

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121824\
 Data File : VL041812.D
 Acq On : 19 Dec 2024 01:18
 Operator : SY/MD
 Sample : P5292-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

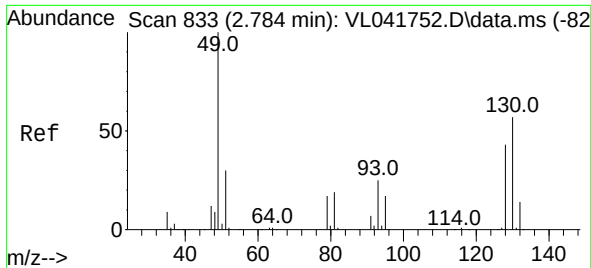
Instrument :
 MSVOA_L
 ClientSampleId :
 C0AC5

Quant Time: Dec 19 08:02:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	75900	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	180500	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.895	117	153059	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	129050	10.118	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 101.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	5392	0.399	ppbv	95
3) Chlorodifluoromethane	1.479	51	5968	0.482	ppbv #	83
4) Chloromethane	1.534	50	2191	0.415	ppbv	94
9) Propene	1.489	41	4022	0.750	ppbv #	77
11) Trichlorofluoromethane	1.881	101	3099	0.216	ppbv	88
12) 1,1,2-Trichlorotrifluo...	2.146	101	667	0.061	ppbv	96
13) Ethanol	1.725	45	6977	15.706	ppbv #	34
15) Acetone	1.839	43	24574	1.664	ppbv #	89
16) 1,3-Butadiene	1.602	39	851	0.146	ppbv #	43
19) Isopropyl Alcohol	1.894	45	4626	0.522	ppbv #	4
20) Methylene Chloride	2.068	84	3152	0.749	ppbv	96
23) Vinyl Acetate	2.460	43	844	0.123	ppbv #	3
25) Ethyl Acetate	2.836	43	2063	0.075	ppbv #	82
26) Hexane	2.836	57	1609	0.154	ppbv #	40
29) Chloroform	2.855	83	6092	0.383	ppbv	92
34) 2-Butanone	2.570	43	1883	0.130	ppbv #	89
35) Carbon Tetrachloride	3.771	117	785	0.061	ppbv #	59
36) Benzene	3.667	78	3025	0.162	ppbv	98
39) 1,2-Dichloropropane	3.972	63	50516	7.481	ppbv #	18
53) Toluene	6.946	91	2050	0.097	ppbv #	36
74) 1,2,4-Trimethylbenzene	11.549	105	874	0.037	ppbv #	50

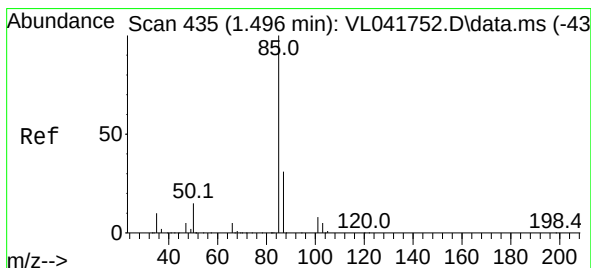
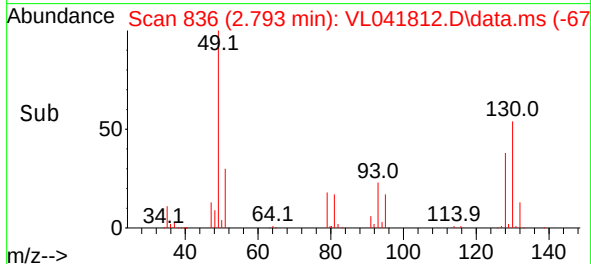
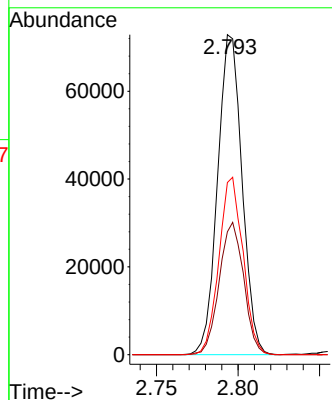
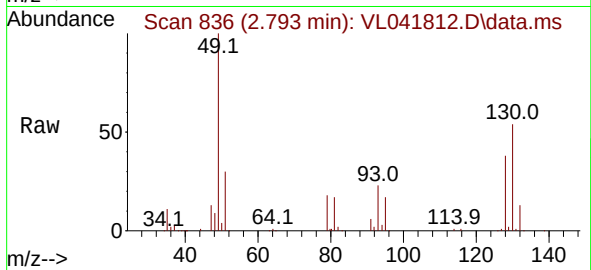
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 836
Delta R.T. 0.009 min
Lab File: VL041812.D
Acq: 19 Dec 2024 01:18

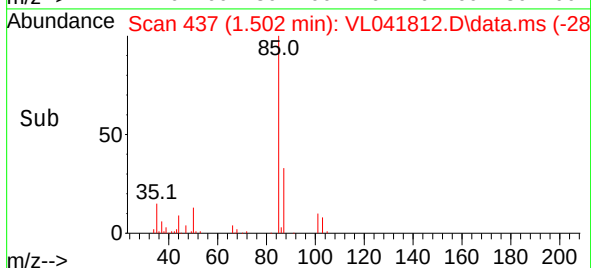
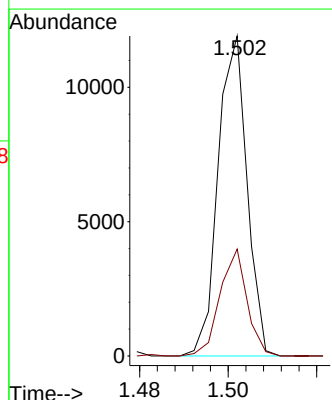
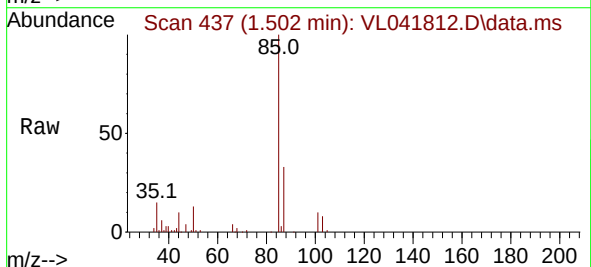
Instrument :
MSVOA_1
ClientSampleId :
C0AC5

