

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041403.D
 Acq On : 25 Jul 2024 16:42
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jul 26 02:44:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 25 14:31:18 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.176	49	1207844	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	3343894	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3087423	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	2418801	10.453	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.706	85	23151	0.112	ppbv	93
3) Chlorodifluoromethane	2.652	51	15044	0.072	ppbv	100
4) Chloromethane	2.793	50	8414	0.106	ppbv #	81
5) Vinyl Chloride	2.899	62	6804	0.079	ppbv	94
6) Bromomethane	3.099	94	3523	0.129	ppbv #	41
7) Chloroethane	3.176	64	2581	0.091	ppbv #	71
8) Dichlorotetrafluoroethane	2.832	85	19422	0.097	ppbv	99
9) Propene	2.674	41	10367	0.144	ppbv	91
10) Heptane	7.568	43	10455	0.062	ppbv #	84
11) Trichlorofluoromethane	3.542	101	17767	0.089	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.041	101	6798	0.048	ppbv #	12
14) Bromoethene	3.349	108	4791	0.085	ppbv #	65
15) Acetone	3.475	43	30035	0.188	ppbv #	86
16) 1,3-Butadiene	2.960	39	6736	0.089	ppbv	97
18) 1,1-Dichloroethene	3.864	96	5908	0.096	ppbv	80
20) Methylene Chloride	3.909	84	11893	0.205	ppbv #	85
21) Allyl Chloride	3.973	41	8319	0.086	ppbv #	77
22) trans-1,2-Dichloroethene	4.426	96	5052	0.082	ppbv #	57
24) 1,1-Dichloroethane	4.542	63	7849	0.058	ppbv #	94
25) Ethyl Acetate	5.198	43	10605	0.036	ppbv #	64
26) Hexane	5.195	57	7441	0.057	ppbv #	31
27) Carbon Disulfide	4.105	76	4941	0.031	ppbv #	58
28) Methyl tert-Butyl Ether	4.587	73	4403	0.046	ppbv #	52
29) Chloroform	5.253	83	8901	0.044	ppbv	88
31) cis-1,2-Dichloroethene	5.063	61	9470	0.076	ppbv #	84
32) 1,1,1-Trichloroethane	5.989	97	8068	0.038	ppbv #	13
35) Carbon Tetrachloride	6.478	117	11012	0.050	ppbv	97
36) Benzene	6.356	78	12146	0.044	ppbv #	88
37) 1,2-Dichloroethane	5.799	62	10898	0.069	ppbv #	92
38) Trichloroethene	7.278	130	5976	0.050	ppbv #	77
39) 1,2-Dichloropropane	6.639	63	820153	7.669	ppbv #	25
42) Bromodichloromethane	7.233	83	8739	0.039	ppbv #	91
44) 2,2,4-Trimethylpentane	7.317	57	32353	0.069	ppbv #	88
46) cis-1,3-Dichloropropene	8.127	75	5219	0.059	ppbv #	63
47) 1,1,2-Trichloroethane	8.886	97	8018	0.070	ppbv #	64
52) Tetrachloroethene	10.606	164	4145	0.037	ppbv #	78
53) Toluene	9.208	91	10160	0.033	ppbv #	20
54) 1,2-Dibromoethane	10.005	107	5057	0.036	ppbv	87
57) Chlorobenzene	11.513	112	17005	0.070	ppbv #	95
60) o-Xylene	13.050	91	14463	0.043	ppbv	80
62) Isopropylbenzene	14.018	105	15986	0.031	ppbv #	49
67) sec-Butylbenzene	16.635	105	23005	0.035	ppbv	97
71) 2-Chlorotoluene	14.793	91	12614	0.033	ppbv #	34

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Instrument :
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ClientSampleId :

Quant Time: Jul 26 02:44:42 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 25 14:31:18 2024
Response via : Initial Calibration

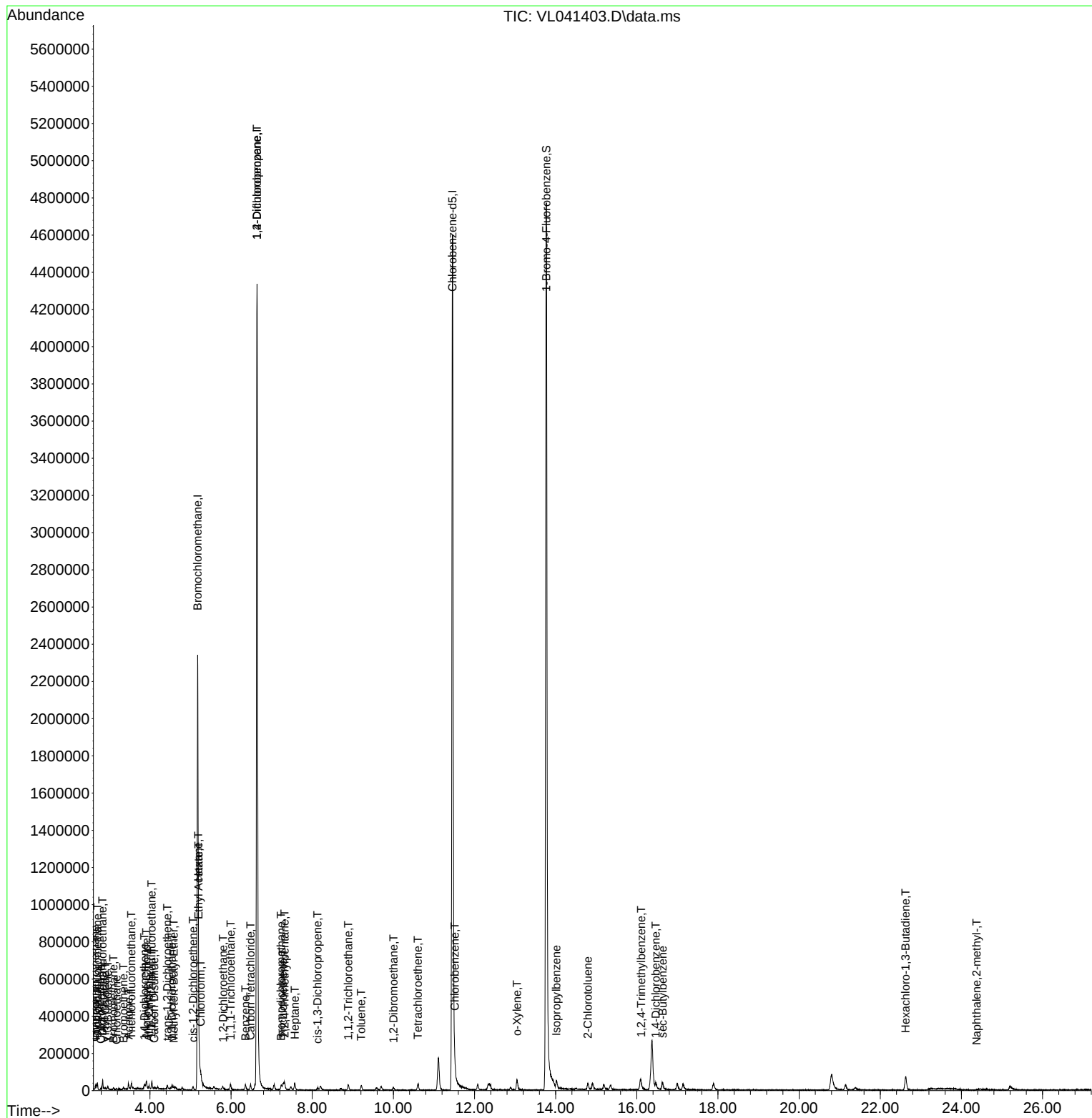
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	16.108	105	13720	0.035	ppbv #	69
76) 1,4-Dichlorobenzene	16.468	146	8711	0.038	ppbv #	15
78) Hexachloro-1,3-Butadiene	22.622	225	6934	0.041	ppbv #	1
80) Naphthalene,2-methyl-	24.377	142	2413	4.398	ppbv #	84

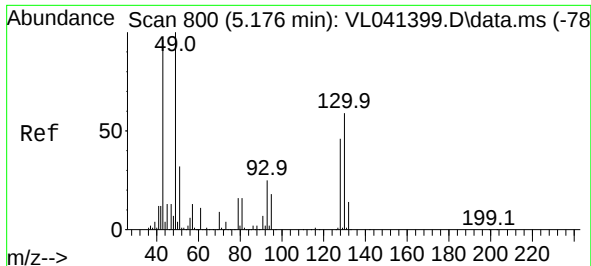
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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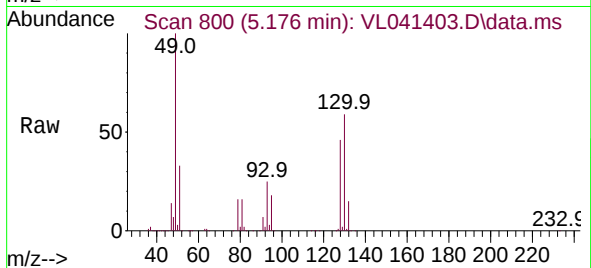
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
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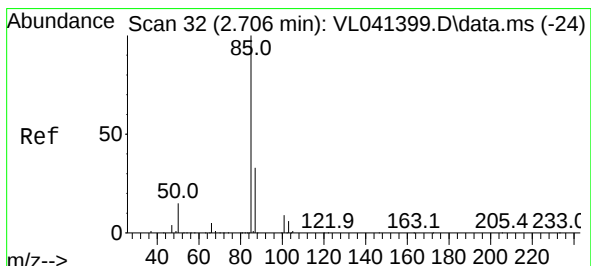
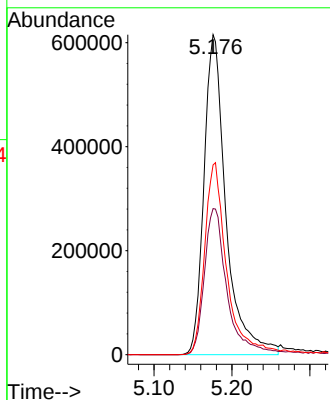
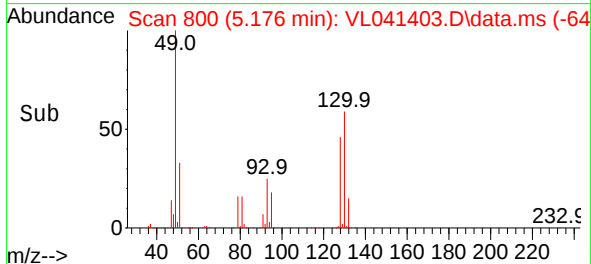


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.176 min Scan# 800
Delta R.T. -0.000 min
Lab File: VL041403.D
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Instrument :
MSVOA_L
ClientSampleId :

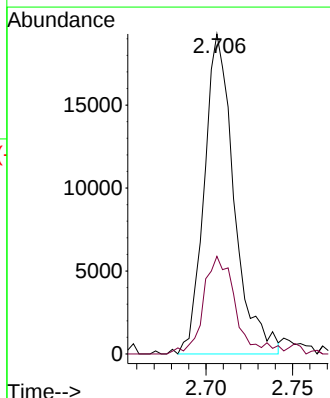
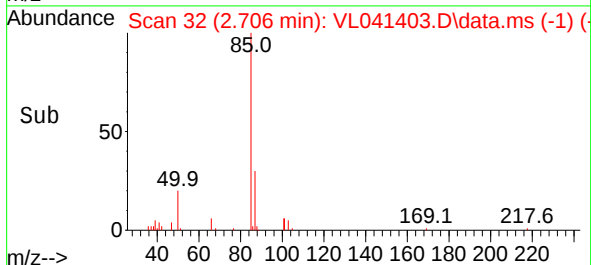
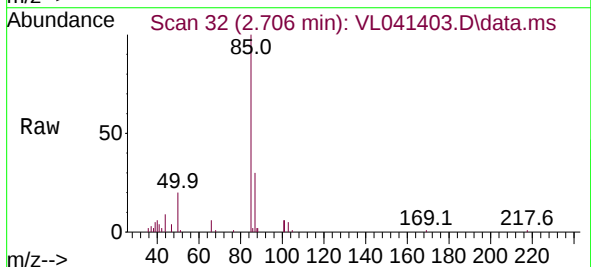


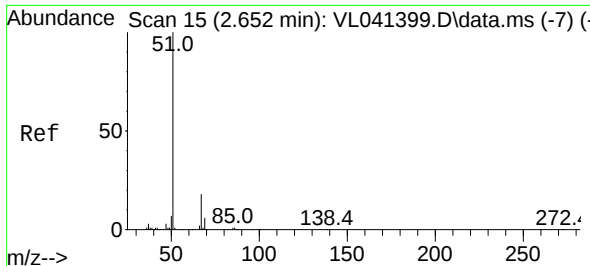
Tgt Ion: 49 Resp: 1207844
Ion Ratio Lower Upper
49 100
128 48.4 23.8 71.4
130 62.3 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.112 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.000 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

Tgt Ion: 85 Resp: 23151
Ion Ratio Lower Upper
85 100
87 28.6 26.0 39.0

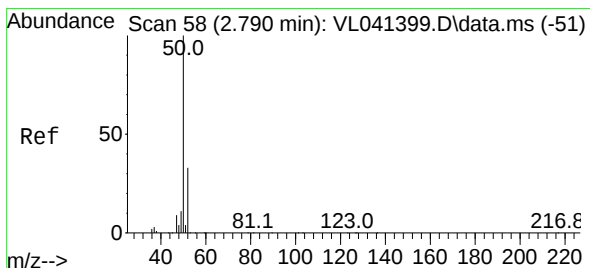
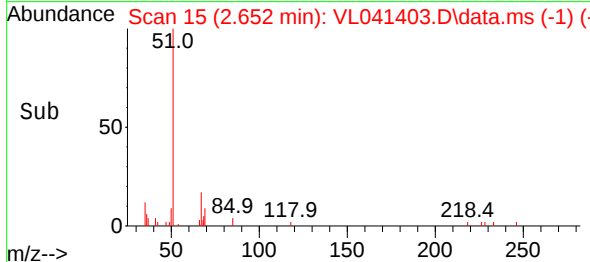
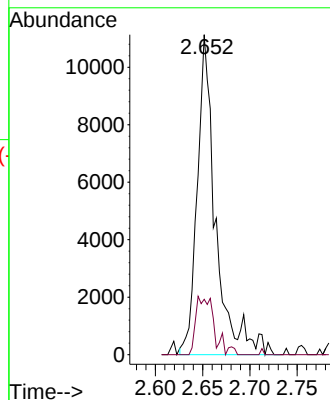
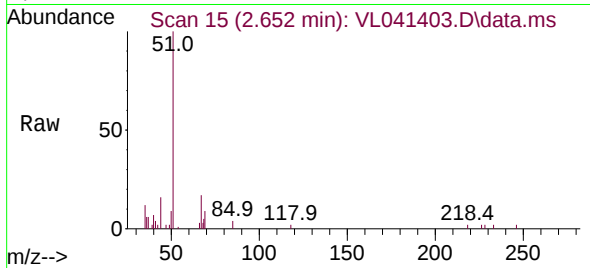




#3
Chlorodifluoromethane
Concen: 0.072 ppbv
RT: 2.652 min Scan# 15
Delta R.T. -0.000 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

