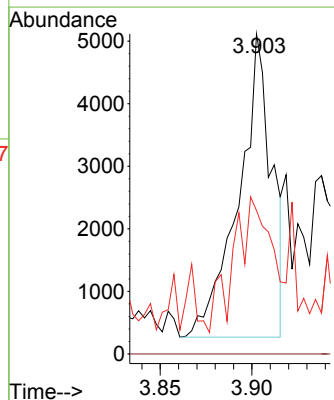
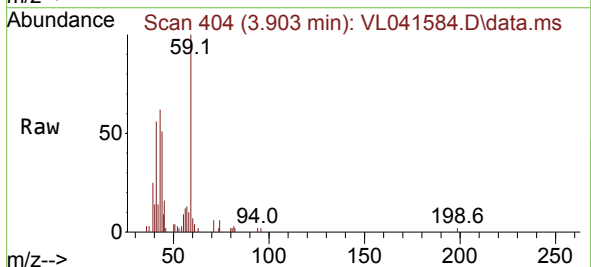
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ClientSampleId :

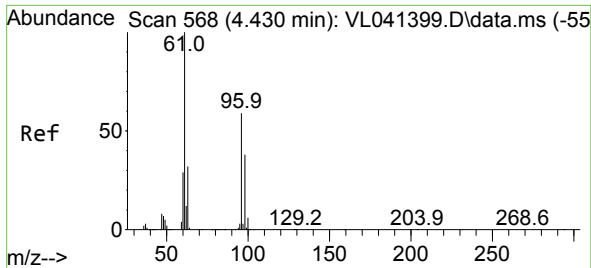
Tgt Ion: 84 Resp: 66083
Ion Ratio Lower Upper
84 100
49 164.0 126.6 190.0
51 46.6 38.6 58.0
86 65.0 53.0 79.4



#21
Allyl Chloride
Concen: 0.088 ppbv
RT: 3.903 min Scan# 404
Delta R.T. -0.100 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

Tgt Ion: 41 Resp: 6063
Ion Ratio Lower Upper
41 100
76 0.0 23.7 35.5#
39 88.5 64.3 96.5

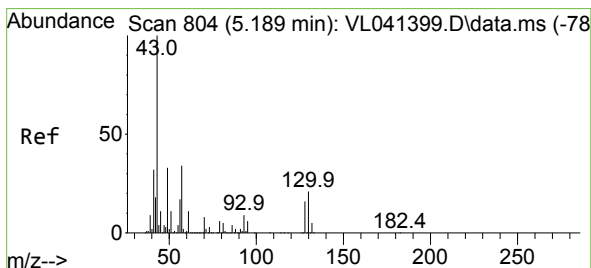
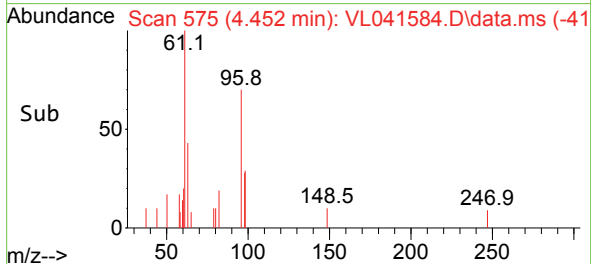
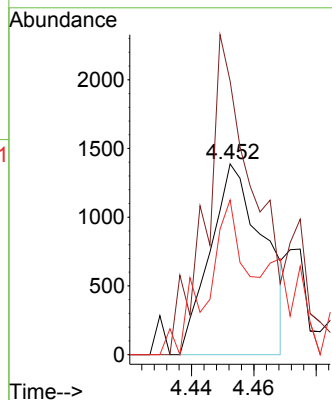
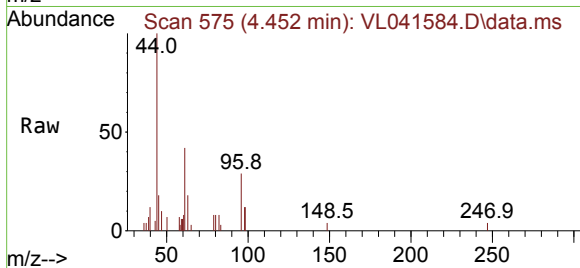




#22
trans-1,2-Dichloroethene
Concen: 0.038 ppbv
RT: 4.452 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

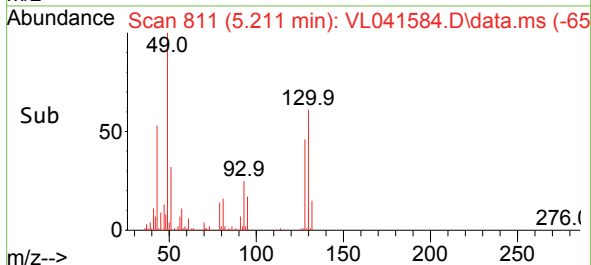
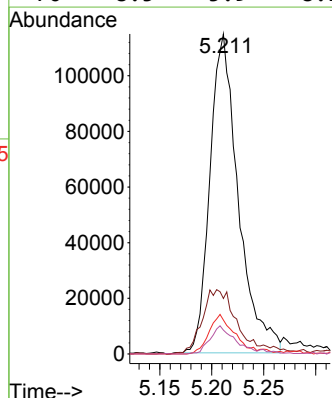
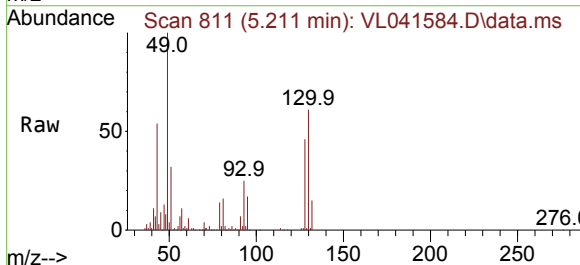
Instrument :
MSVOA_L
ClientSampleId :