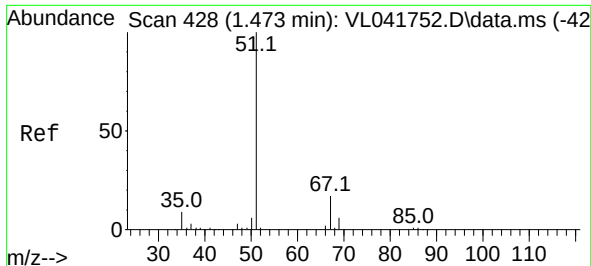
Tgt Ion: 49 Resp: 75900
Ion Ratio Lower Upper
49 100
128 41.4 21.6 64.6
130 54.5 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.399 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041812.D
Acq: 19 Dec 2024 01:18

Tgt Ion: 85 Resp: 5392
Ion Ratio Lower Upper
85 100
87 33.4 24.5 36.7

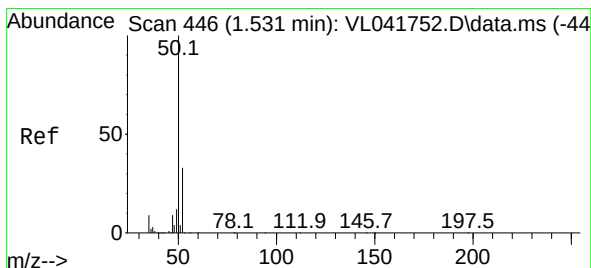
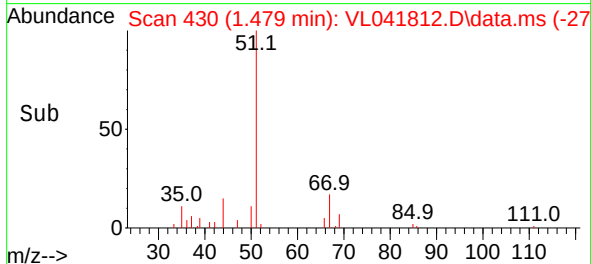
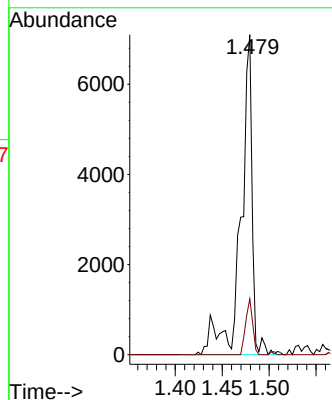
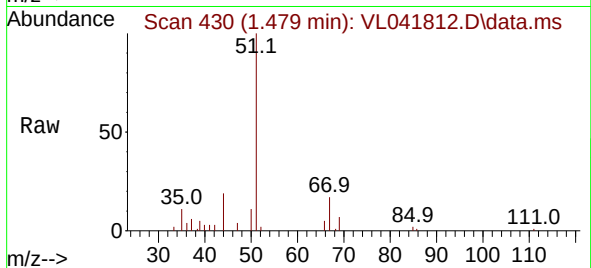




#3
Chlorodifluoromethane
Concen: 0.482 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL041812.D
Acq: 19 Dec 2024 01:18

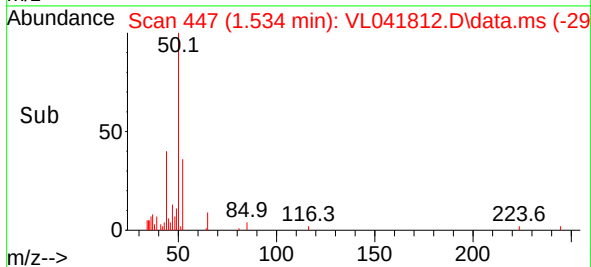
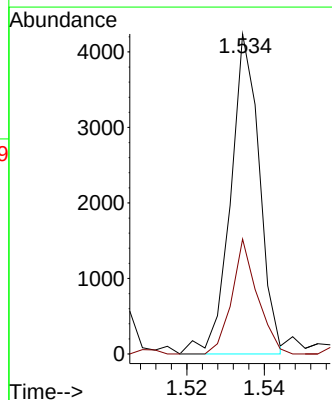
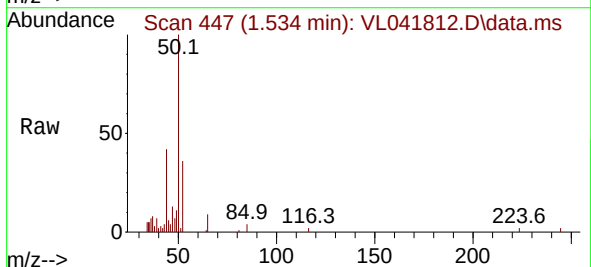
Instrument :
MSVOA_1
ClientSampleId :
C0AC5

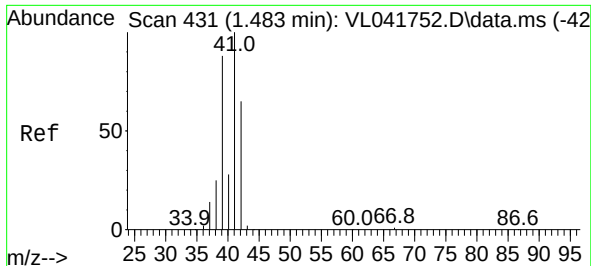
Tgt Ion: 51 Resp: 5968
Ion Ratio Lower Upper
51 100
67 11.1 15.0 22.4#