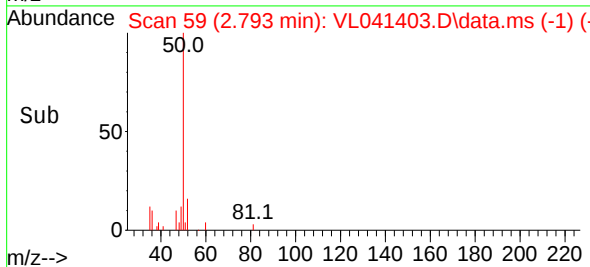
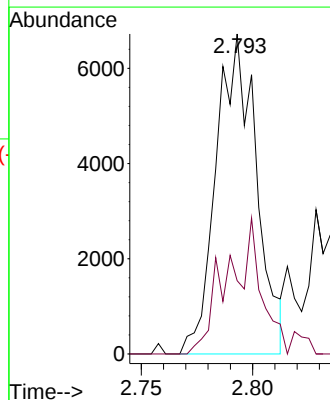
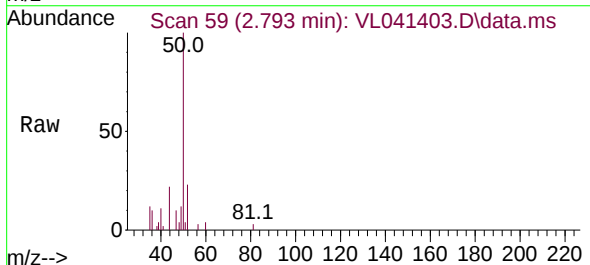
Instrument :
MSVOA_L
ClientSampleId :

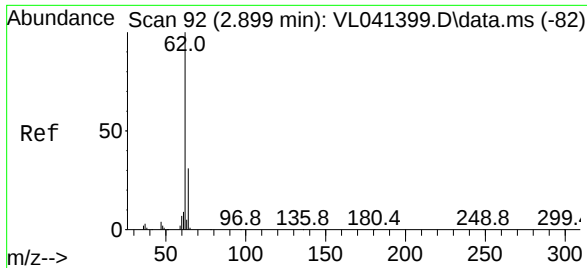
Tgt Ion: 51 Resp: 15044
Ion Ratio Lower Upper
51 100
67 18.2 14.5 21.7



#4
Chloromethane
Concen: 0.106 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.003 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

Tgt Ion: 50 Resp: 8414
Ion Ratio Lower Upper
50 100
52 22.0 26.1 39.1#

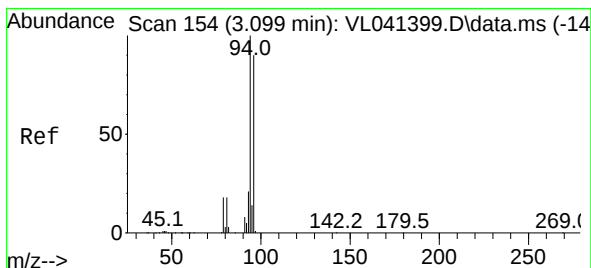
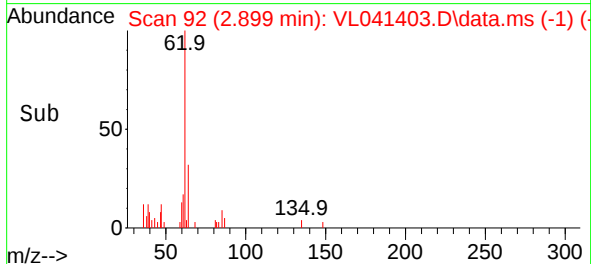
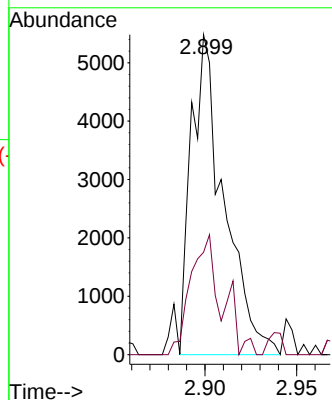
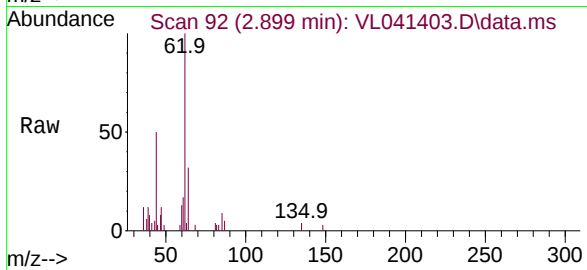




#5
 Vinyl Chloride
 Concen: 0.079 ppbv
 RT: 2.899 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VL041403.D
 Acq: 25 Jul 2024 16:42

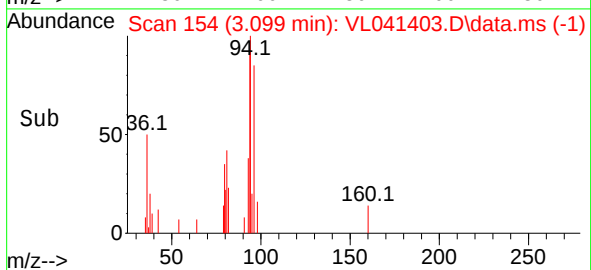
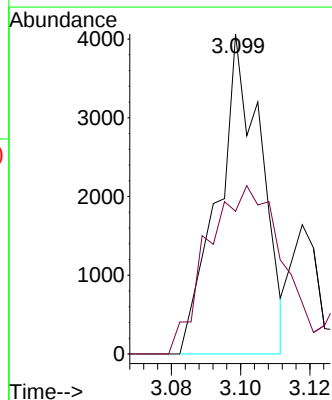
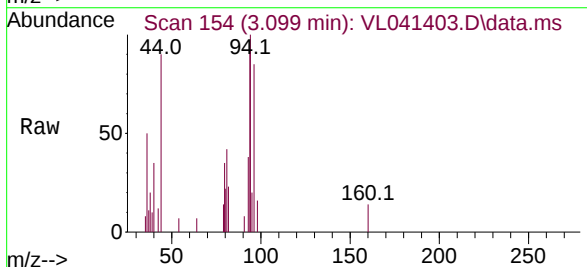
Instrument :
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 ClientSampleId :

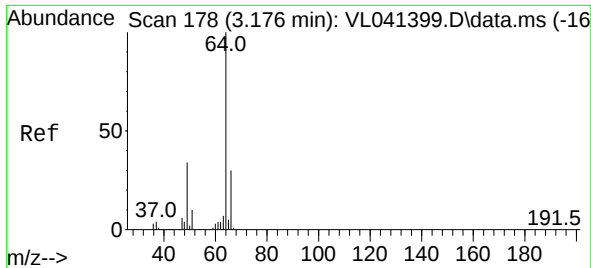
Tgt Ion: 62 Resp: 6804
 Ion Ratio Lower Upper
 62 100
 64 27.8 25.0 37.4



#6
 Bromomethane
 Concen: 0.129 ppbv
 RT: 3.099 min Scan# 154
 Delta R.T. -0.000 min
 Lab File: VL041403.D
 Acq: 25 Jul 2024 16:42

Tgt Ion: 94 Resp: 3523
 Ion Ratio Lower Upper
 94 100
 96 34.6 72.3 108.5#

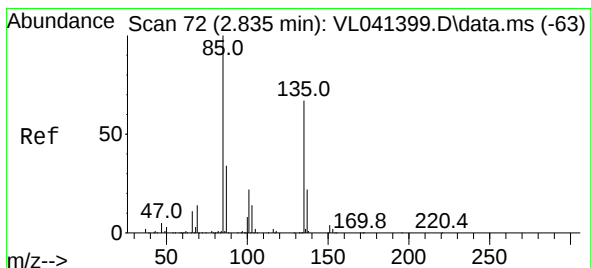
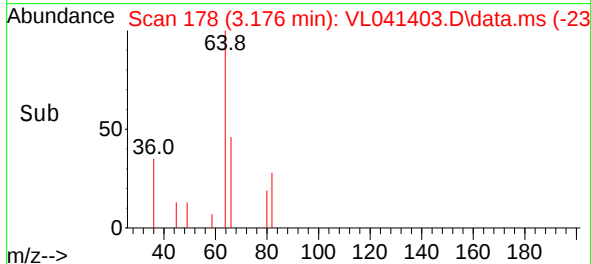
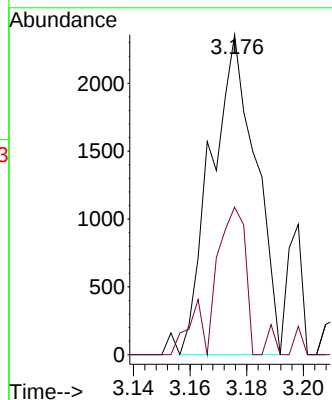
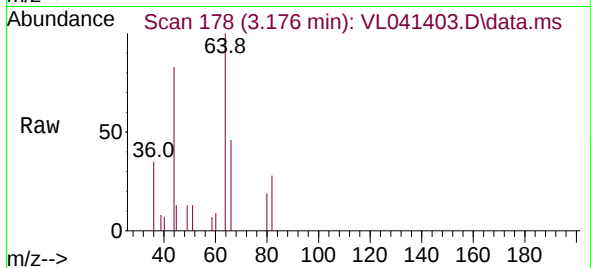




#7
Chloroethane
Concen: 0.091 ppbv
RT: 3.176 min Scan# 11
Delta R.T. -0.000 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

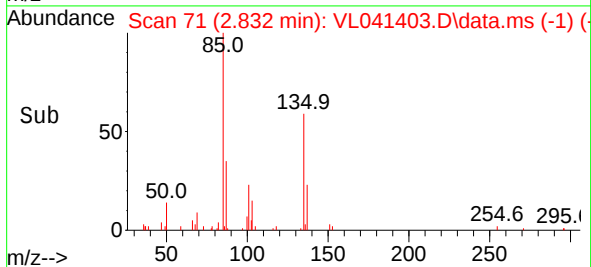
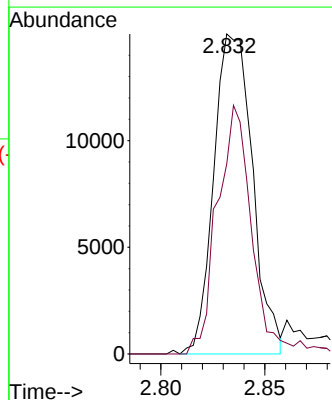
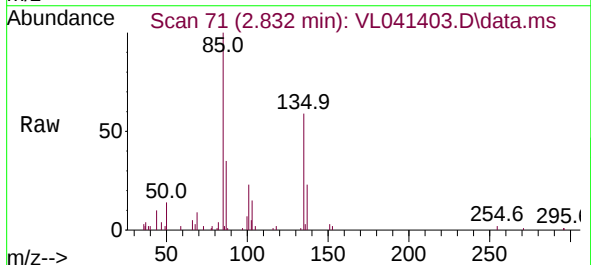
Instrument :
MSVOA_L
ClientSampleId :

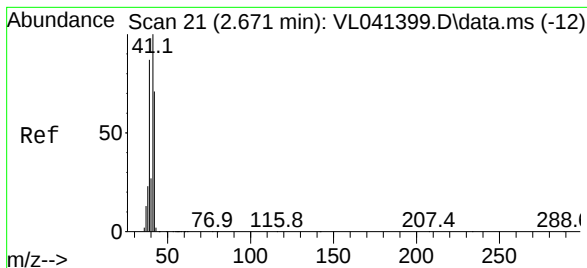
Tgt Ion: 64 Resp: 2581
Ion Ratio Lower Upper
64 100
66 46.1 24.2 36.2#



#8
Dichlorotetrafluoroethane
Concen: 0.097 ppbv
RT: 2.832 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

Tgt Ion: 85 Resp: 19422
Ion Ratio Lower Upper
85 100
135 70.3 55.4 83.0





#9

Propene

Concen: 0.144 ppbv

RT: 2.674 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

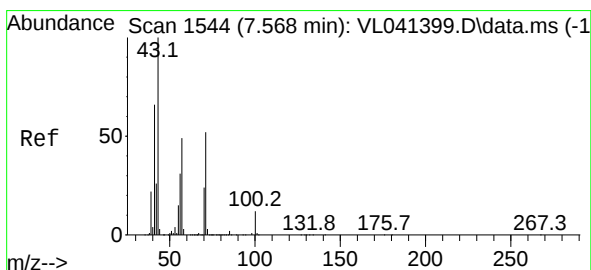
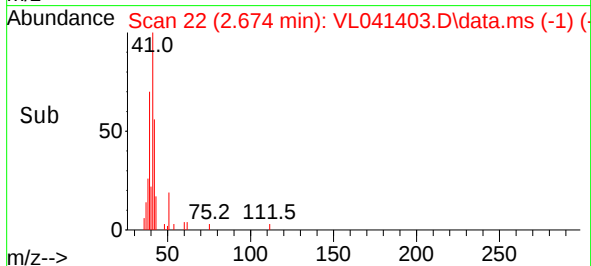
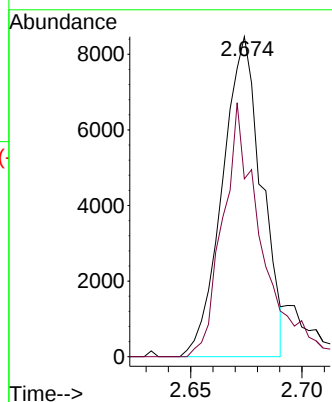
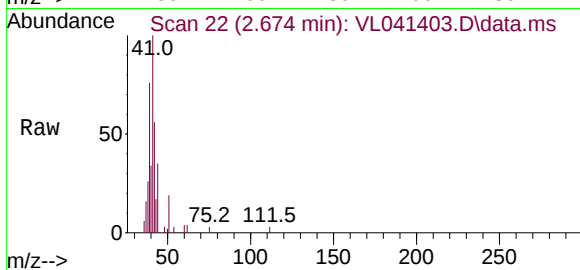
ClientSampleId :

Tgt Ion: 41 Resp: 10367

Ion Ratio Lower Upper

41 100

42 77.4 55.9 83.9



#10

Heptane

Concen: 0.062 ppbv

RT: 7.568 min Scan# 1544

Delta R.T. -0.000 min

Lab File: VL041403.D

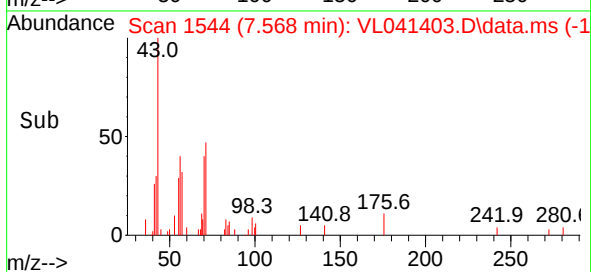
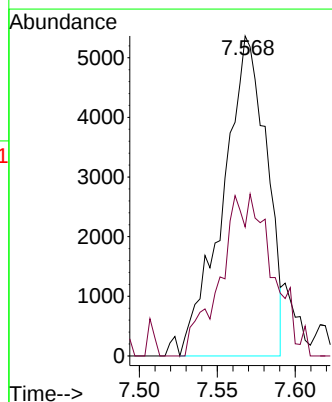
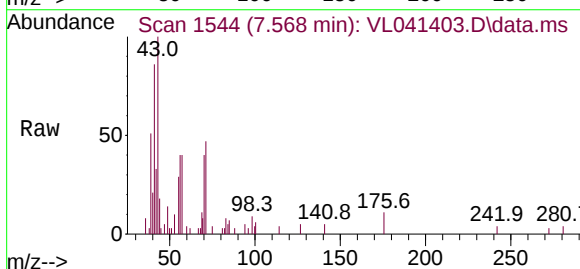
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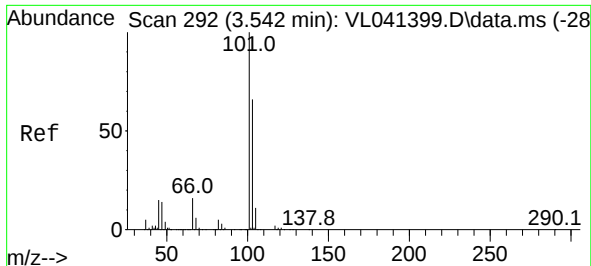
Tgt Ion: 43 Resp: 10455