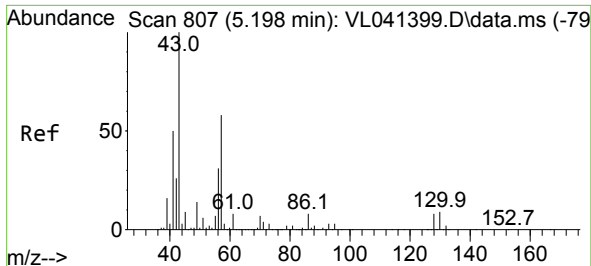
Tgt Ion: 96 Resp: 1652
Ion Ratio Lower Upper
96 100
61 106.3 135.4 203.2#
98 81.1 51.0 76.4#



#25
Ethyl Acetate
Concen: 1.041 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

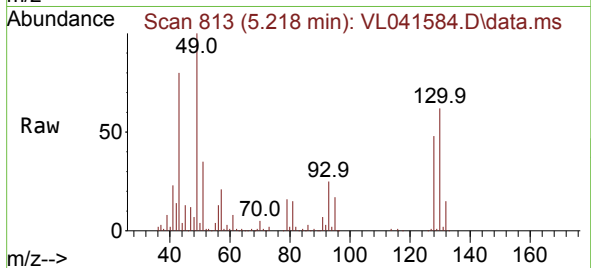
Tgt Ion: 43 Resp: 217669
Ion Ratio Lower Upper
43 100
45 26.1 8.5 12.7#
61 12.3 8.0 12.0#
70 8.5 5.9 8.9



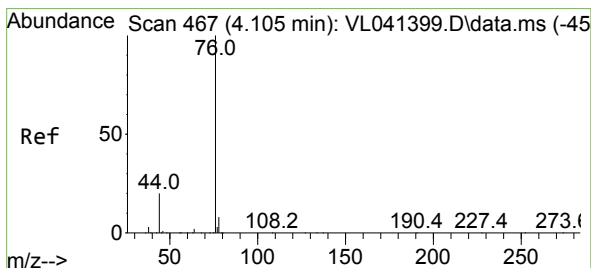
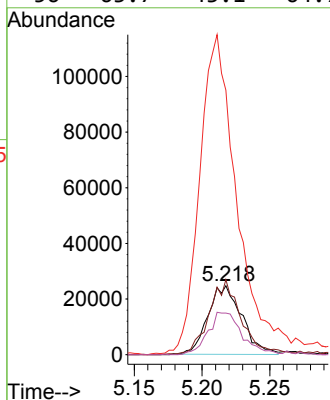
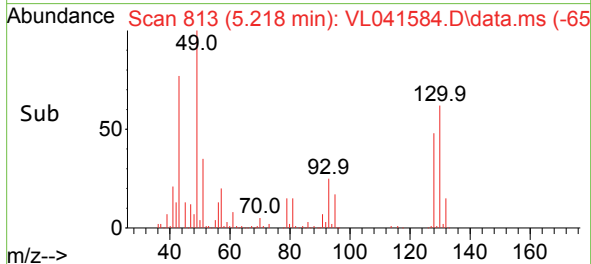


#26
Hexane
Concen: 0.494 ppbv
RT: 5.218 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

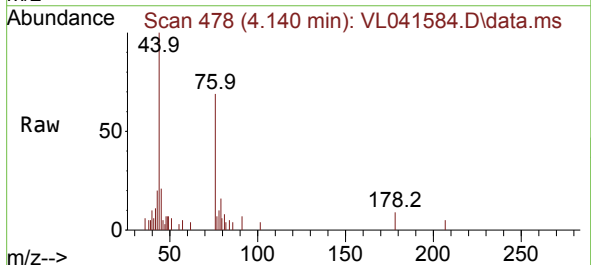
Instrument :
MSVOA_L
ClientSampleId :



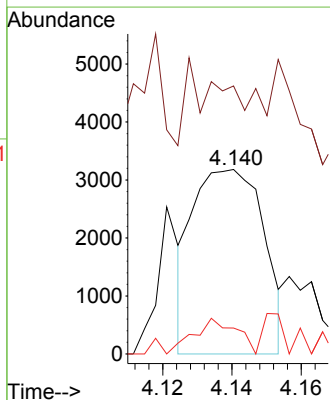
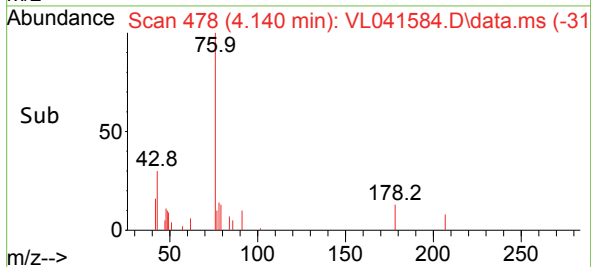
Tgt Ion: 57 Resp: 42837
Ion Ratio Lower Upper
57 100
41 105.2 74.0 111.0
43 537.3 193.6 290.4#
56 63.7 43.1 64.7