#4
Chloromethane
Concen: 0.415 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041812.D
Acq: 19 Dec 2024 01:18

Tgt Ion: 50 Resp: 2191
Ion Ratio Lower Upper
50 100
52 35.9 26.2 39.2





#9

Propene

Concen: 0.750 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

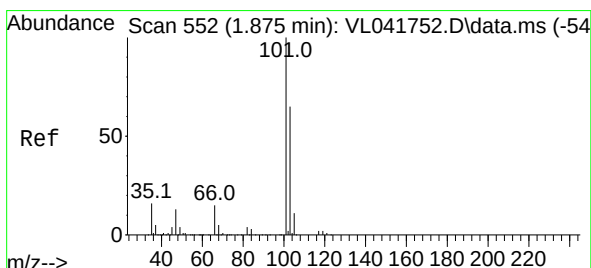
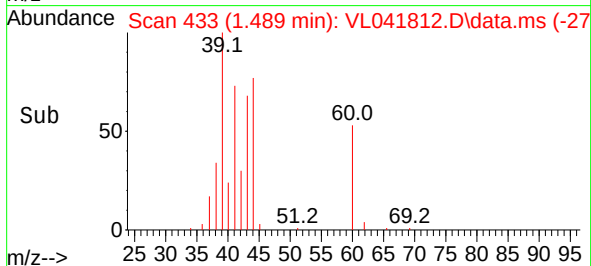
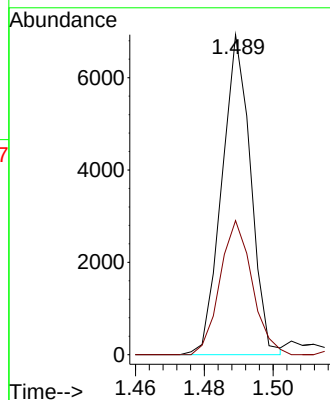
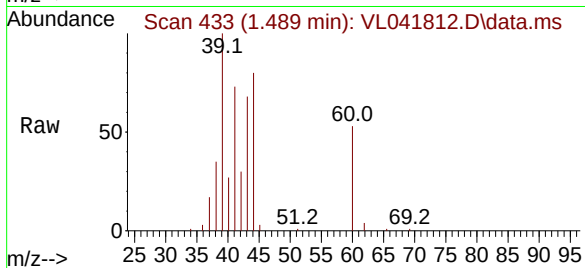
C0AC5

Tgt Ion: 41 Resp: 4022

Ion Ratio Lower Upper

41 100

42 47.0 52.4 78.6#



#11

Trichlorofluoromethane

Concen: 0.216 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.006 min

Lab File: VL041812.D

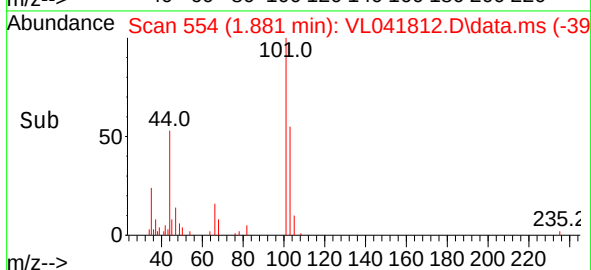
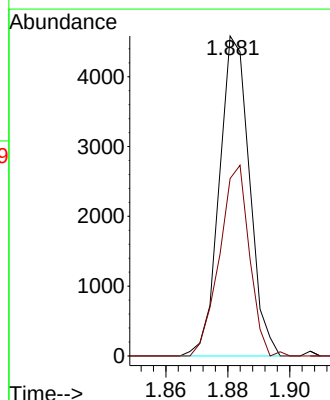
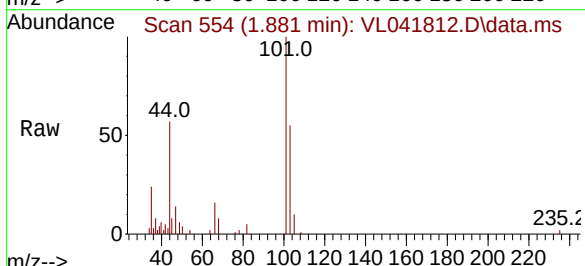
Acq: 19 Dec 2024 01:18