Ion Ratio Lower Upper

43 100

57 62.0 40.5 60.7#

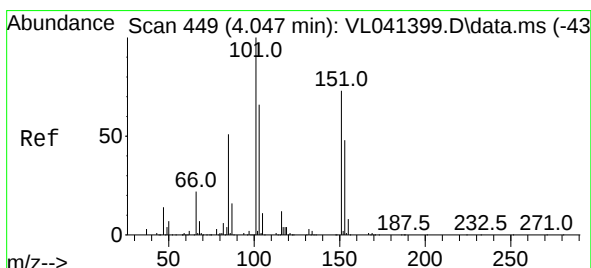
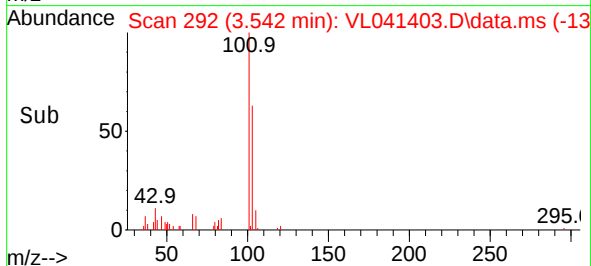
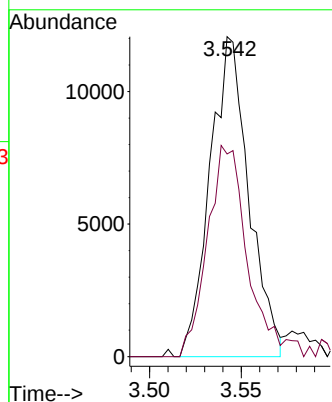
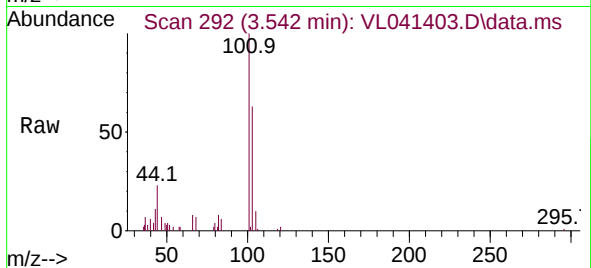




#11
 Trichlorofluoromethane
 Concen: 0.089 ppbv
 RT: 3.542 min Scan# 292
 Delta R.T. -0.000 min
 Lab File: VL041403.D
 Acq: 25 Jul 2024 16:42

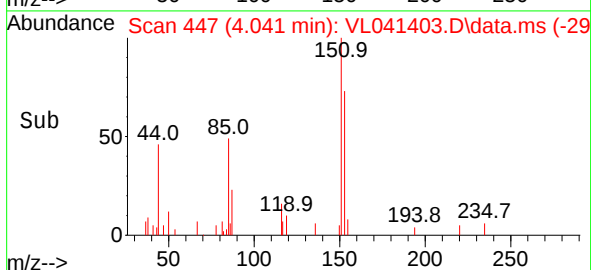
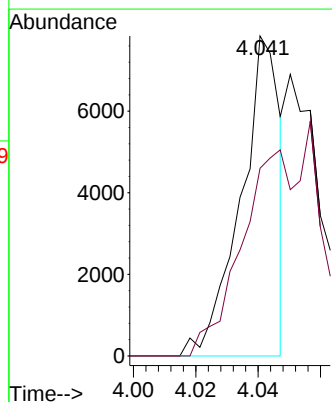
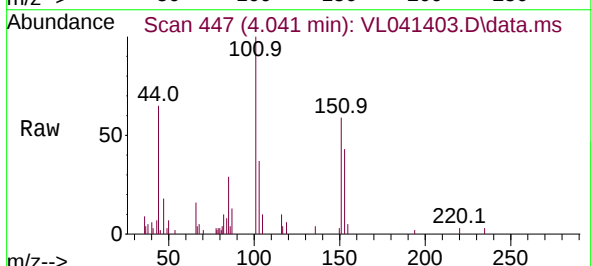
Instrument :
 MSVOA_L
 ClientSampleId :

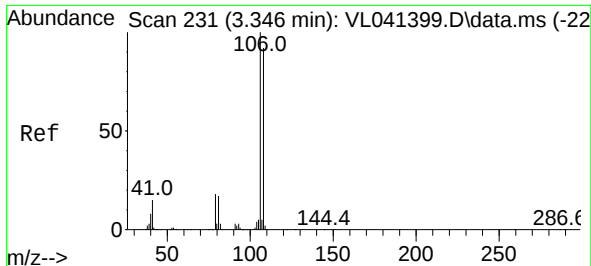
Tgt Ion:101 Resp: 17767
 Ion Ratio Lower Upper
 101 100
 103 63.4 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.048 ppbv
 RT: 4.041 min Scan# 447
 Delta R.T. -0.006 min
 Lab File: VL041403.D
 Acq: 25 Jul 2024 16:42

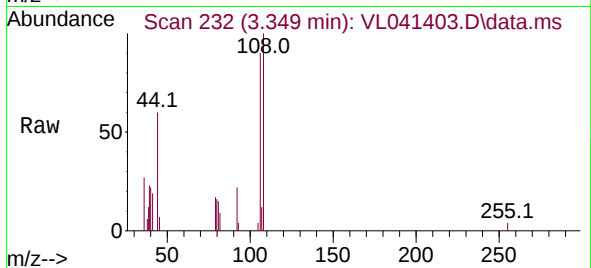
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 Ion Ratio Lower Upper
 101 100
 151 0.0 59.4 89.2#



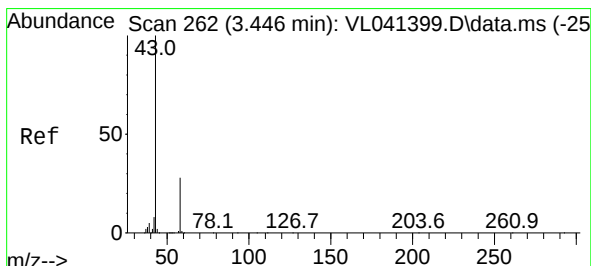
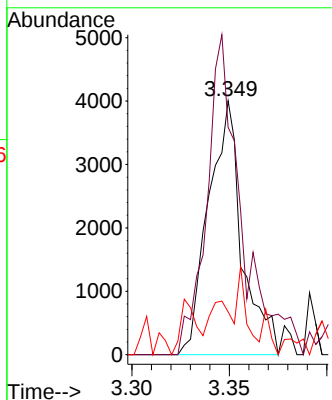
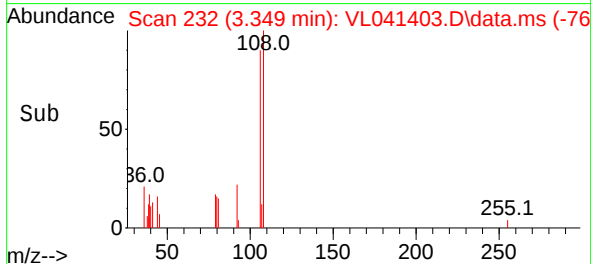


#14
Bromoethene
Concen: 0.085 ppbv
RT: 3.349 min Scan# 241
Delta R.T. 0.003 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

Instrument :
MSVOA_L
ClientSampleId :

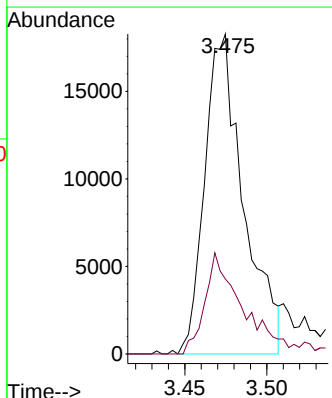
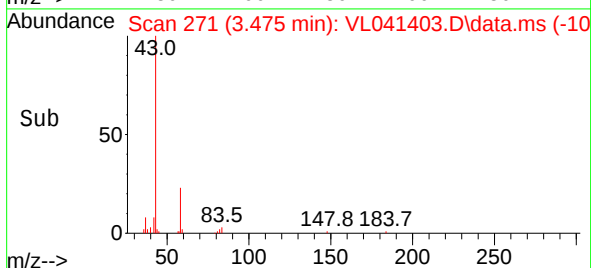
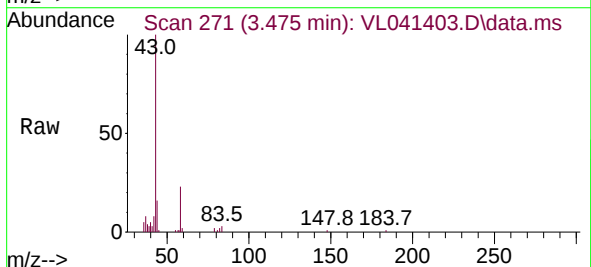


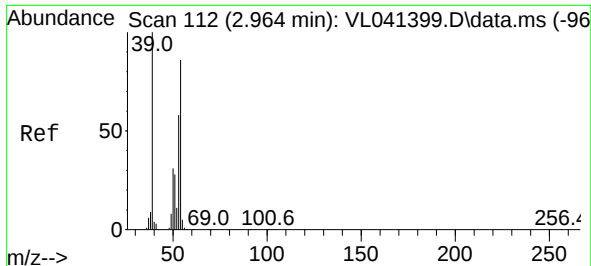
Tgt Ion:108 Resp: 4791
Ion Ratio Lower Upper
108 100
106 139.8 86.9 130.3#
79 49.7 16.2 24.4#



#15
Acetone
Concen: 0.188 ppbv
RT: 3.475 min Scan# 271
Delta R.T. 0.029 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

Tgt Ion: 43 Resp: 30035
Ion Ratio Lower Upper
43 100
58 33.8 21.4 32.2#





#16

1,3-Butadiene

Concen: 0.089 ppbv

RT: 2.960 min Scan# 111

Delta R.T. -0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

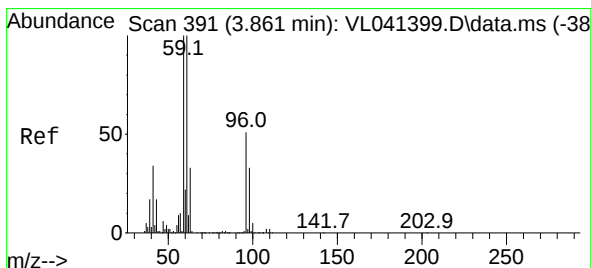
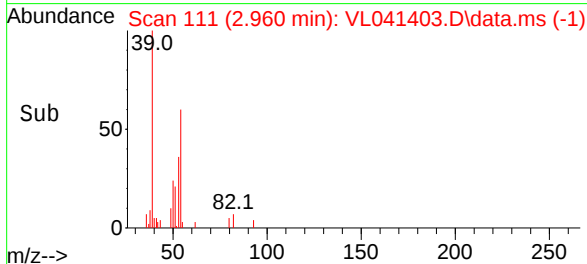
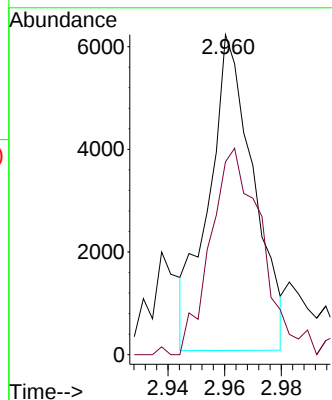
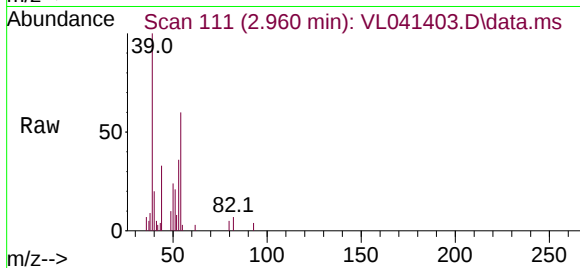
ClientSampleId :

Tgt Ion: 39 Resp: 6736

Ion Ratio Lower Upper

39 100

54 75.2 62.5 93.7



#18

1,1-Dichloroethene

Concen: 0.096 ppbv

RT: 3.864 min Scan# 392

Delta R.T. 0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

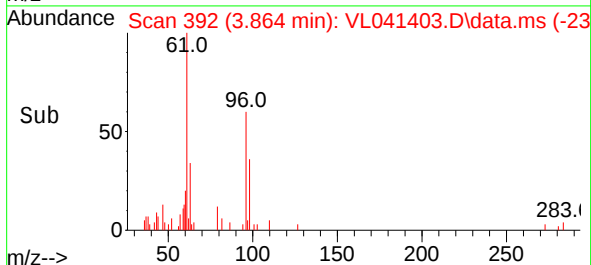
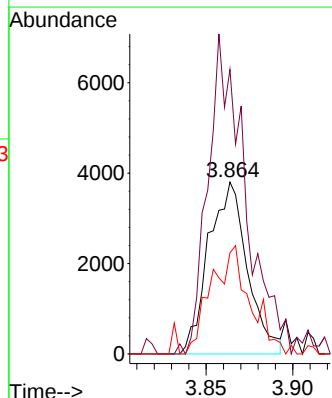
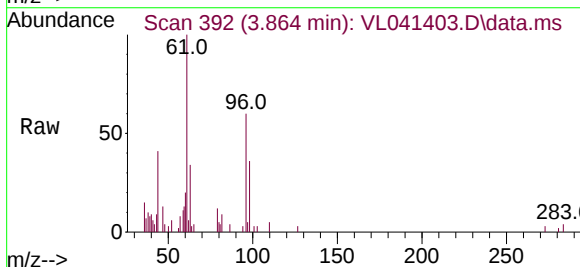
Tgt Ion: 96 Resp: 5908

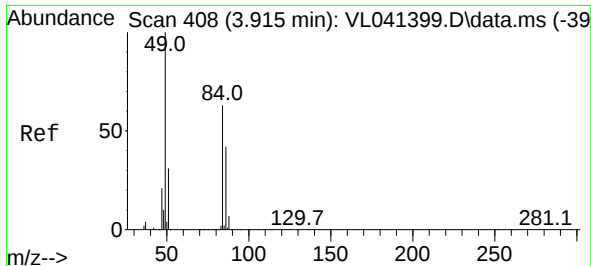
Ion Ratio Lower Upper

96 100

61 159.7 157.5 236.3

98 58.9 51.2 76.8





#20

Methylene Chloride

Concen: 0.205 ppbv

RT: 3.909 min Scan# 408

Delta R.T. -0.007 min

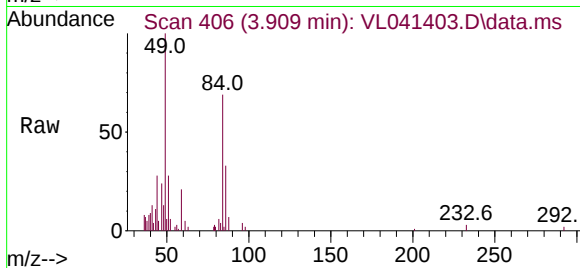
Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 11893

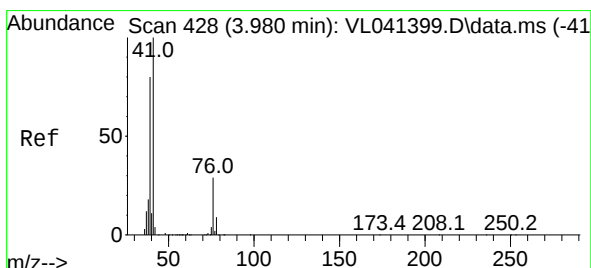
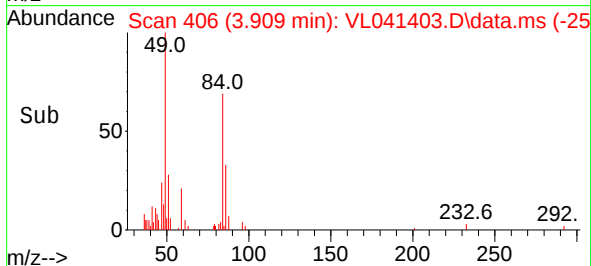
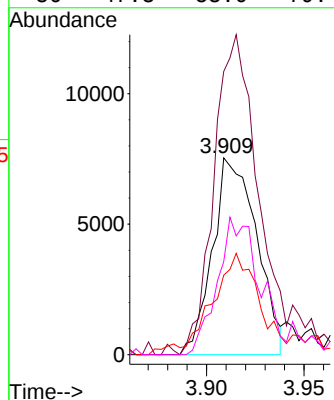
Ion Ratio Lower Upper