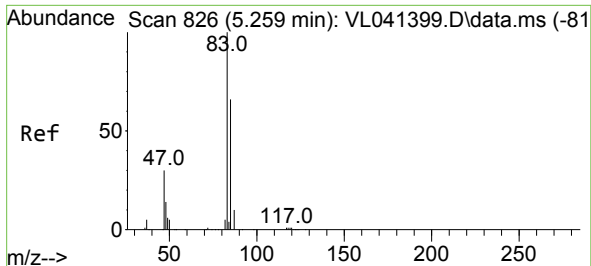


#27
Carbon Disulfide
Concen: 0.045 ppbv
RT: 4.140 min Scan# 478
Delta R.T. 0.010 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53



Tgt Ion: 76 Resp: 4523
Ion Ratio Lower Upper
76 100
44 0.0 15.6 23.4#
78 0.0 7.7 11.5#





#29

Chloroform

Concen: 0.049 ppbv

RT: 5.275 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Instrument :

MSVOA_L

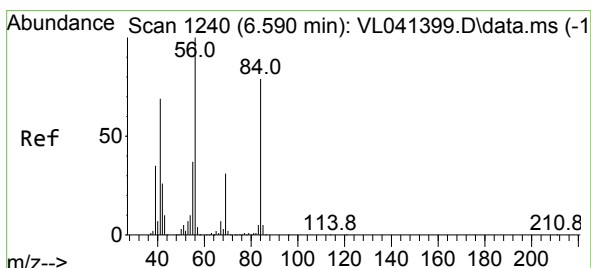
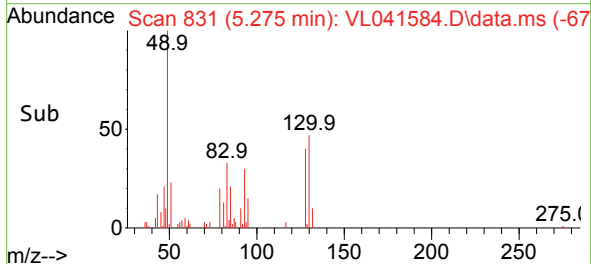
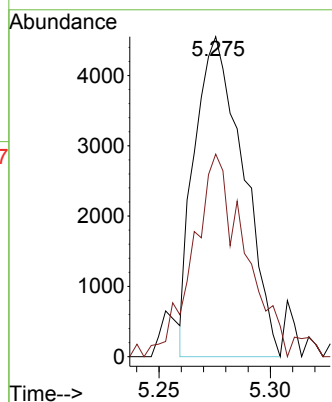
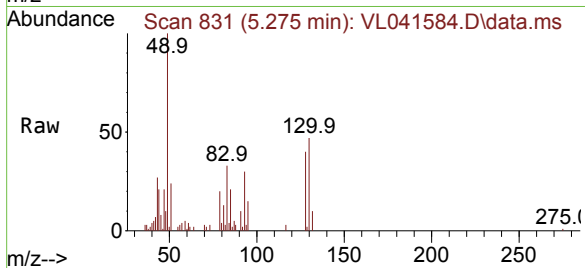
ClientSampleId :

Tgt Ion: 83 Resp: 6909

Ion Ratio Lower Upper

83 100

85 53.7 53.1 79.7



#30

Cyclohexane

Concen: 0.047 ppbv

RT: 6.607 min Scan# 1245

Delta R.T. 0.010 min

Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

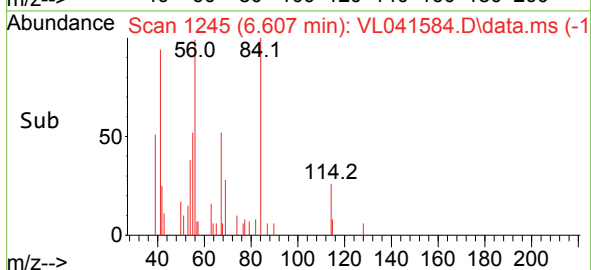
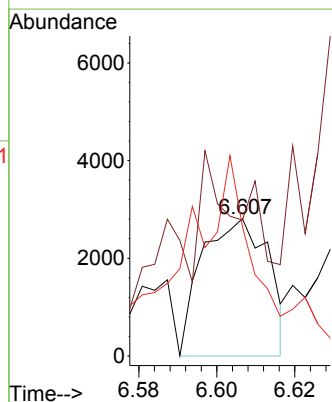
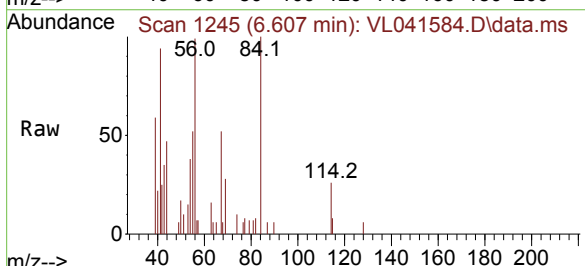
Tgt Ion: 84 Resp: 3322