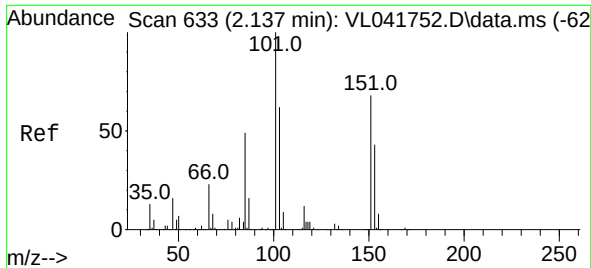
Tgt Ion:101 Resp: 3099

Ion Ratio Lower Upper

101 100

103 55.5 51.8 77.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.061 ppbv

RT: 2.146 min Scan# 61

Delta R.T. 0.009 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

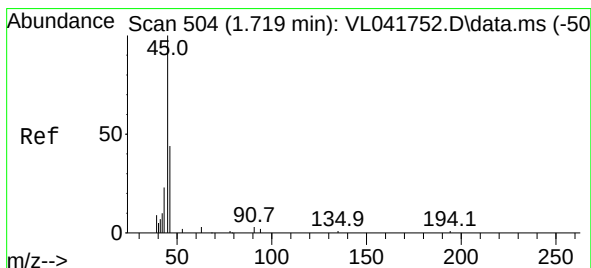
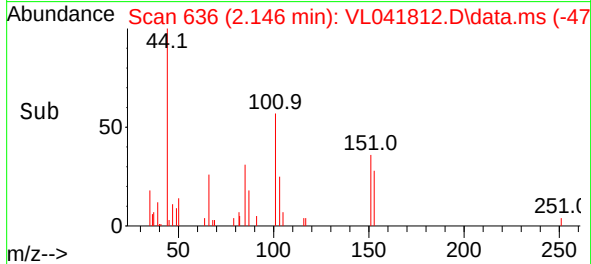
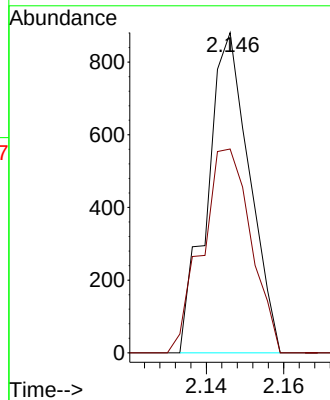
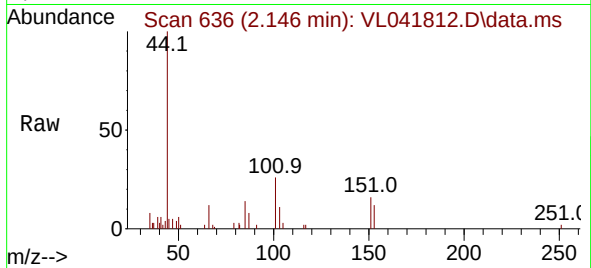
C0AC5

Tgt Ion:101 Resp: 667

Ion Ratio Lower Upper

101 100

151 73.9 56.8 85.2



#13

Ethanol

Concen: 15.706 ppbv

RT: 1.725 min Scan# 506

Delta R.T. 0.006 min

Lab File: VL041812.D

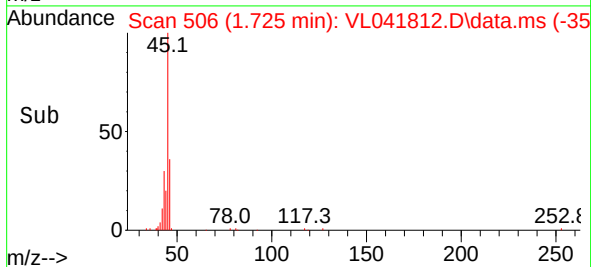
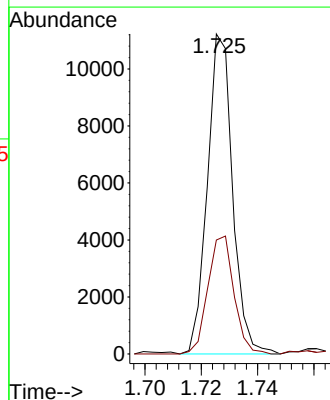
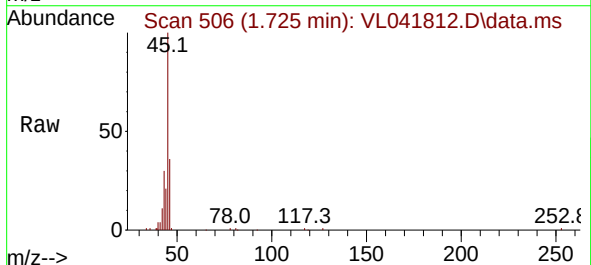
Acq: 19 Dec 2024 01:18

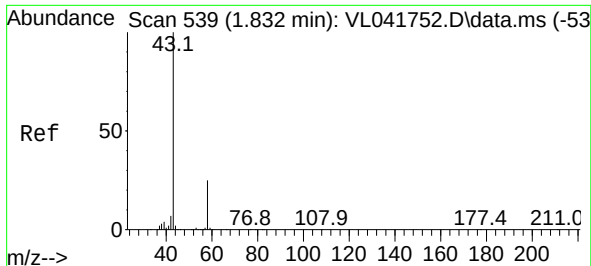
Tgt Ion: 45 Resp: 6977

Ion Ratio Lower Upper

45 100

46 0.0 16.4 65.8#





#15

Acetone

Concen: 1.664 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.006 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

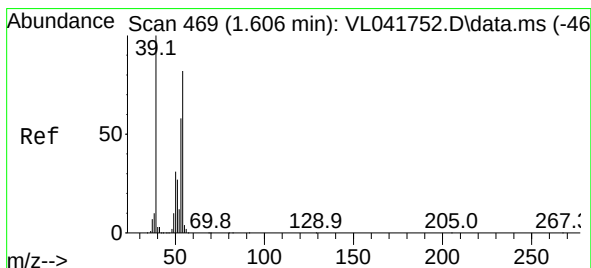
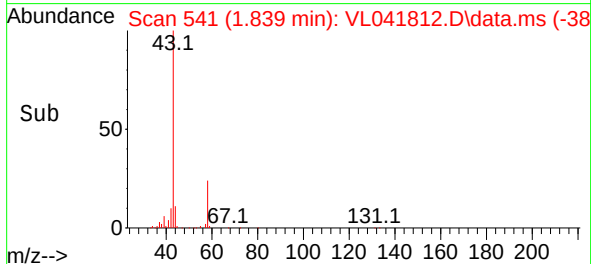
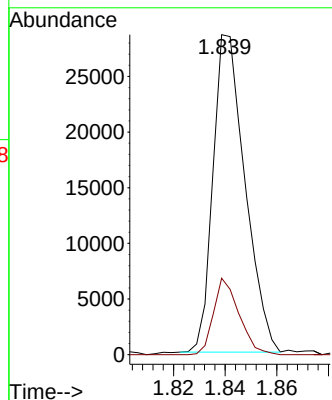
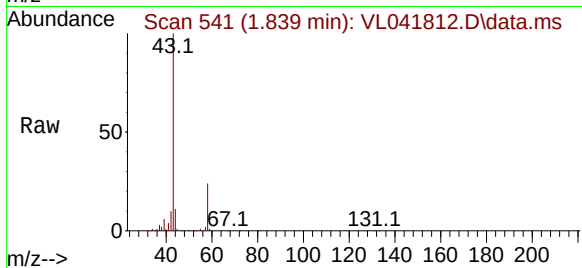
C0AC5