84 100

49 143.9 126.6 190.0

51 36.8 38.6 58.0#

86 47.3 53.0 79.4#



#21

Allyl Chloride

Concen: 0.086 ppbv

RT: 3.973 min Scan# 426

Delta R.T. -0.006 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

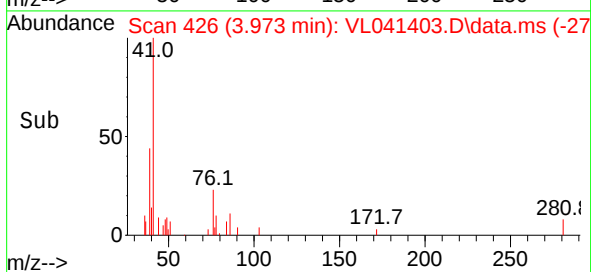
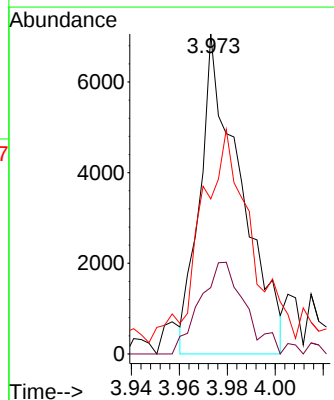
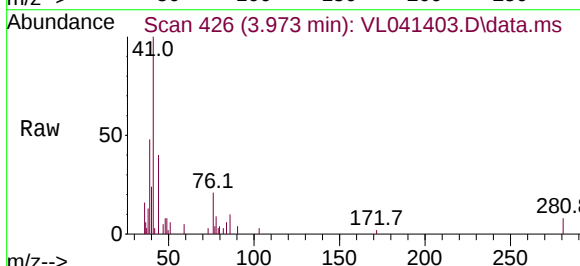
Tgt Ion: 41 Resp: 8319

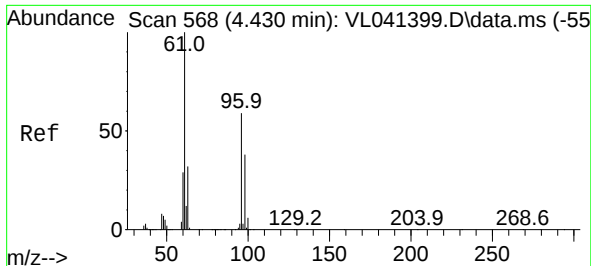
Ion Ratio Lower Upper

41 100

76 33.7 23.7 35.5

39 105.5 64.3 96.5#





#22

trans-1,2-Dichloroethene

Concen: 0.082 ppbv

RT: 4.426 min Scan# 5

Delta R.T. -0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

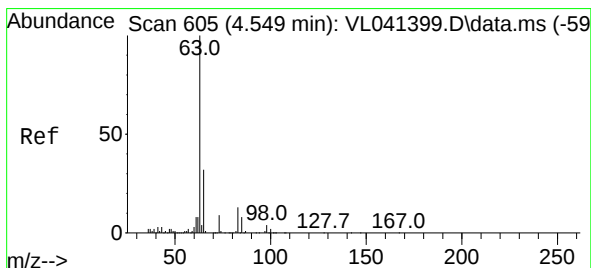
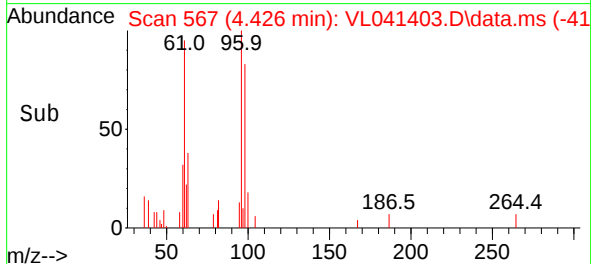
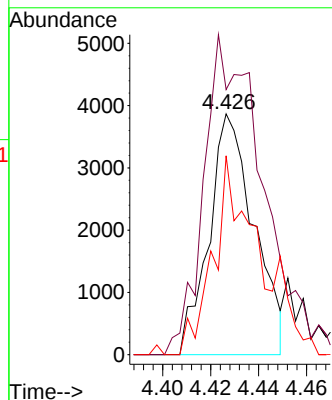
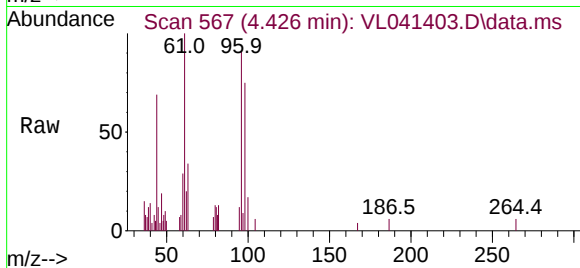
Tgt Ion: 96 Resp: 5052

Ion Ratio Lower Upper

96 100

61 101.1 135.4 203.2#

98 82.6 51.0 76.4#



#24

1,1-Dichloroethane

Concen: 0.058 ppbv

RT: 4.542 min Scan# 603

Delta R.T. -0.007 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

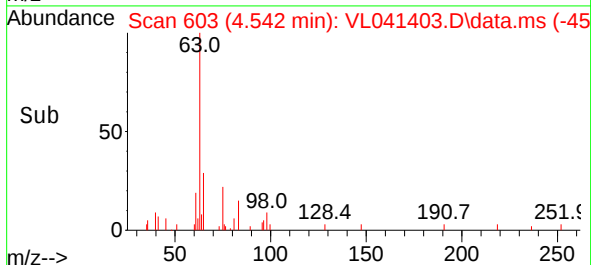
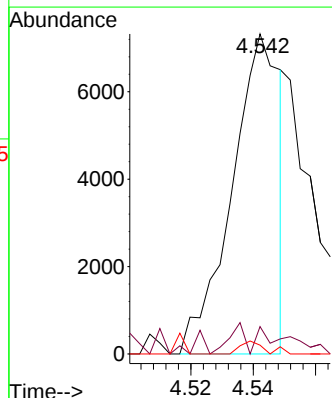
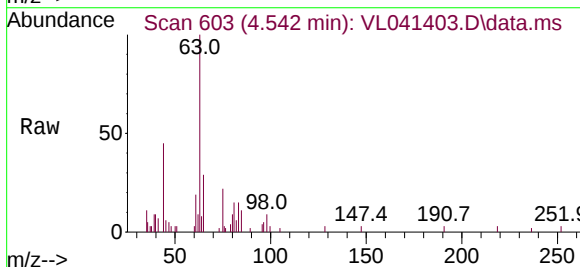
Tgt Ion: 63 Resp: 7849

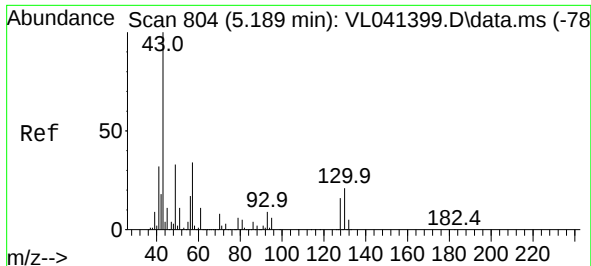
Ion Ratio Lower Upper

63 100

98 6.0 2.0 6.0#

100 0.5 1.2 3.6#





#25

Ethyl Acetate

Concen: 0.036 ppbv

RT: 5.198 min Scan# 807

Delta R.T. 0.010 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 10605

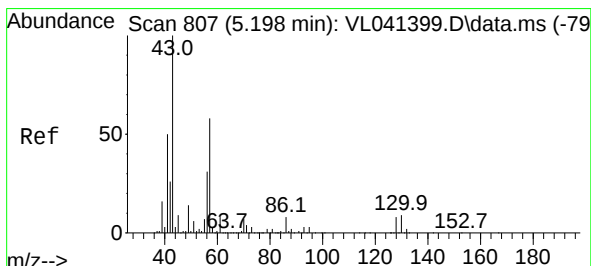
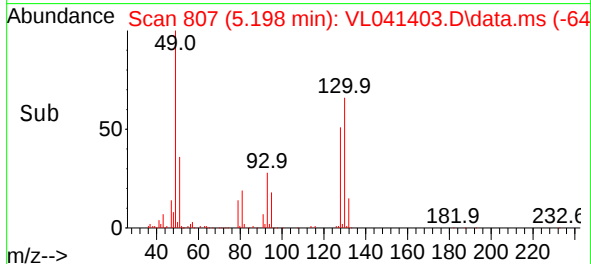
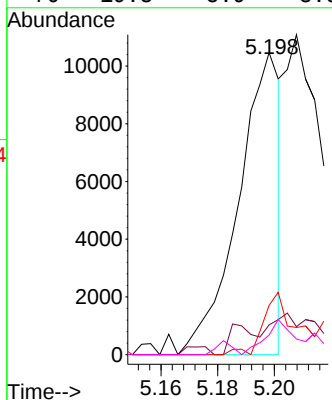
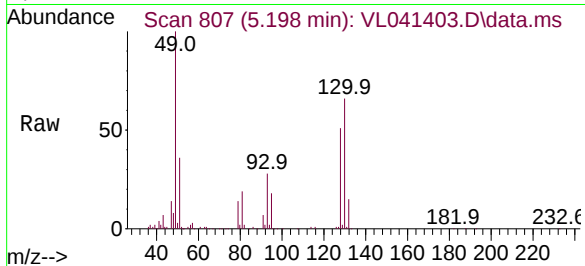
Ion Ratio Lower Upper

43 100

45 0.0 8.5 12.7#

61 26.7 8.0 12.0#

70 19.3 5.9 8.9#



#26

Hexane

Concen: 0.057 ppbv

RT: 5.195 min Scan# 806

Delta R.T. -0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Tgt Ion: 57 Resp: 7441

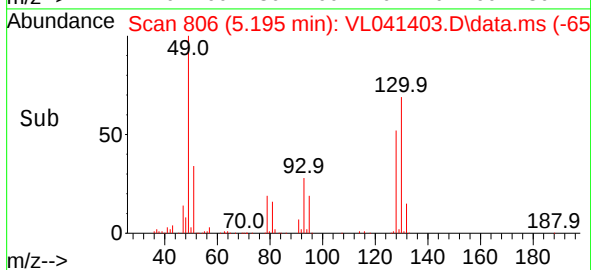
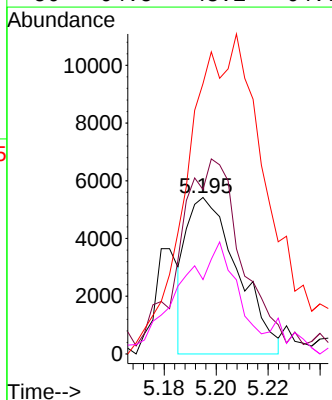
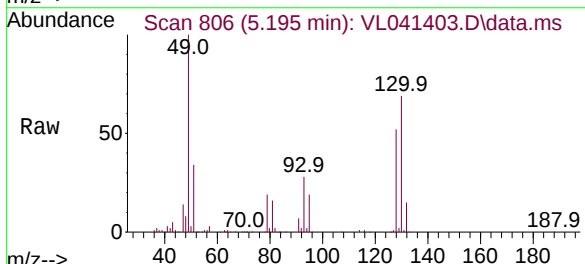
Ion Ratio Lower Upper

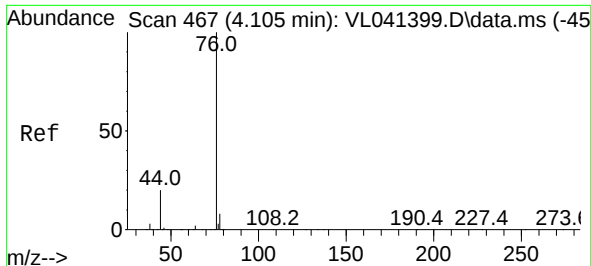
57 100

41 166.8 74.0 111.0#

43 360.2 193.6 290.4#

56 94.5 43.1 64.7#





#27

Carbon Disulfide

Concen: 0.031 ppbv

RT: 4.105 min Scan# 4

Delta R.T. -0.000 min

Lab File: VL041403.D

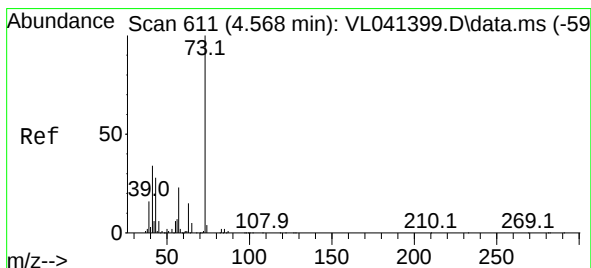
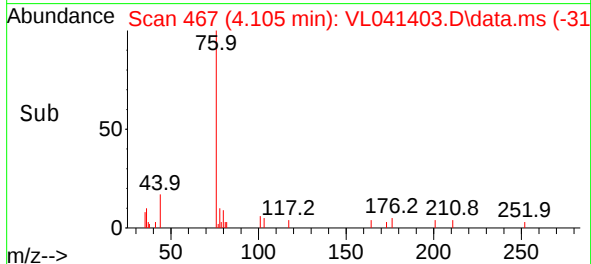
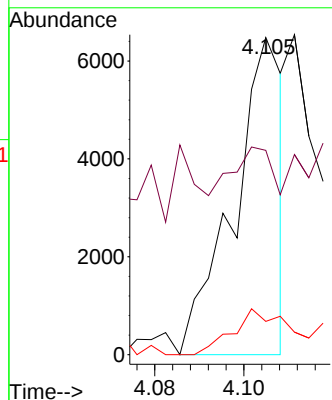
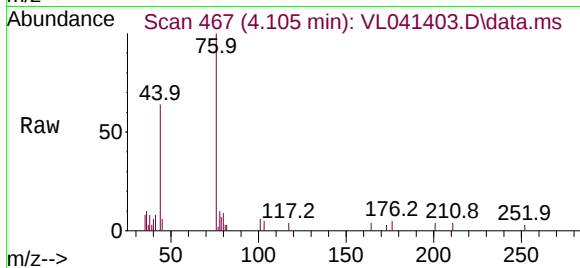
Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 76	Resp: 4941
Ion Ratio	Lower Upper
76	100
44	0.0 15.6 23.4#
78	24.8 7.7 11.5#



#28

Methyl tert-Butyl Ether

Concen: 0.046 ppbv

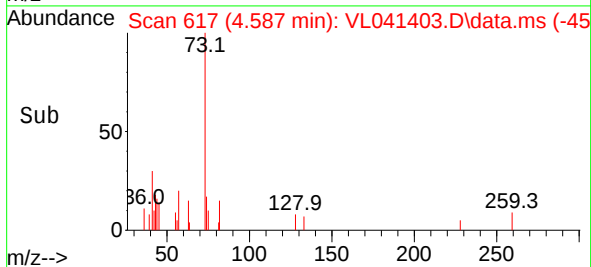
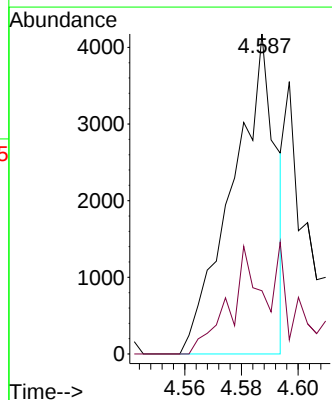
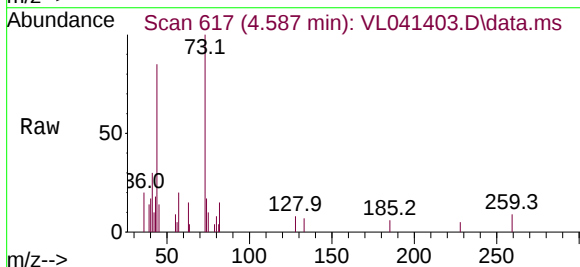
RT: 4.587 min Scan# 617