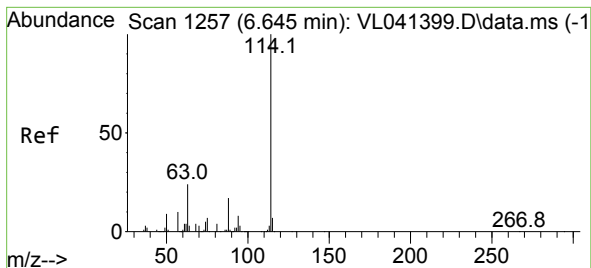
Ion Ratio Lower Upper

84 100

56 0.0 111.2 166.8#

41 190.3 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 114

Delta R.T. 0.003 min

Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Instrument :

MSVOA_L

ClientSampleId :

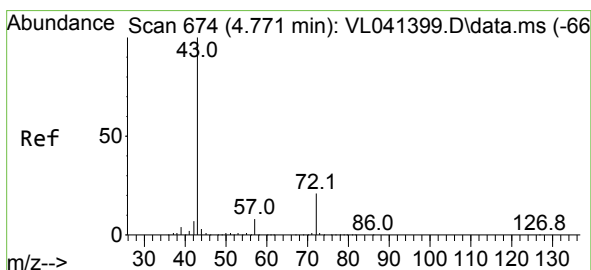
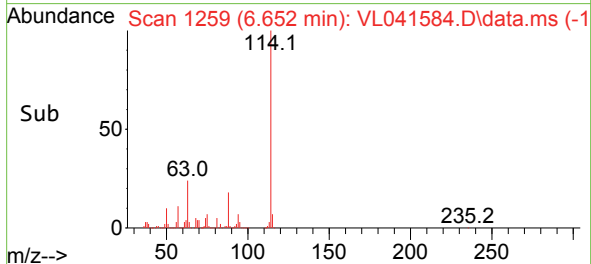
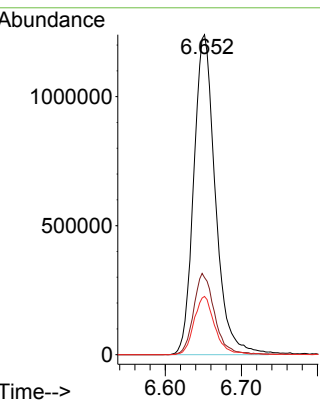
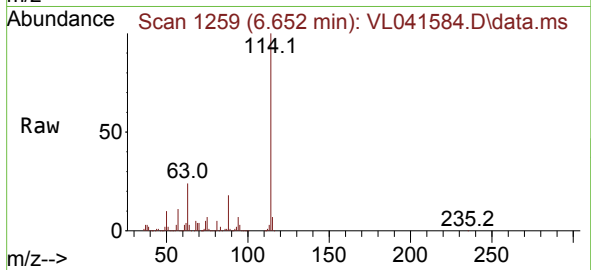
Tgt Ion:114 Resp: 2447644

Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 17.7 14.3 21.5



#34

2-Butanone

Concen: 0.398 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.016 min

Lab File: VL041584.D

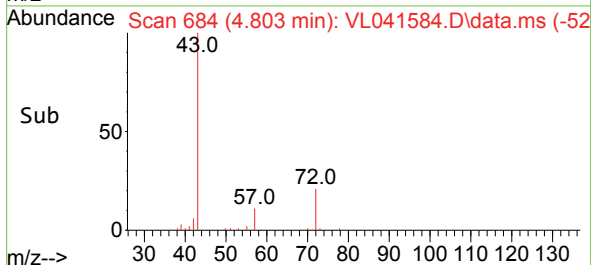
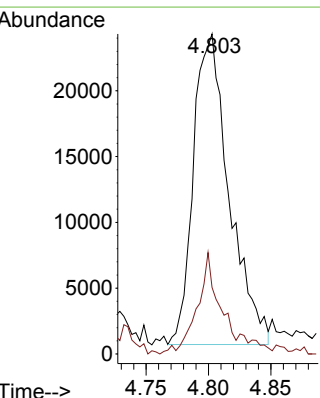
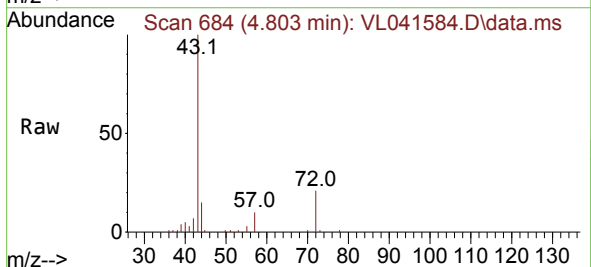
Acq: 22 Aug 2024 12:53

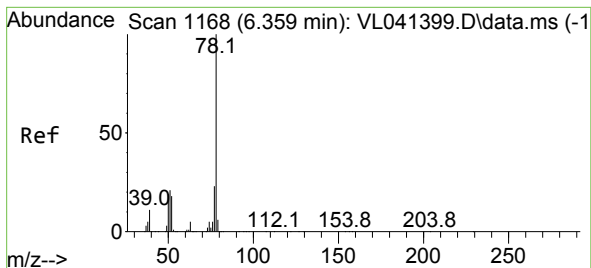
Tgt Ion: 43 Resp: 47101

Ion Ratio Lower Upper

43 100

72 24.8 17.3 25.9





#36

Benzene

Concen: 0.039 ppbv

RT: 6.369 min Scan# 1168

Delta R.T. 0.000 min

Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Instrument :

MSVOA_L

ClientSampleId :