Tgt Ion: 43 Resp: 24574

Ion Ratio Lower Upper

43 100

58 19.2 19.7 29.5#



#16

1,3-Butadiene

Concen: 0.146 ppbv

RT: 1.602 min Scan# 468

Delta R.T. -0.004 min

Lab File: VL041812.D

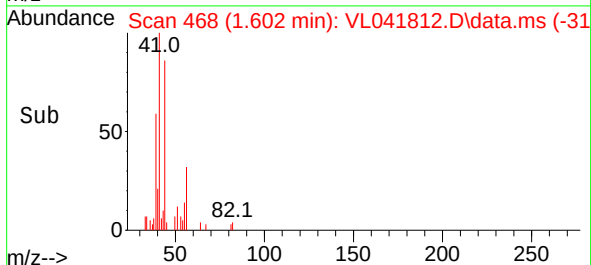
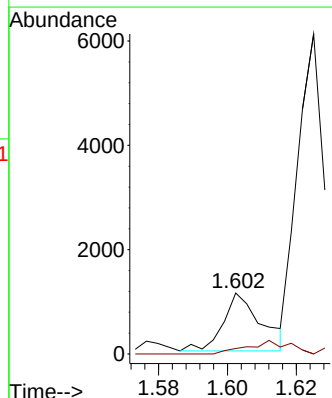
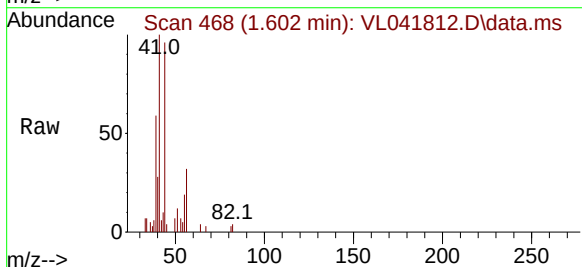
Acq: 19 Dec 2024 01:18

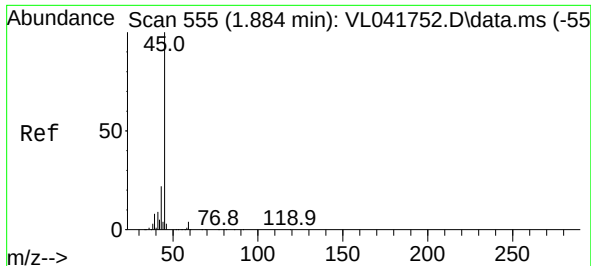
Tgt Ion: 39 Resp: 851

Ion Ratio Lower Upper

39 100

54 25.5 58.4 87.6#





#19

Isopropyl Alcohol

Concen: 0.522 ppbv

RT: 1.894 min Scan# 51

Delta R.T. 0.009 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

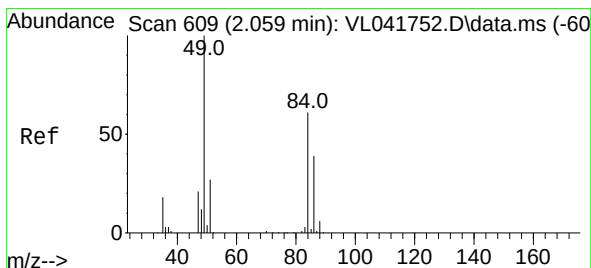
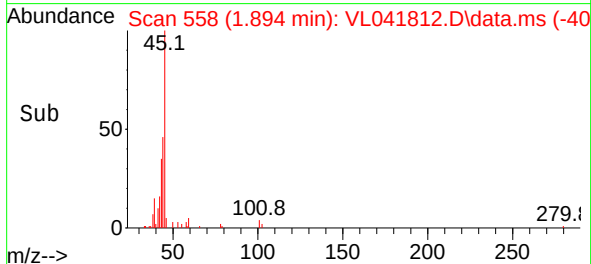
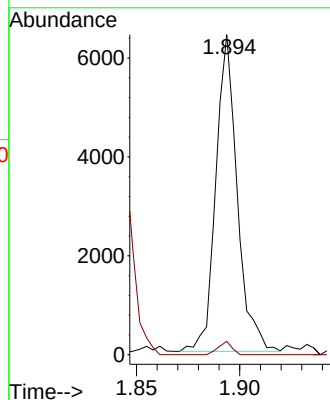
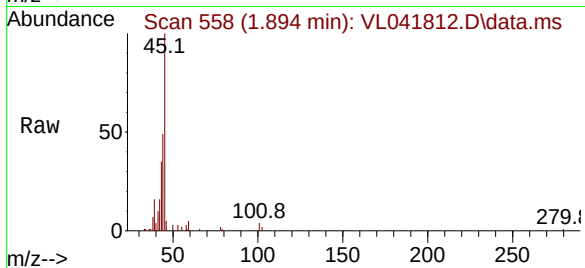
C0AC5

Tgt Ion: 45 Resp: 4626

Ion Ratio Lower Upper

45 100

58 101.8 33.3 49.9#



#20

Methylene Chloride

Concen: 0.749 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.009 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Tgt Ion: 84 Resp: 3152