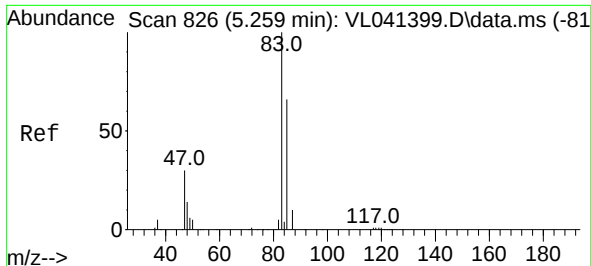
Delta R.T. 0.019 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Tgt Ion: 73	Resp: 4403
Ion Ratio	Lower Upper
73	100
57	0.0 18.9 28.3#





#29

Chloroform

Concen: 0.044 ppbv

RT: 5.253 min Scan# 81

Delta R.T. -0.007 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

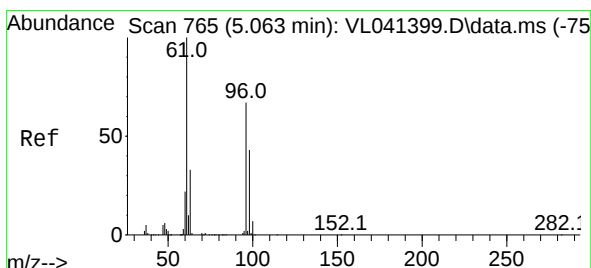
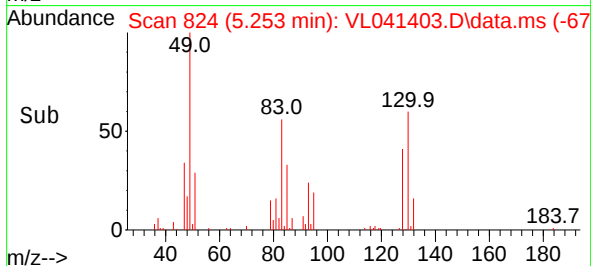
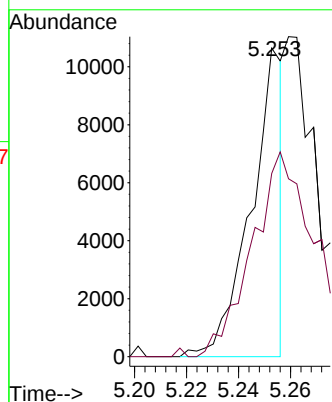
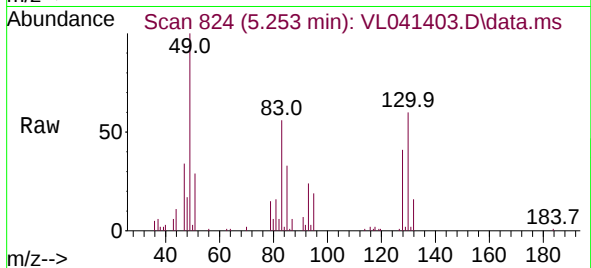
ClientSampleId :

Tgt Ion: 83 Resp: 8901

Ion Ratio Lower Upper

83 100

85 56.6 53.1 79.7



#31

cis-1,2-Dichloroethene

Concen: 0.076 ppbv

RT: 5.063 min Scan# 765

Delta R.T. -0.000 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

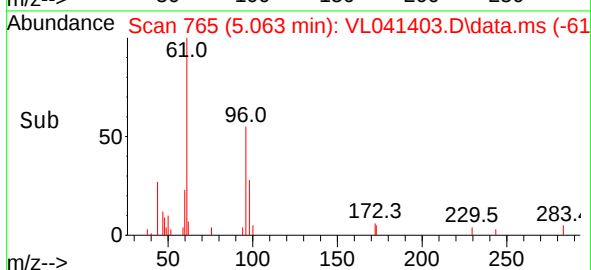
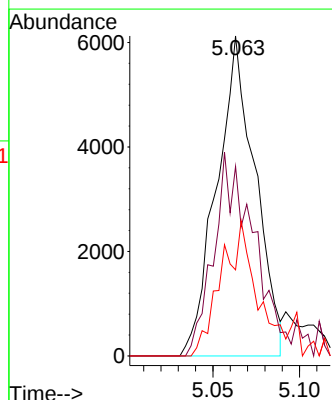
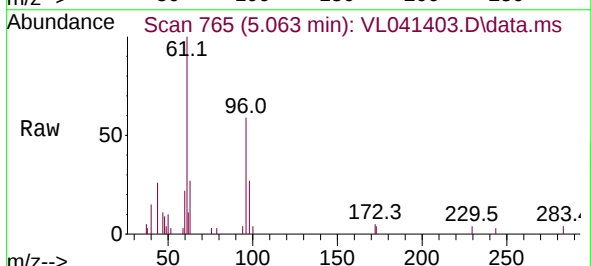
Tgt Ion: 61 Resp: 9470

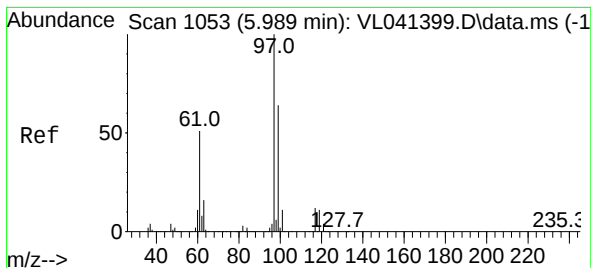
Ion Ratio Lower Upper

61 100

96 59.3 53.4 80.2

98 26.9 34.4 51.6#





#32

1,1,1-Trichloroethane

Concen: 0.038 ppbv

RT: 5.989 min Scan# 1

Delta R.T. -0.000 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

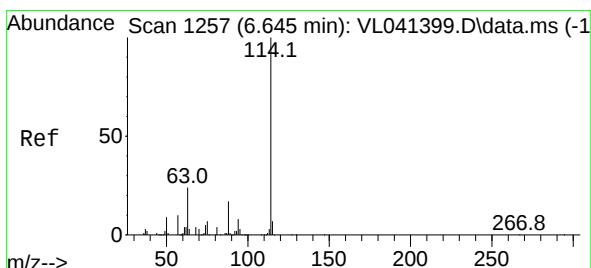
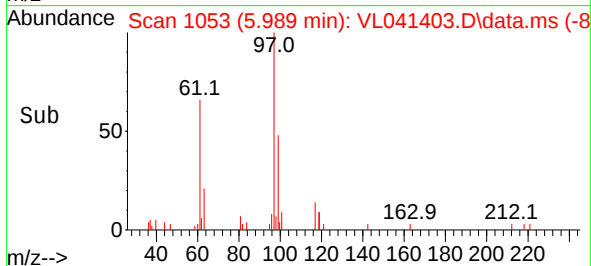
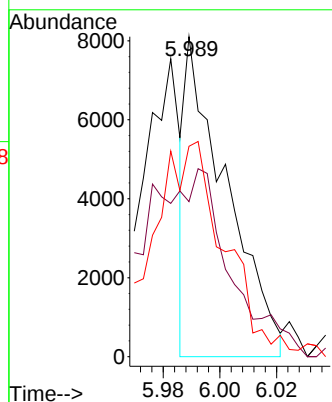
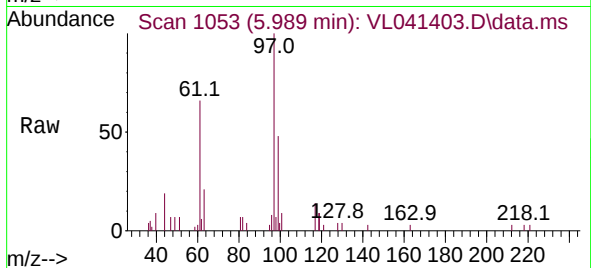
Tgt Ion: 97 Resp: 8068

Ion Ratio Lower Upper

97 100

99 126.4 52.0 78.0#

61 121.2 41.8 62.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.006 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

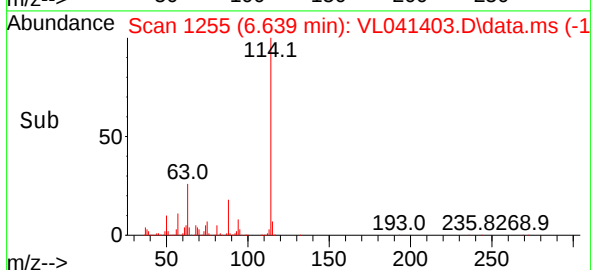
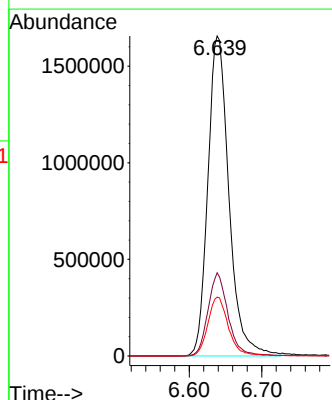
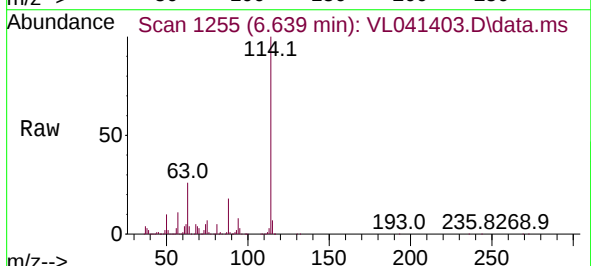
Tgt Ion:114 Resp: 3343894

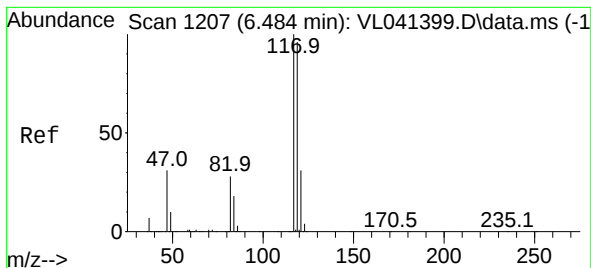
Ion Ratio Lower Upper

114 100

63 25.0 20.3 30.5

88 18.1 14.3 21.5





#35

Carbon Tetrachloride

Concen: 0.050 ppbv

RT: 6.478 min Scan# 11

Delta R.T. -0.007 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

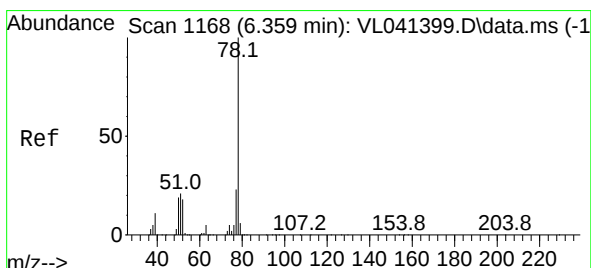
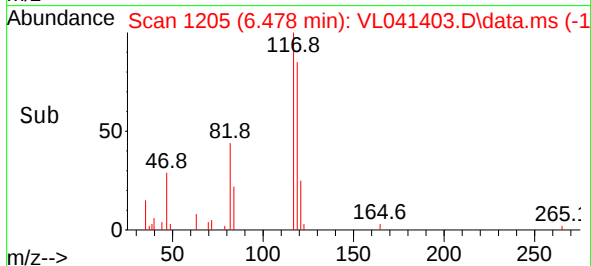
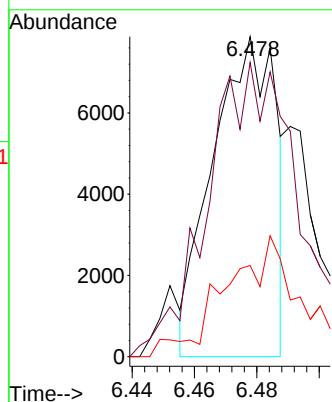
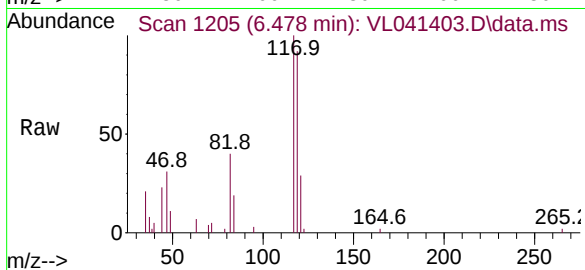
Tgt Ion:117 Resp: 11012

Ion Ratio Lower Upper

117 100

119 94.3 76.6 115.0

121 27.8 25.1 37.7



#36

Benzene

Concen: 0.044 ppbv

RT: 6.356 min Scan# 1167

Delta R.T. -0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

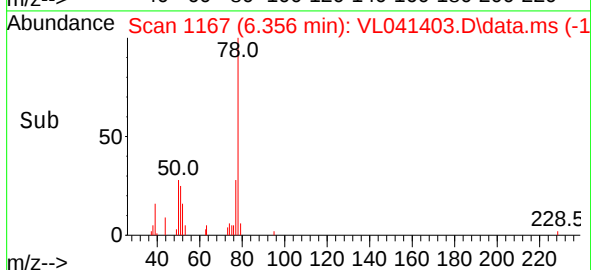
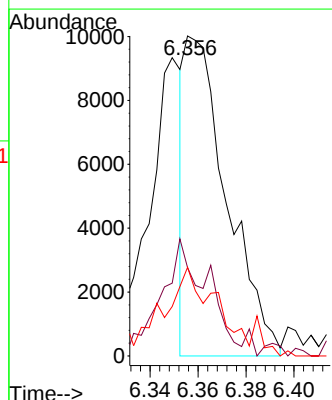
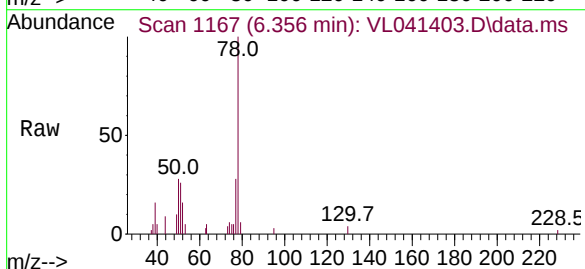
Tgt Ion: 78 Resp: 12146