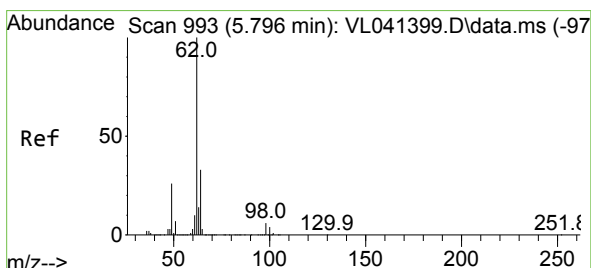
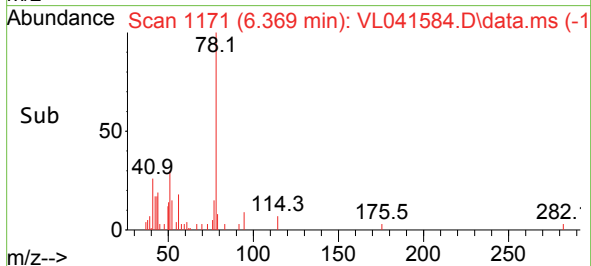
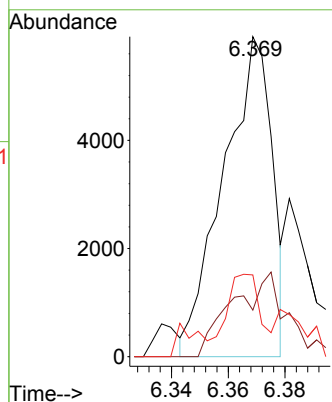
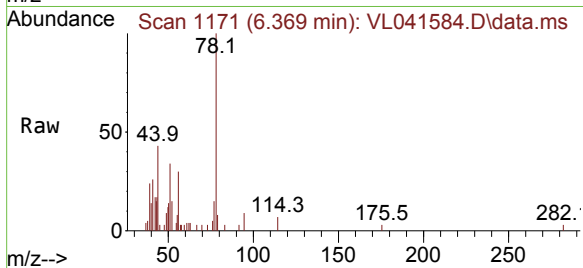
Tgt Ion: 78 Resp: 7053

Ion Ratio Lower Upper

78 100

77 15.5 18.1 27.1#

50 16.0 15.5 23.3



#37

1,2-Dichloroethane

Concen: 0.050 ppbv

RT: 5.809 min Scan# 997

Delta R.T. 0.003 min

Lab File: VL041584.D

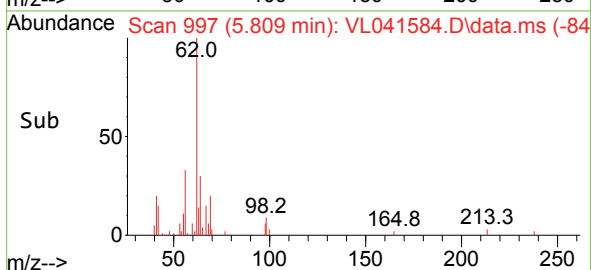
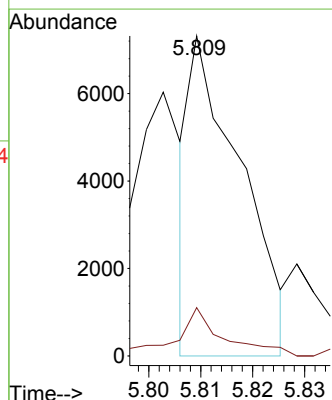
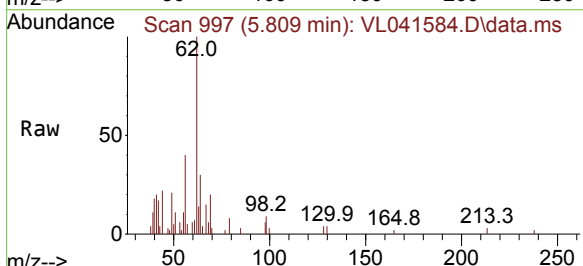
Acq: 22 Aug 2024 12:53

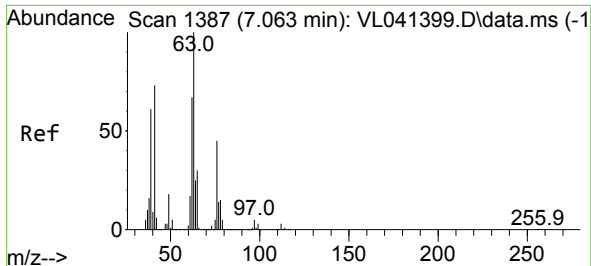
Tgt Ion: 62 Resp: 5045

Ion Ratio Lower Upper

62 100

98 16.5 5.0 7.4#





#39

1,2-Dichloropropane

Concen: 8.790 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.421 min

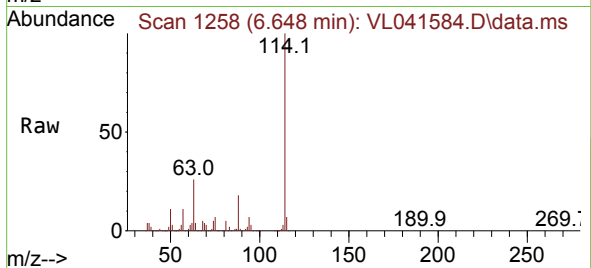
Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Instrument :

MSVOA_L

ClientSampleId :