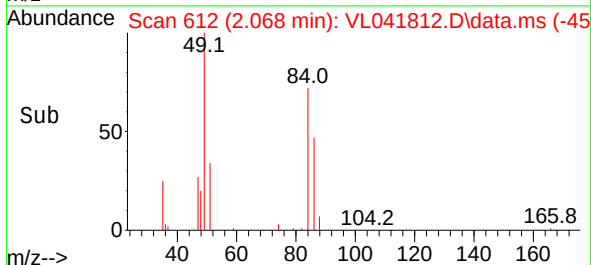
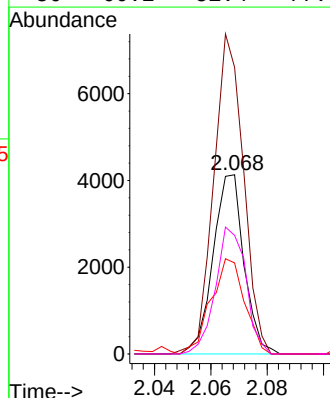
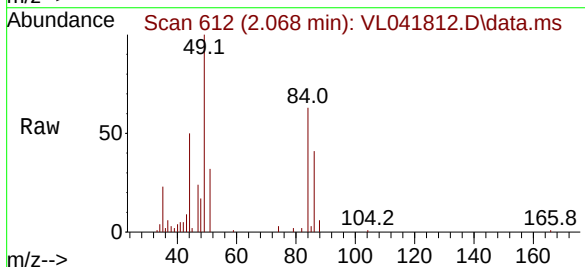
Ion Ratio Lower Upper

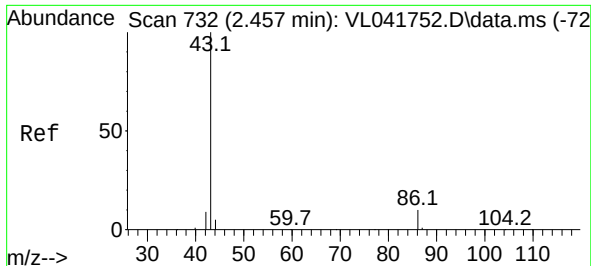
84 100

49 160.0 132.6 198.8

51 50.8 37.6 56.4

86 66.2 51.4 77.0





#23

Vinyl Acetate

Concen: 0.123 ppbv

RT: 2.460 min Scan# 74

Delta R.T. 0.003 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_1

ClientSampleId :

C0AC5

Tgt Ion: 43 Resp: 844

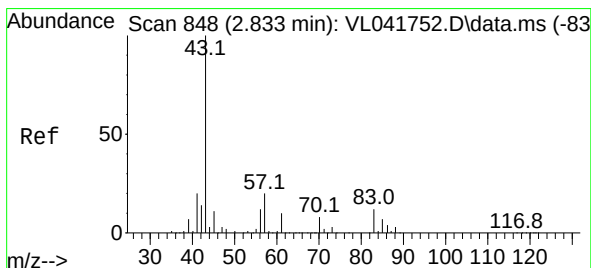
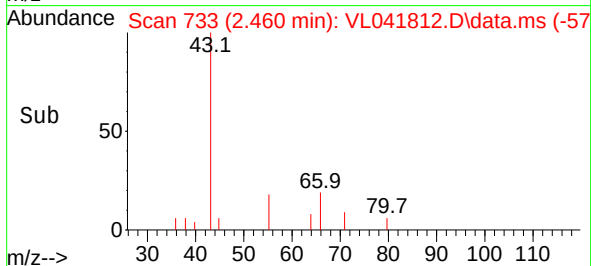
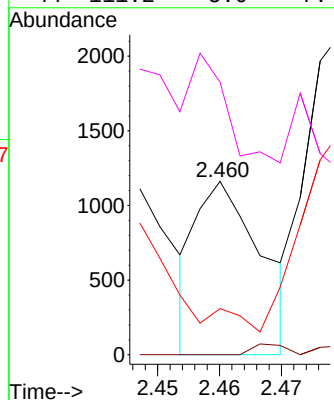
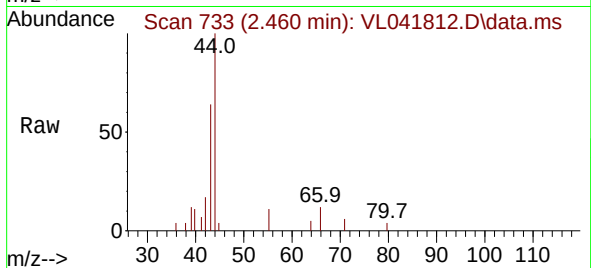
Ion Ratio Lower Upper

43 100

86 0.0 6.6 10.0#

42 0.0 8.2 12.2#

44 111.2 5.0 7.4#



#25

Ethyl Acetate

Concen: 0.075 ppbv

RT: 2.836 min Scan# 849

Delta R.T. 0.003 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Tgt Ion: 43 Resp: 2063

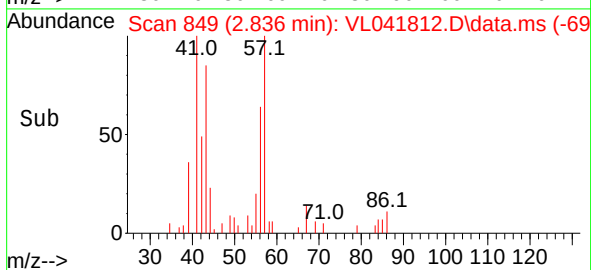
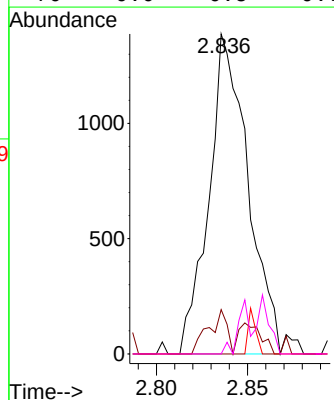
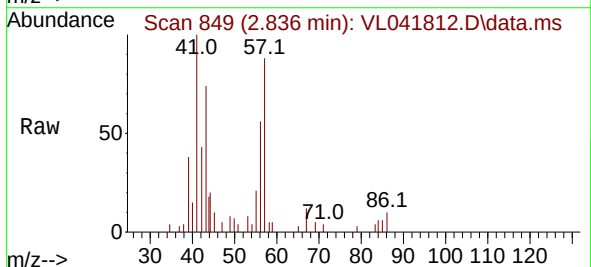
Ion Ratio Lower Upper