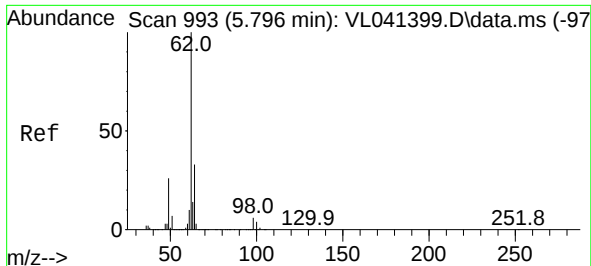
Ion Ratio Lower Upper

78 100

77 25.1 18.1 27.1

50 28.4 15.5 23.3#





#37

1,2-Dichloroethane

Concen: 0.069 ppbv

RT: 5.799 min Scan# 993

Delta R.T. 0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

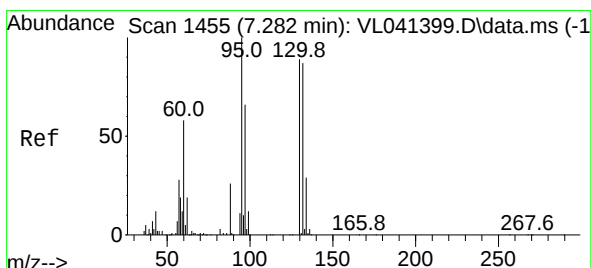
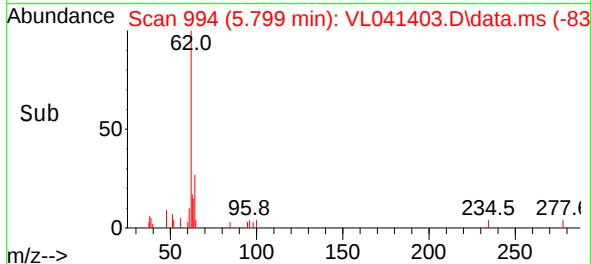
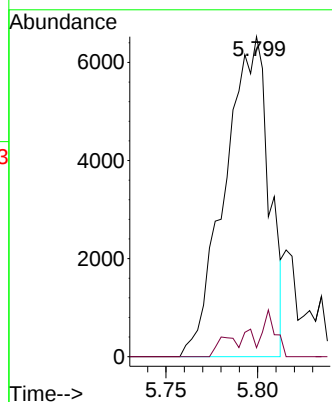
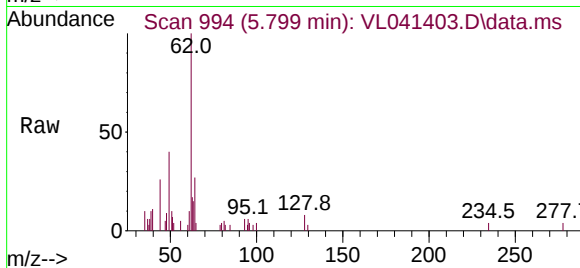
ClientSampleId :

Tgt Ion: 62 Resp: 10898

Ion Ratio Lower Upper

62 100

98 9.1 5.0 7.4#



#38

Trichloroethene

Concen: 0.050 ppbv

RT: 7.278 min Scan# 1454

Delta R.T. -0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Tgt Ion:130 Resp: 5976

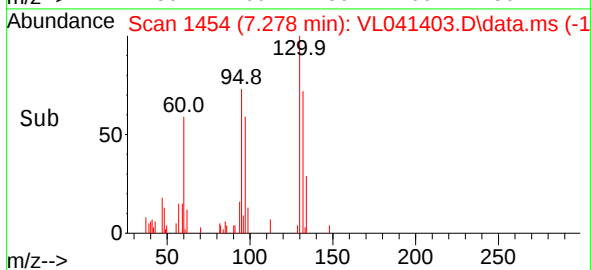
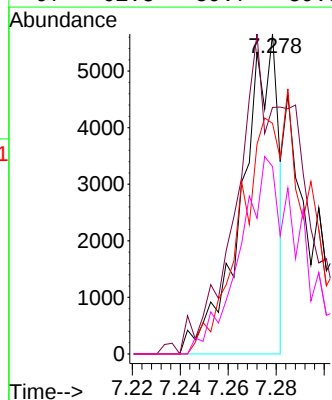
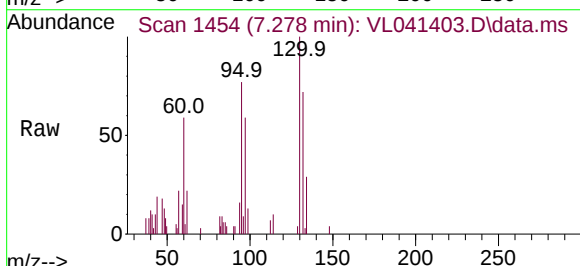
Ion Ratio Lower Upper

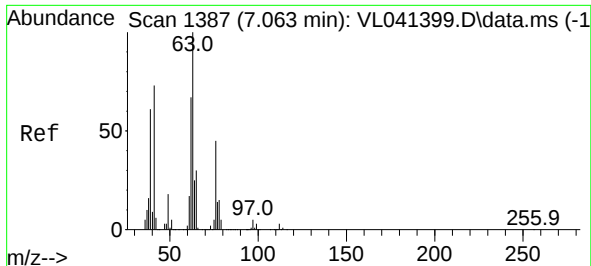
130 100

95 81.3 90.2 135.2#

132 76.0 78.1 117.1#

97 61.8 59.7 89.5





#39

1,2-Dichloropropane

Concen: 7.669 ppbv

RT: 6.639 min Scan# 1400

Delta R.T. -0.425 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

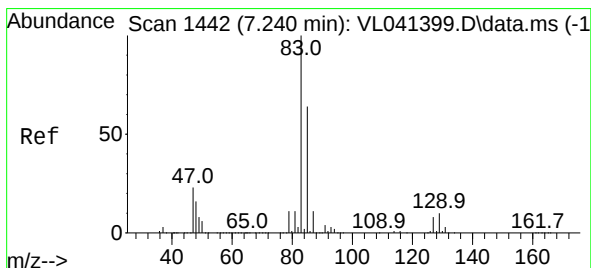
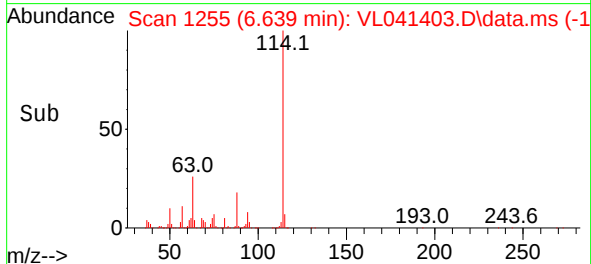
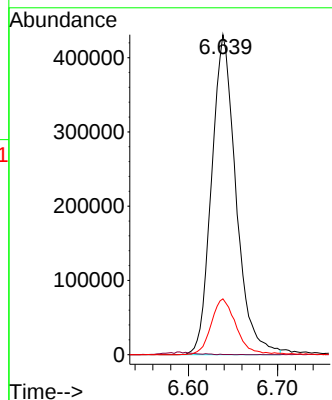
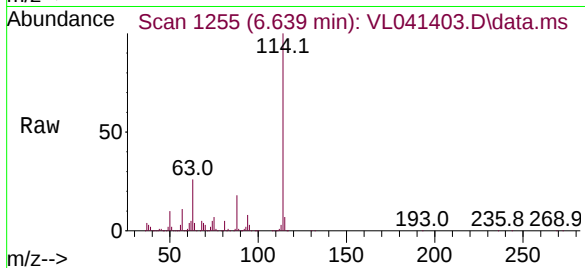
Tgt Ion: 63 Resp: 820153

Ion Ratio Lower Upper

63 100

41 0.1 58.3 87.5#

62 17.4 53.9 80.9#



#42

Bromodichloromethane

Concen: 0.039 ppbv

RT: 7.233 min Scan# 1440

Delta R.T. -0.006 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

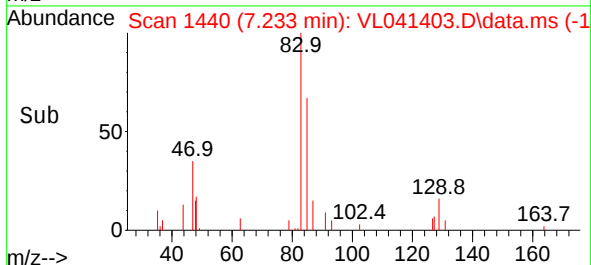
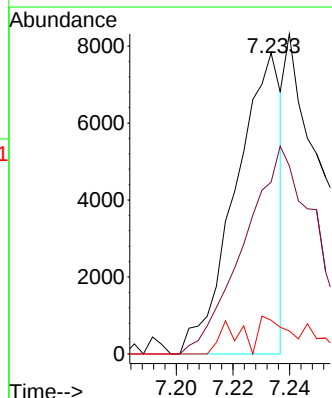
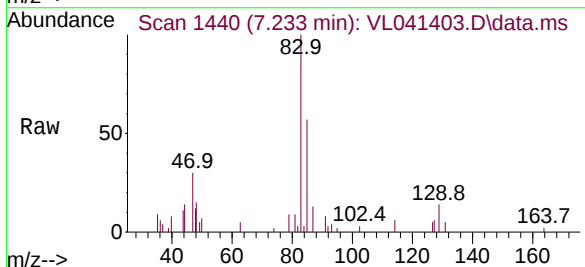
Tgt Ion: 83 Resp: 8739

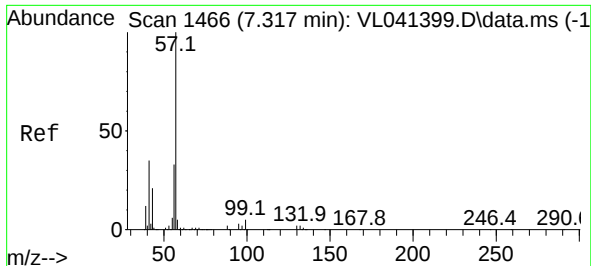
Ion Ratio Lower Upper

83 100

85 57.1 51.4 77.0

127 11.2 6.7 10.1#





#44

2,2,4-Trimethylpentane

Concen: 0.069 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. -0.000 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

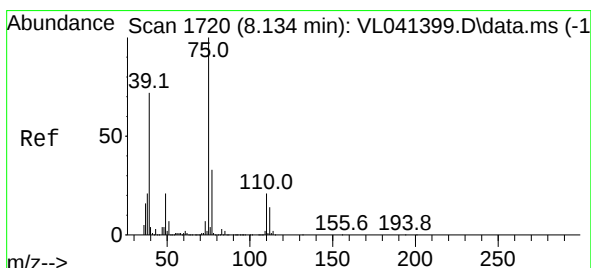
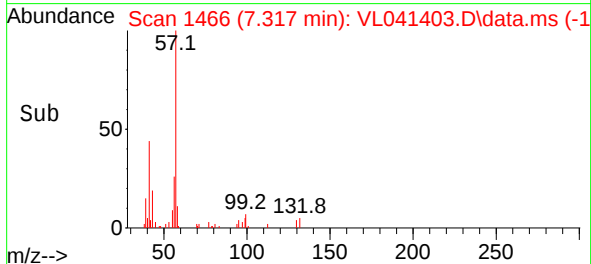
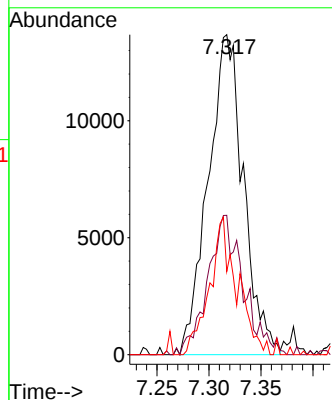
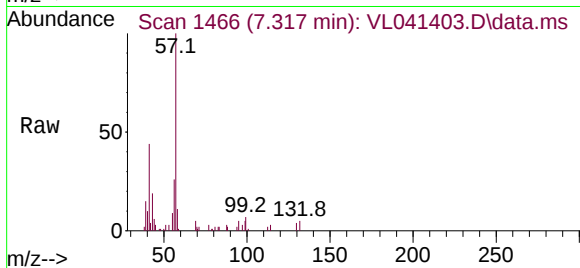
Tgt Ion: 57 Resp: 32353

Ion Ratio Lower Upper

57 100

41 43.5 27.0 40.6#

56 34.6 25.2 37.8



#46

cis-1,3-Dichloropropene

Concen: 0.059 ppbv

RT: 8.127 min Scan# 1718

Delta R.T. -0.007 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

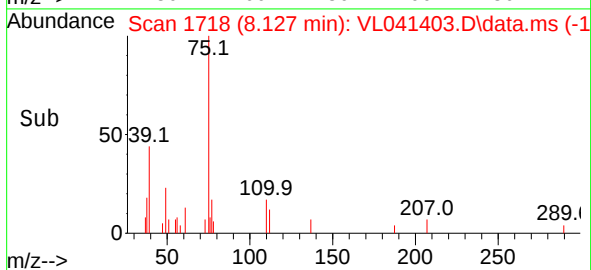
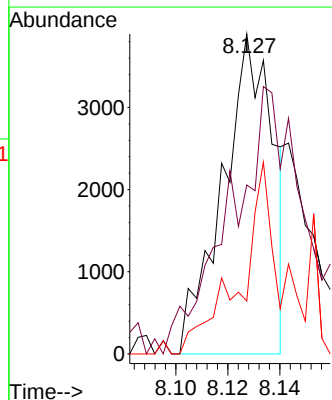
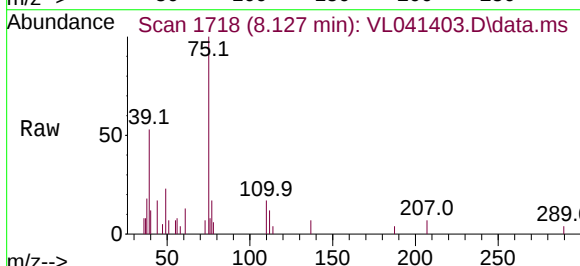
Tgt Ion: 75 Resp: 5219

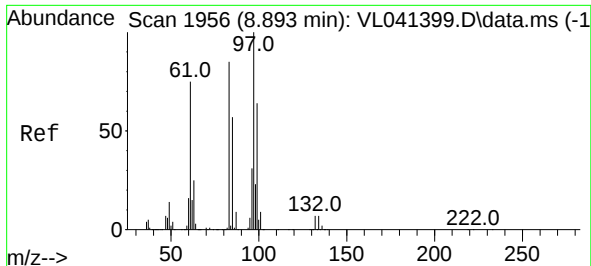
Ion Ratio Lower Upper

75 100

39 37.9 57.3 85.9#

77 16.5 26.2 39.2#





#47

1,1,2-Trichloroethane

Concen: 0.070 ppbv

RT: 8.886 min Scan# 1954

Delta R.T. -0.006 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 97 Resp: 8018

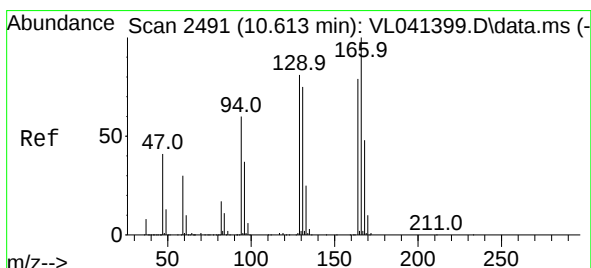
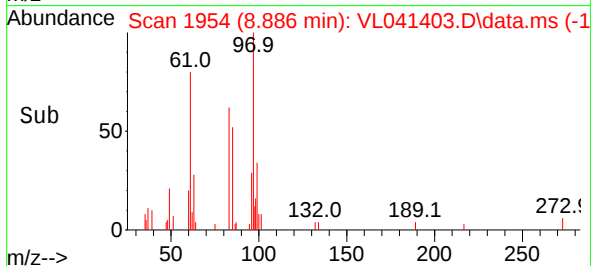
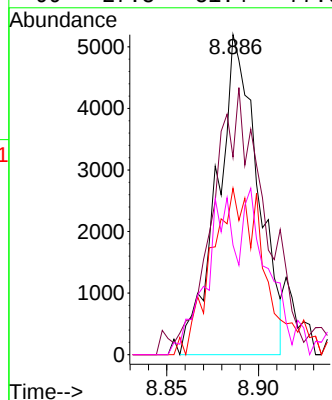
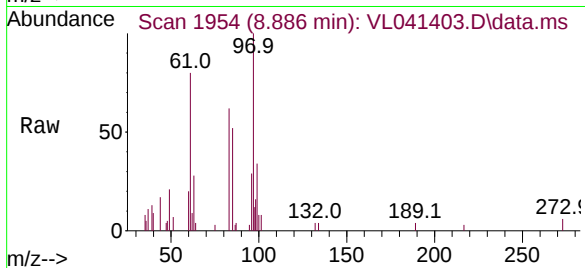
Ion Ratio Lower Upper