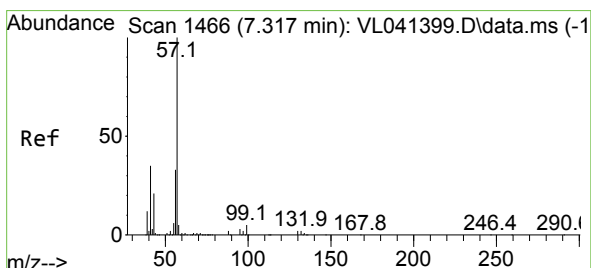
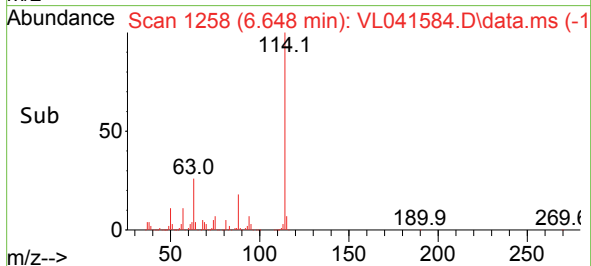
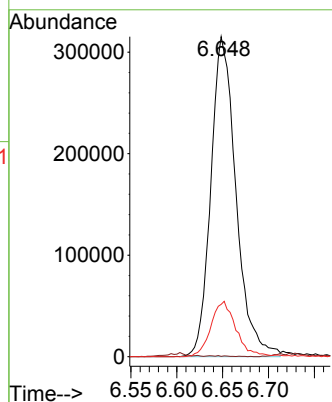
Tgt Ion: 63 Resp: 601884

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 16.3 53.9 80.9#



#44

2,2,4-Trimethylpentane

Concen: 0.363 ppbv

RT: 7.327 min Scan# 1469

Delta R.T. 0.007 min

Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

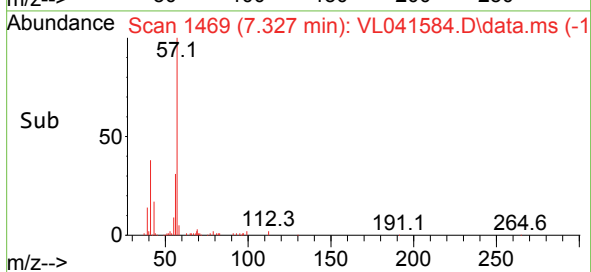
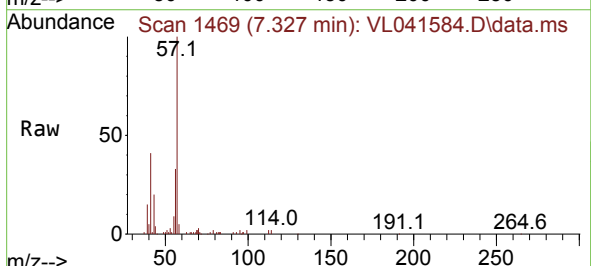
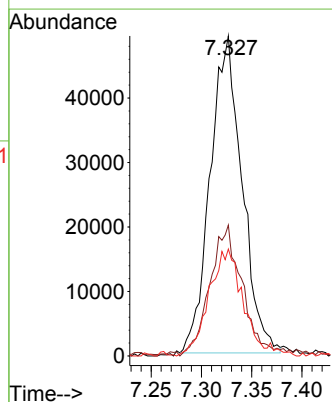
Tgt Ion: 57 Resp: 108516

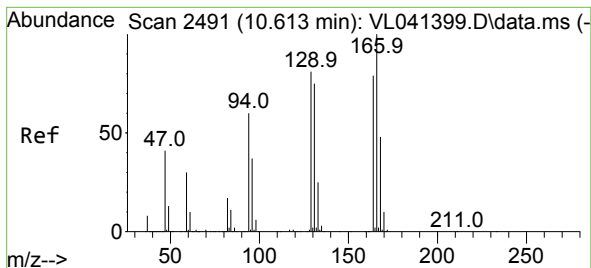
Ion Ratio Lower Upper

57 100

41 43.8 27.0 40.6#

56 37.1 25.2 37.8





#52

Tetrachloroethene

Concen: 0.057 ppbv

RT: 10.610 min Scan# 2491

Delta R.T. 0.003 min

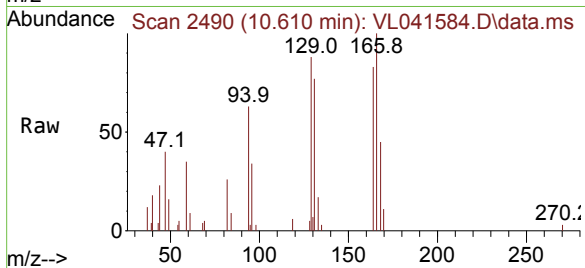
Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 3923