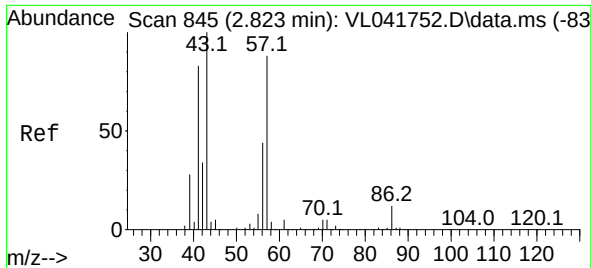
43 100

45 12.8 8.1 12.1#

61 0.0 7.0 10.6#

70 0.0 6.5 9.7#

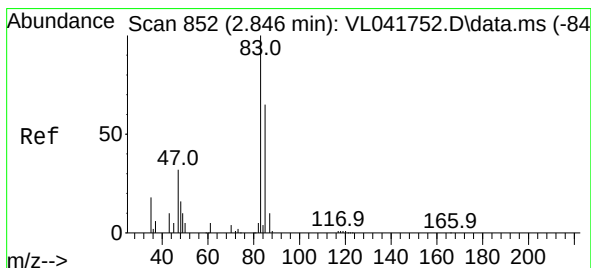
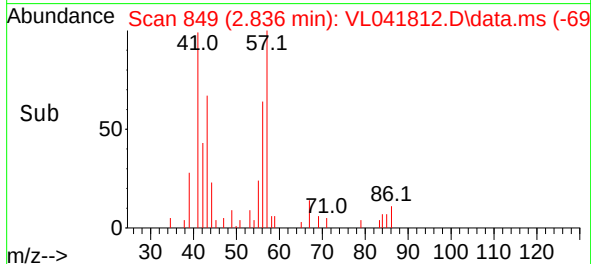
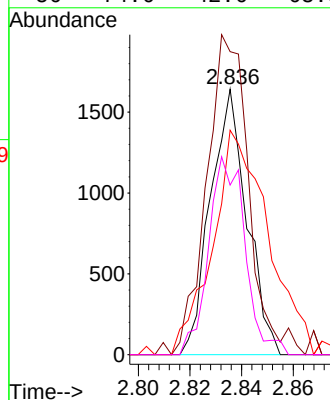
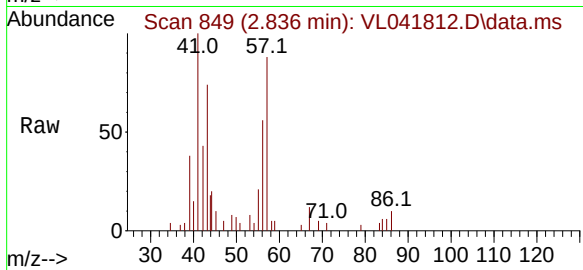




#26
Hexane
Concen: 0.154 ppbv
RT: 2.836 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL041812.D
Acq: 19 Dec 2024 01:18

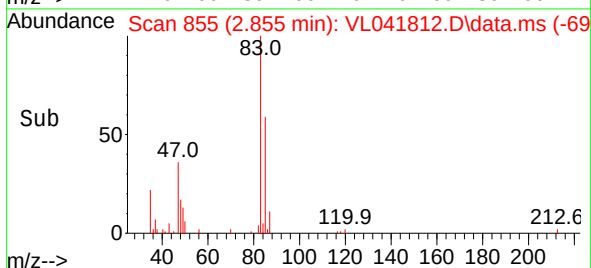
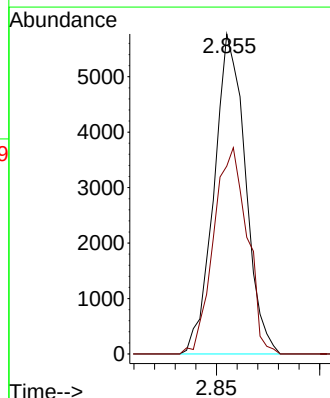
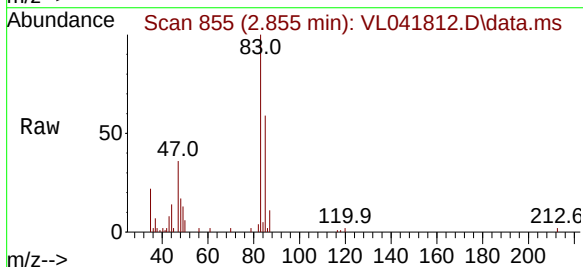
Instrument :
MSVOA_L
ClientSampleId :
C0AC5

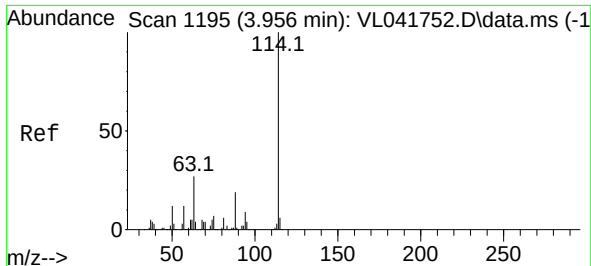
Tgt Ion: 57 Resp: 1609
Ion Ratio Lower Upper
57 100
41 141.7 79.6 119.4#
43 132.8 211.0 316.6#
56 74.6 42.6 63.8#