97 100

83 49.3 67.6 101.4#

85 41.8 45.9 68.9#

99 27.8 51.4 77.0#



#52

Tetrachloroethene

Concen: 0.037 ppbv

RT: 10.606 min Scan# 2489

Delta R.T. -0.007 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Tgt Ion:164 Resp: 4145

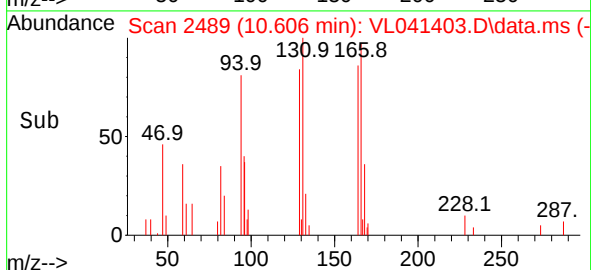
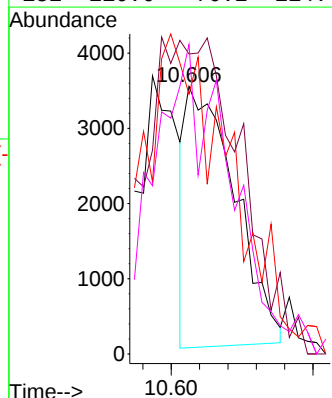
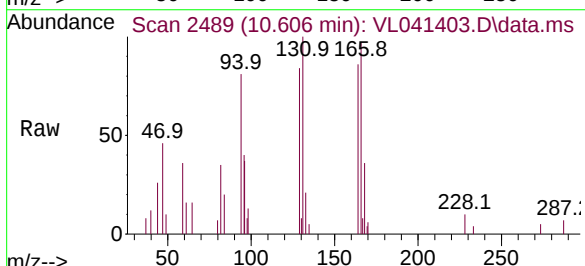
Ion Ratio Lower Upper

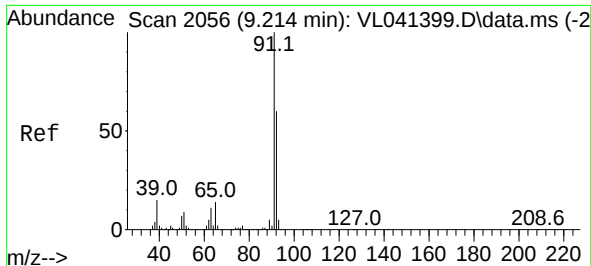
164 100

166 90.6 101.1 151.7#

129 92.3 81.7 122.5

131 116.6 76.2 114.4#





#53

Toluene

Concen: 0.033 ppbv

RT: 9.208 min Scan# 2056

Delta R.T. -0.007 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

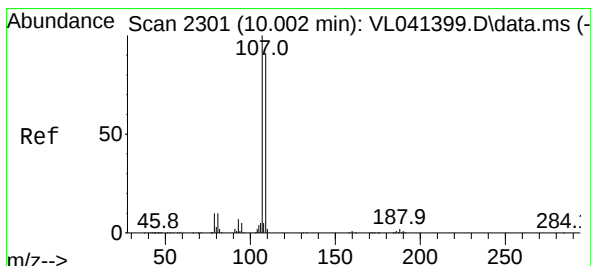
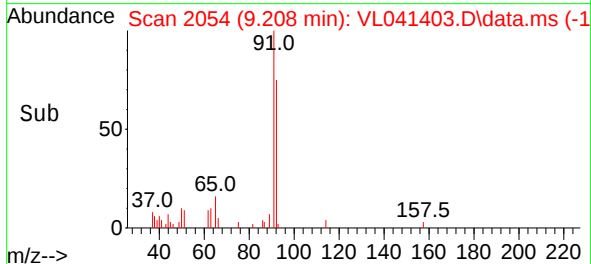
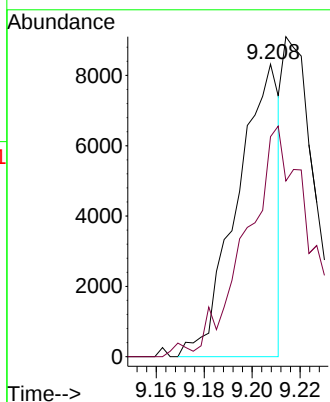
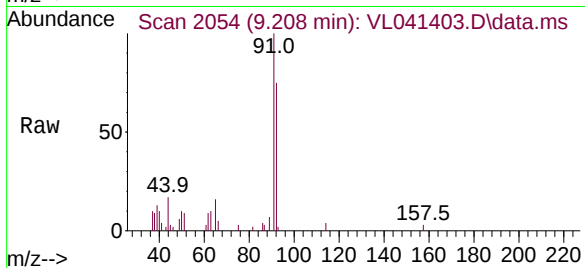
ClientSampleId :

Tgt Ion: 91 Resp: 10160

Ion Ratio Lower Upper

91 100

92 0.0 48.7 73.1#



#54

1,2-Dibromoethane

Concen: 0.036 ppbv

RT: 10.005 min Scan# 2302

Delta R.T. 0.003 min

Lab File: VL041403.D

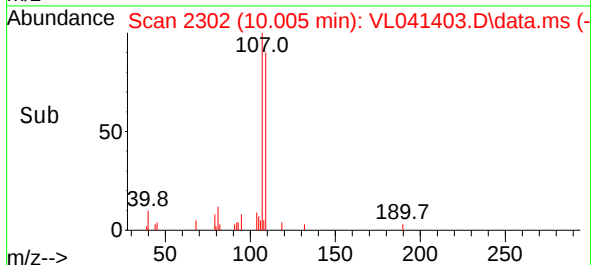
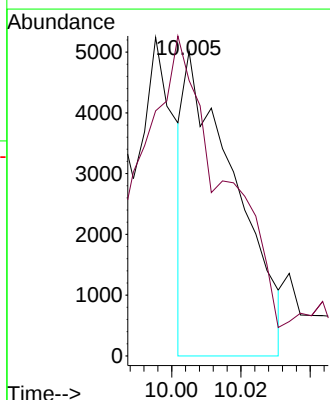
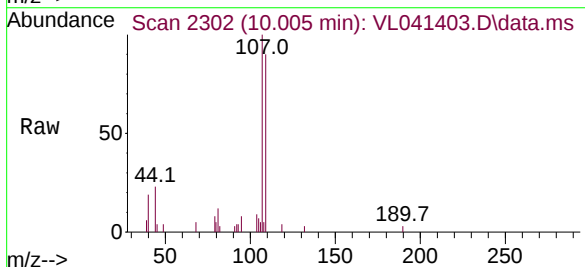
Acq: 25 Jul 2024 16:42

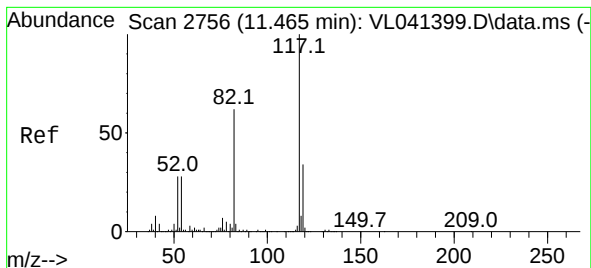
Tgt Ion:107 Resp: 5057

Ion Ratio Lower Upper

107 100

109 103.4 72.7 109.1





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 21

Delta R.T. -0.007 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

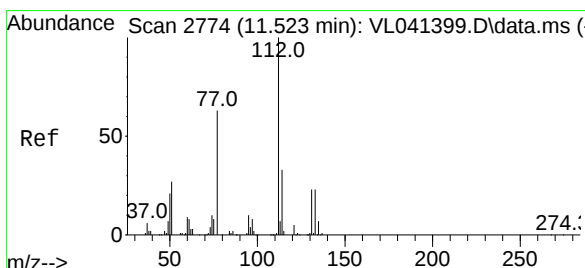
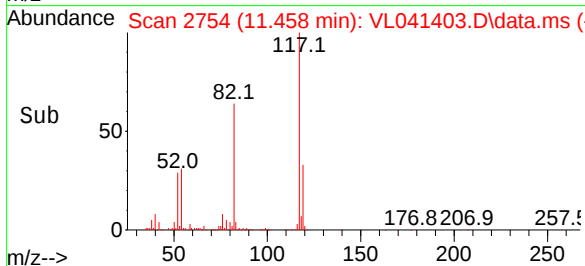
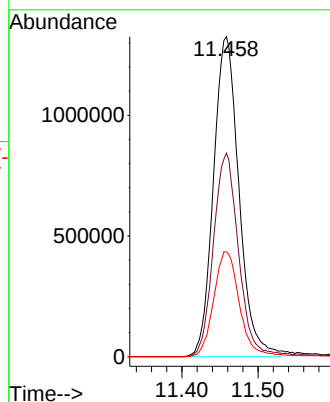
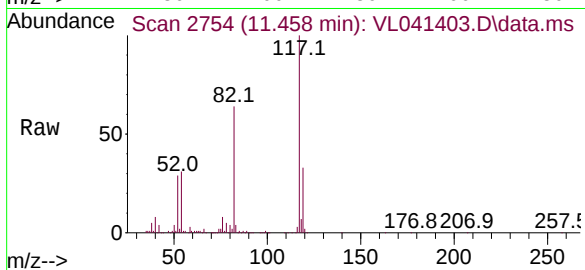
Tgt Ion:117 Resp: 3087423

Ion Ratio Lower Upper

117 100

82 63.9 51.0 76.6

119 33.2 45.2 67.8#



#57

Chlorobenzene

Concen: 0.070 ppbv

RT: 11.513 min Scan# 2771

Delta R.T. -0.010 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

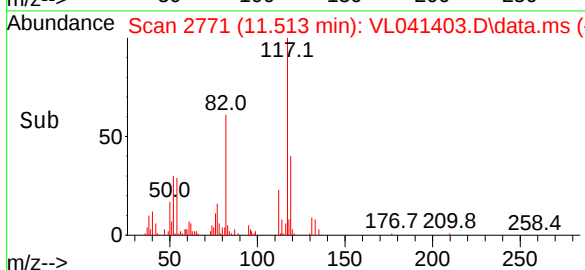
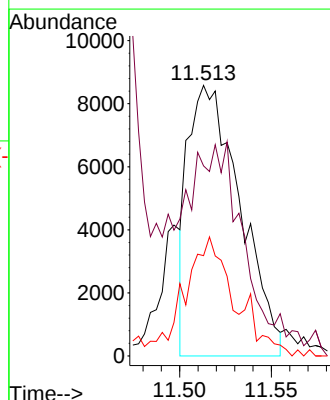
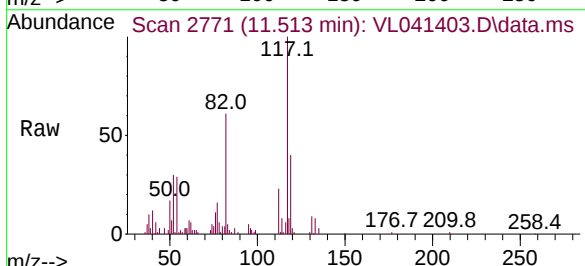
Tgt Ion:112 Resp: 17005

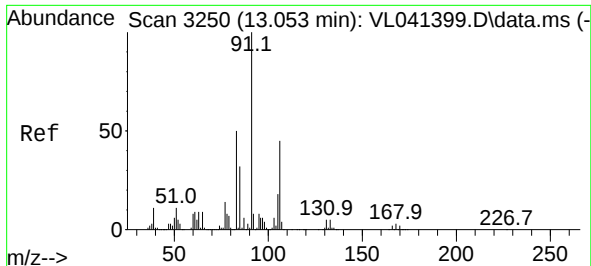
Ion Ratio Lower Upper

112 100

77 59.9 51.1 76.7

114 36.2 29.5 36.1#





#60

o-Xylene

Concen: 0.043 ppbv

RT: 13.050 min Scan# 31

Delta R.T. -0.003 min MSVOA_L

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

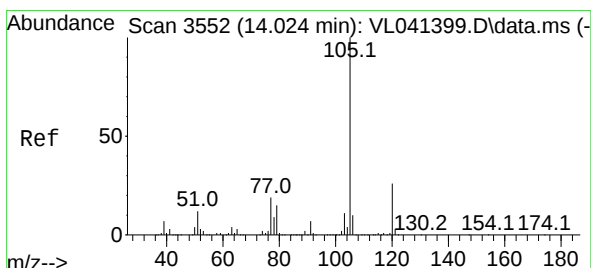
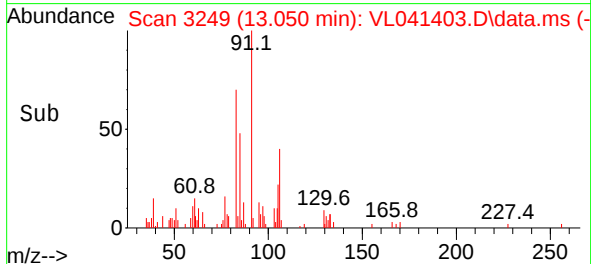
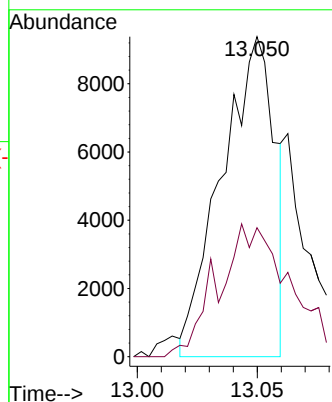
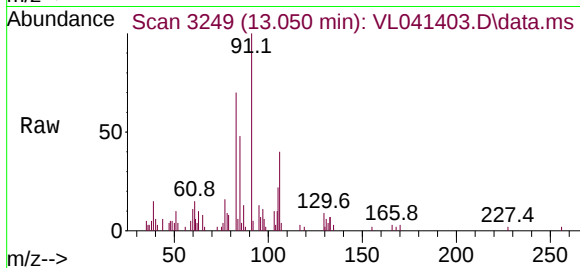
ClientSampleId :

Tgt Ion: 91 Resp: 14463

Ion Ratio Lower Upper

91 100

106 59.3 23.1 69.3



#62

Isopropylbenzene

Concen: 0.031 ppbv

RT: 14.018 min Scan# 3550

Delta R.T. -0.007 min

Lab File: VL041403.D

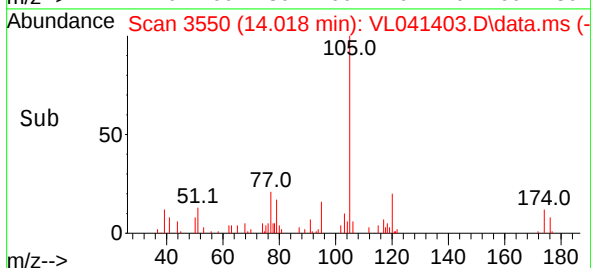
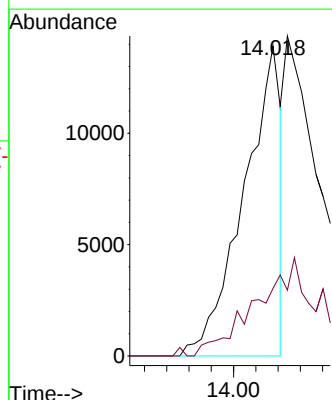
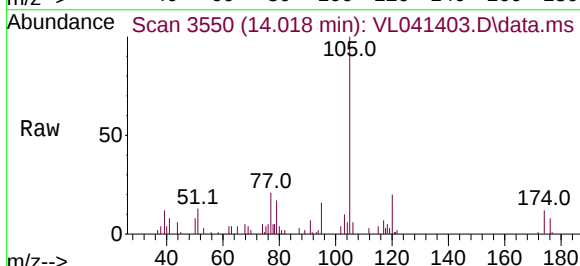
Acq: 25 Jul 2024 16:42