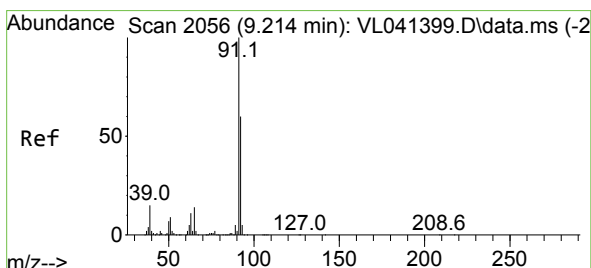
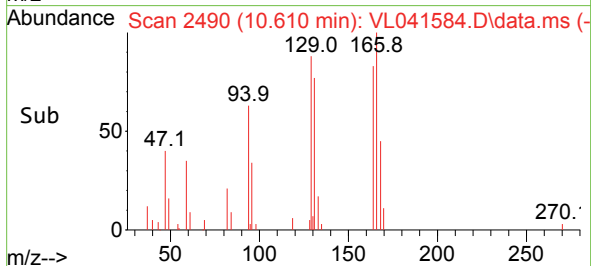
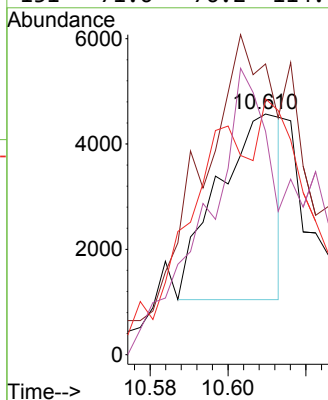
Ion Ratio Lower Upper

164 100

166 96.3 101.1 151.7#

129 71.4 81.7 122.5#

131 71.6 76.2 114.4#



#53

Toluene

Concen: 4.518 ppbv

RT: 9.211 min Scan# 2055

Delta R.T. 0.000 min

Lab File: VL041584.D

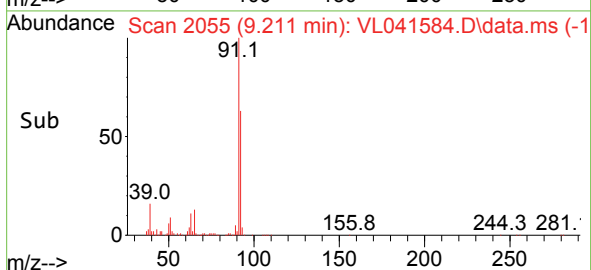
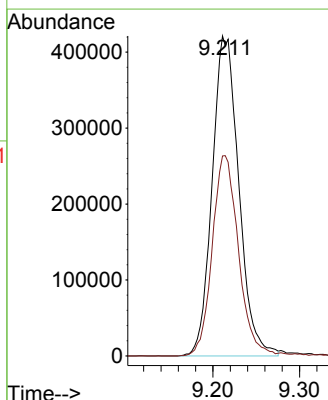
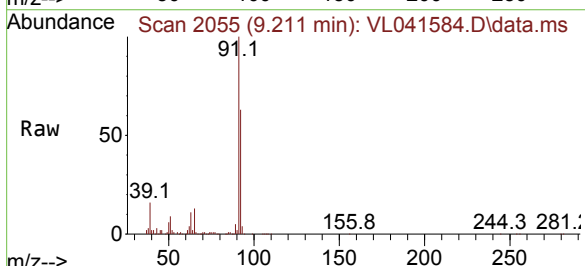
Acq: 22 Aug 2024 12:53

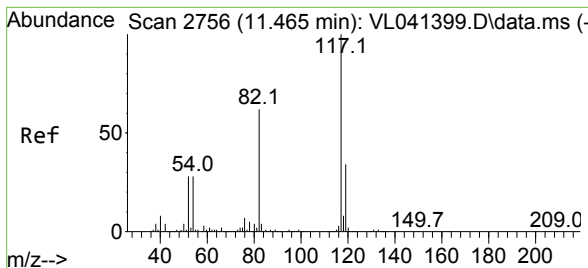
Tgt Ion: 91 Resp: 899956

Ion Ratio Lower Upper

91 100

92 62.5 48.7 73.1

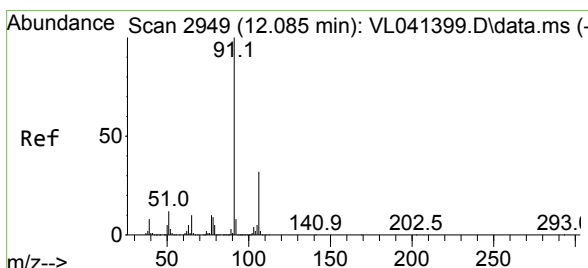
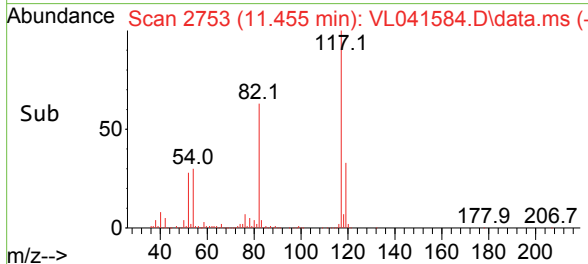
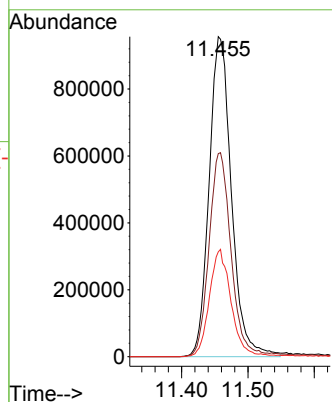
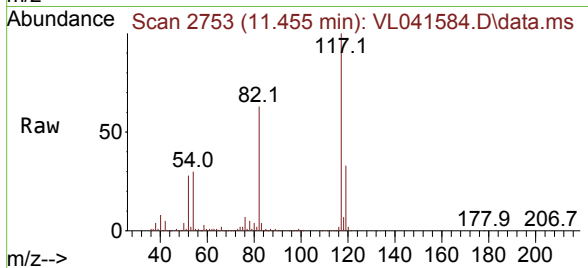