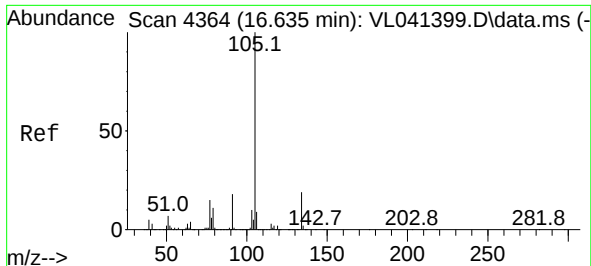
Tgt Ion:105 Resp: 15986

Ion Ratio Lower Upper

105 100

120 0.0 21.0 31.4#





#67

sec-Butylbenzene

Concen: 0.035 ppbv

RT: 16.635 min Scan# 4364

Delta R.T. -0.000 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

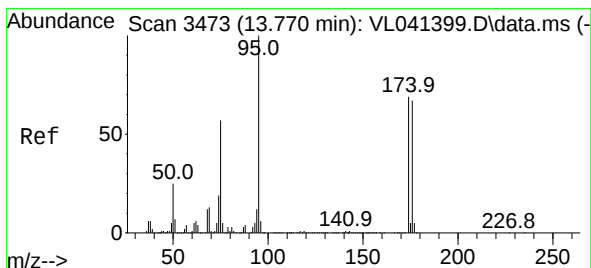
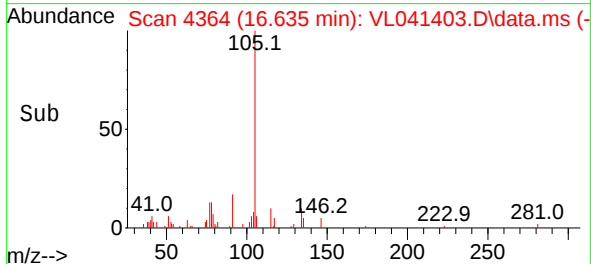
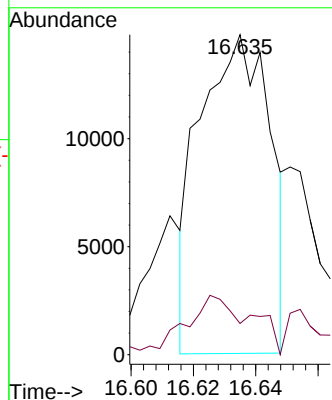
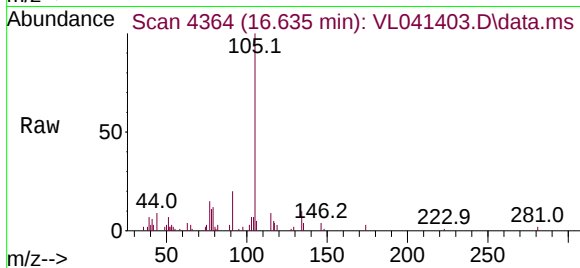
ClientSampleId :

Tgt Ion:105 Resp: 23005

Ion Ratio Lower Upper

105 100

134 19.4 14.5 21.7



#68

1-Bromo-4-Fluorobenzene

Concen: 10.453 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. -0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

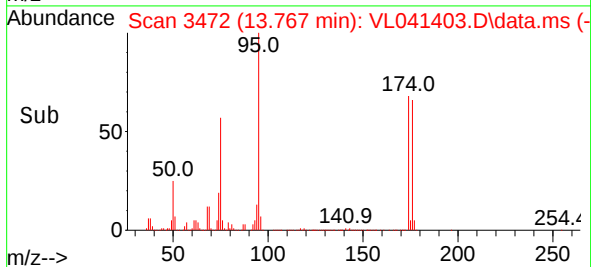
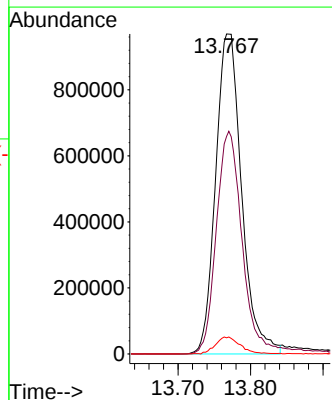
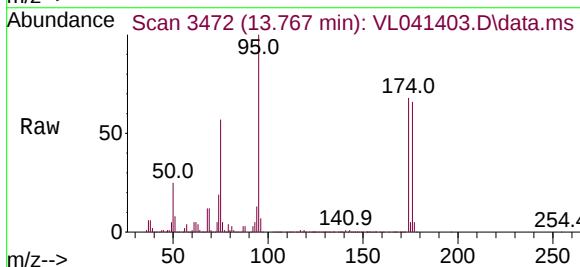
Tgt Ion: 95 Resp: 2418801

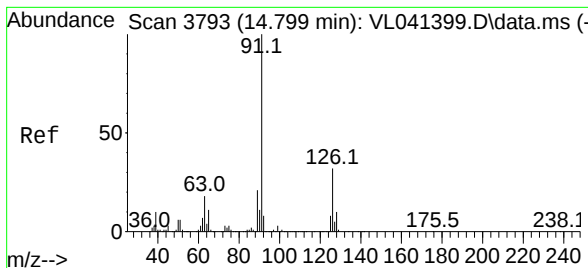
Ion Ratio Lower Upper

95 100

174 70.3 56.3 84.5

175 5.2 4.0 6.0

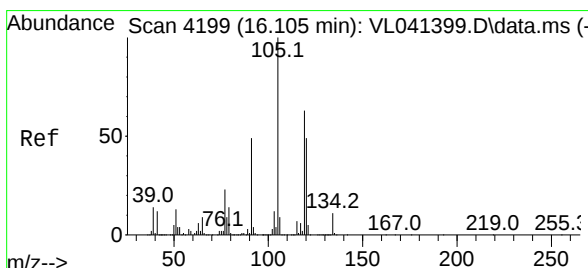
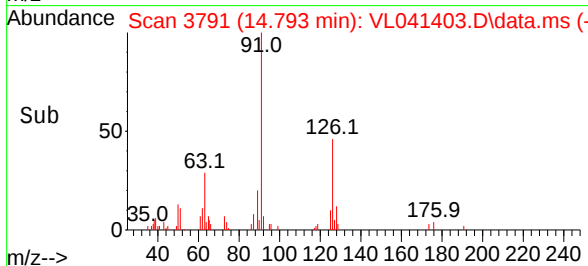
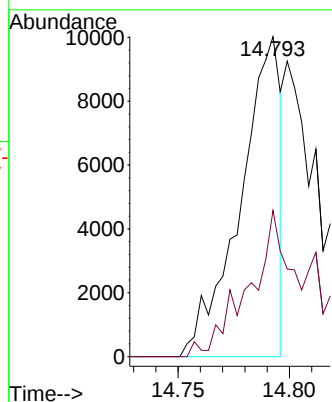
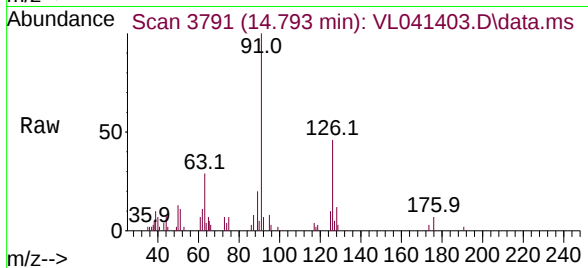




#71
2-Chlorotoluene
Concen: 0.033 ppbv
RT: 14.793 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

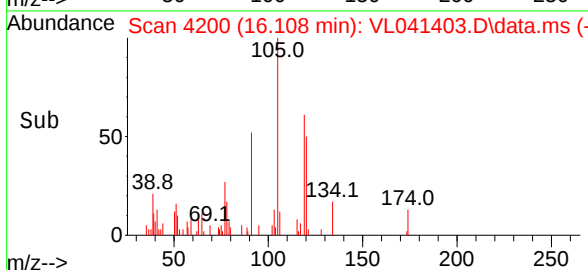
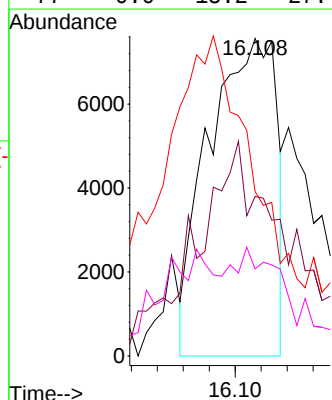
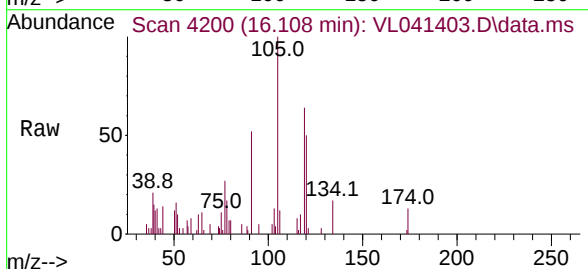
Instrument :
MSVOA_L
ClientSampleId :

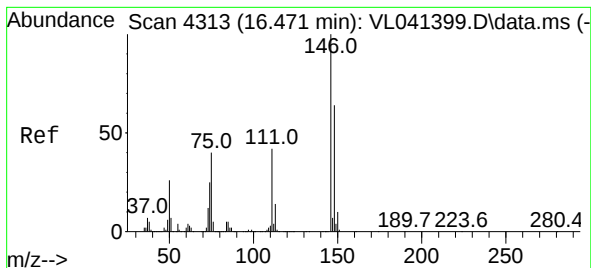
Tgt Ion: 91 Resp: 12614
Ion Ratio Lower Upper
91 100
126 68.8 12.7 50.9#



#74
1,2,4-Trimethylbenzene
Concen: 0.035 ppbv
RT: 16.108 min Scan# 4200
Delta R.T. 0.003 min
Lab File: VL041403.D
Acq: 25 Jul 2024 16:42

Tgt Ion:105 Resp: 13720
Ion Ratio Lower Upper
105 100
120 34.5 39.5 59.3#
91 27.9 39.8 59.8#
77 0.0 18.2 27.4#





#76

1,4-Dichlorobenzene

Concen: 0.038 ppbv

RT: 16.468 min Scan# 4312

Delta R.T. -0.003 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :

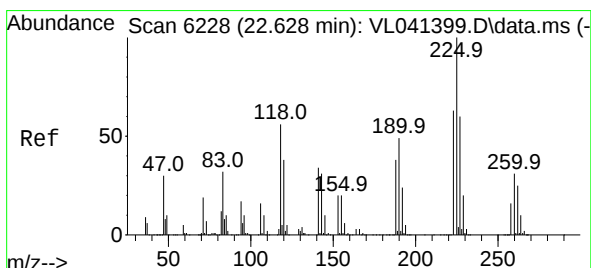
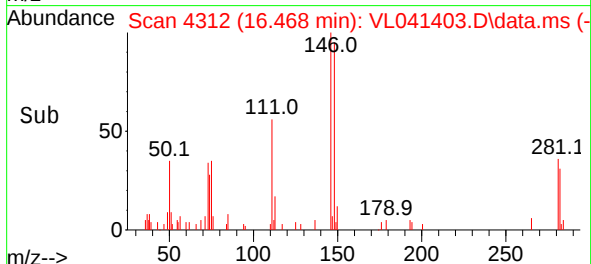
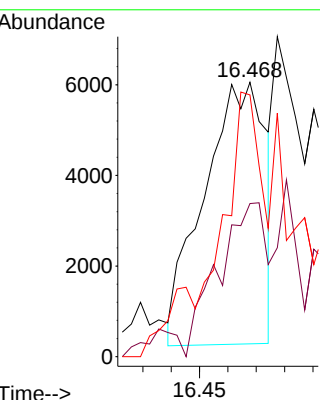
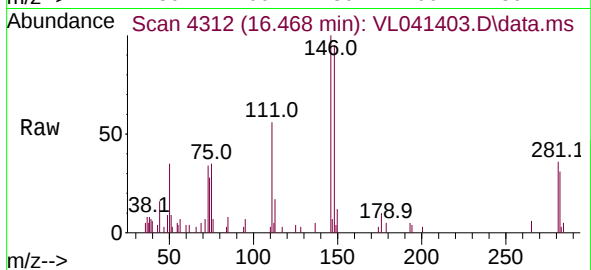
Tgt Ion:146 Resp: 8711

Ion Ratio Lower Upper

146 100

111 0.0 22.4 67.0#

148 143.2 33.1 99.5#



#78

Hexachloro-1,3-Butadiene

Concen: 0.041 ppbv

RT: 22.622 min Scan# 6226

Delta R.T. -0.007 min

Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

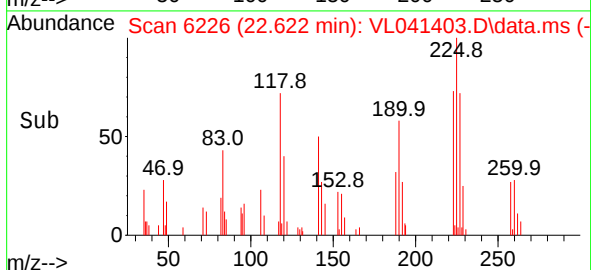
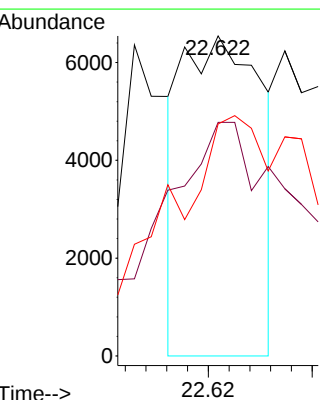
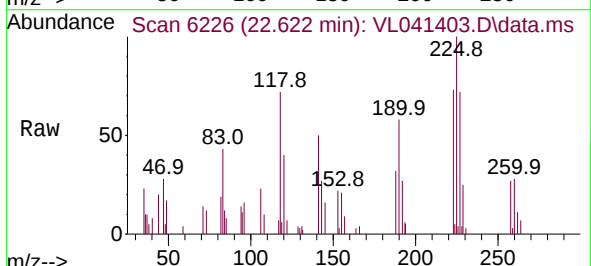
Tgt Ion:225 Resp: 6934

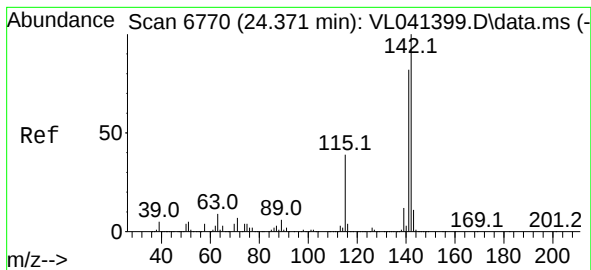
Ion Ratio Lower Upper

225 100

223 186.0 50.6 76.0#

227 194.4 50.8 76.2#





#80

Naphthalene, 2-methyl-

Concen: 4.398 ppbv

RT: 24.377 min Scan# 61

Delta R.T. 0.006 min

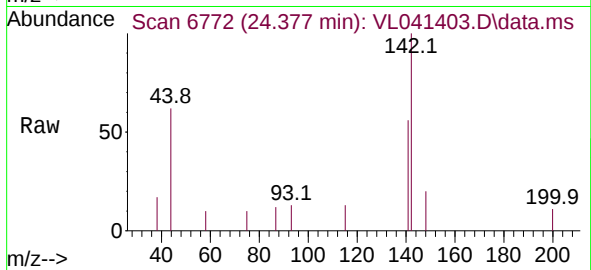
Lab File: VL041403.D

Acq: 25 Jul 2024 16:42

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:142 Resp: 2413

Ion Ratio Lower Upper

142 100

141 103.0 67.0 100.4#

115 42.6 32.2 48.2