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

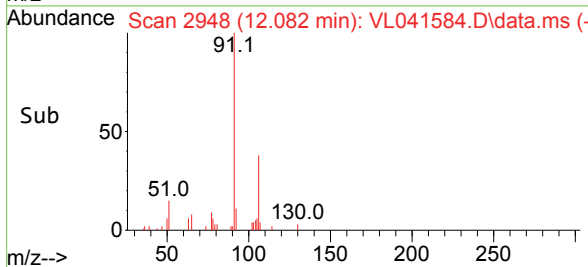
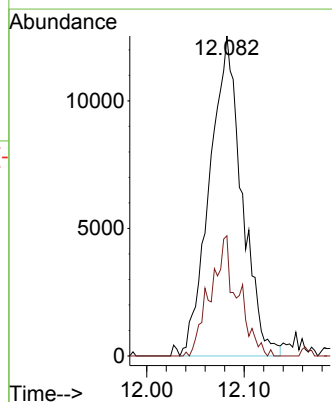
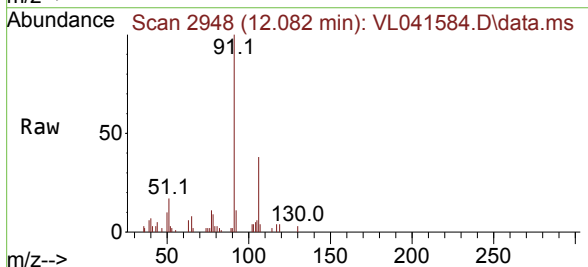
Instrument :
MSVOA_L
ClientSampleId :

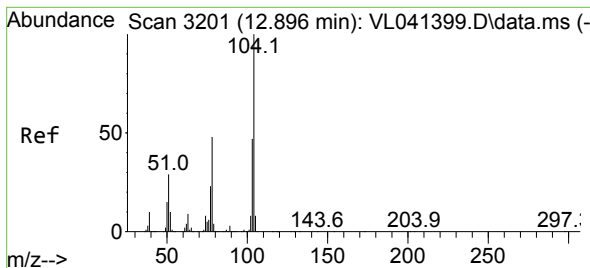
Tgt Ion:117 Resp: 2237155
Ion Ratio Lower Upper
117 100
82 64.3 51.0 76.6
119 33.0 45.2 67.8#



#58
Ethyl Benzene
Concen: 0.112 ppbv
RT: 12.082 min Scan# 2948
Delta R.T. 0.007 min
Lab File: VL041584.D
Acq: 22 Aug 2024 12:53

Tgt Ion: 91 Resp: 28924
Ion Ratio Lower Upper
91 100
106 37.5 25.8 38.8





#61

Styrene

Concen: 0.076 ppbv

RT: 12.880 min Scan# 3196

Delta R.T. -0.003 min

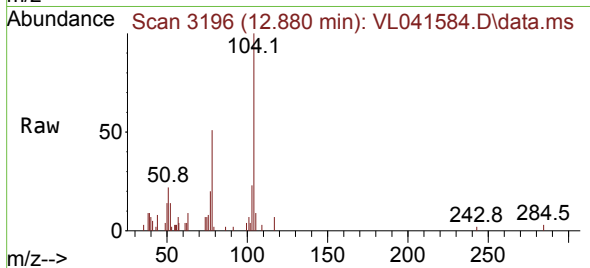
Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Instrument :

MSVOA_L

ClientSampleId :



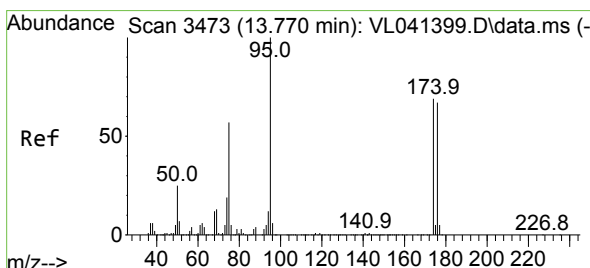
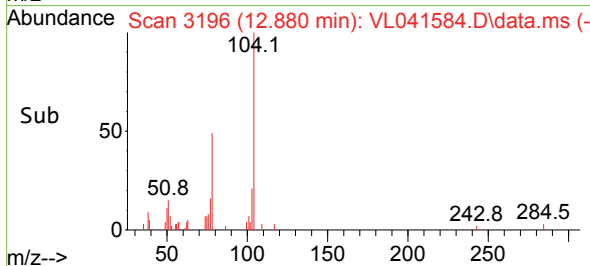
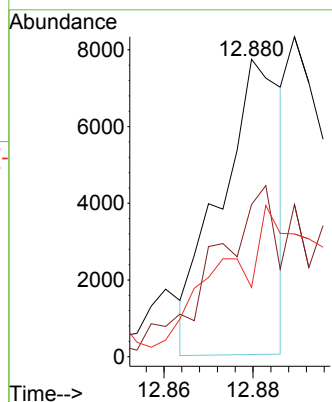
Tgt Ion:104 Resp: 7251

Ion Ratio Lower Upper

104 100

78 142.8 40.8 61.2#

103 131.3 38.2 57.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.805 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.003 min

Lab File: VL041584.D

Acq: 22 Aug 2024 12:53

Tgt Ion: 95 Resp: 1688008

Ion Ratio Lower Upper

95 100

174 71.4 56.3 84.5

175 5.1 4.0 6.0