#29
Chloroform
Concen: 0.383 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.009 min
Lab File: VL041812.D
Acq: 19 Dec 2024 01:18

Tgt Ion: 83 Resp: 6092
Ion Ratio Lower Upper
83 100
85 58.7 51.8 77.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 1195

Delta R.T. 0.016 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

C0AC5

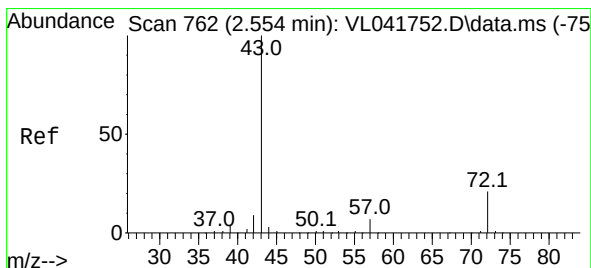
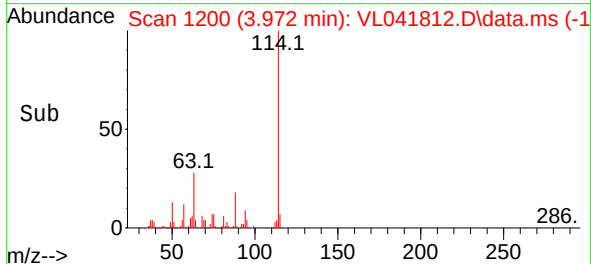
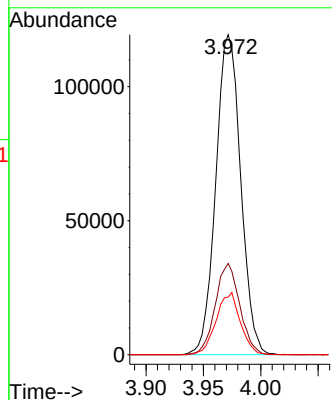
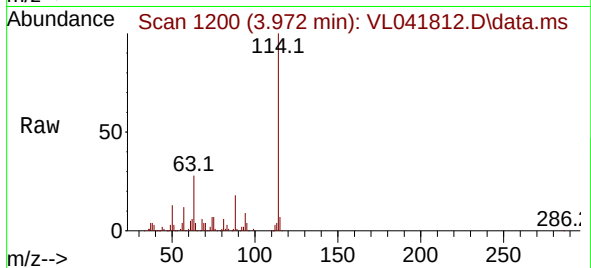
Tgt Ion:114 Resp: 180500

Ion Ratio Lower Upper

114 100

63 28.0 21.8 32.8

88 18.9 14.8 22.2



#34

2-Butanone

Concen: 0.130 ppbv

RT: 2.570 min Scan# 767

Delta R.T. 0.016 min

Lab File: VL041812.D

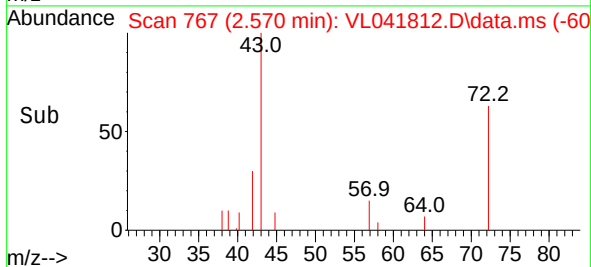
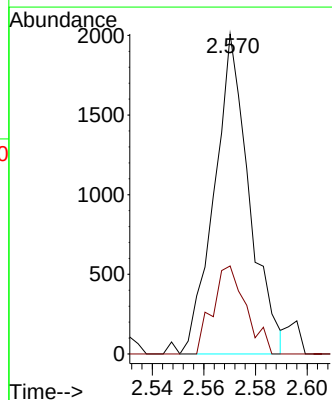
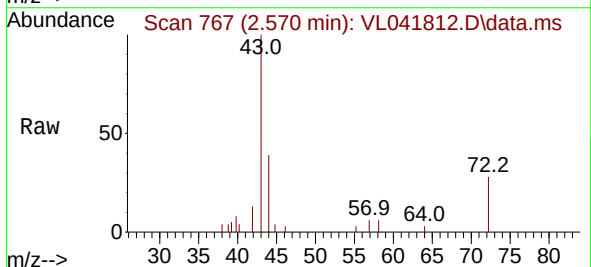
Acq: 19 Dec 2024 01:18

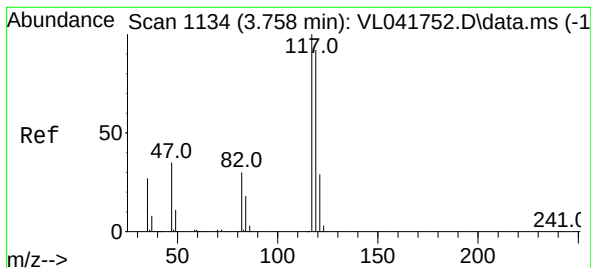
Tgt Ion: 43 Resp: 1883

Ion Ratio Lower Upper

43 100

72 26.2 16.8 25.2#





#35

Carbon Tetrachloride

Concen: 0.061 ppbv

RT: 3.771 min Scan# 1138

Delta R.T. 0.013 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

C0AC5

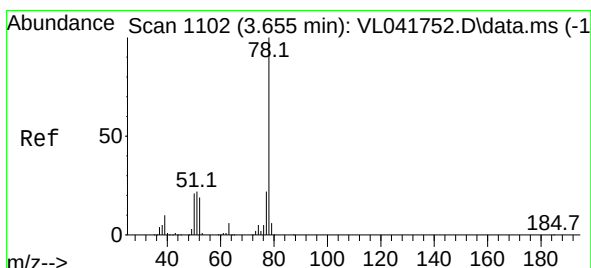
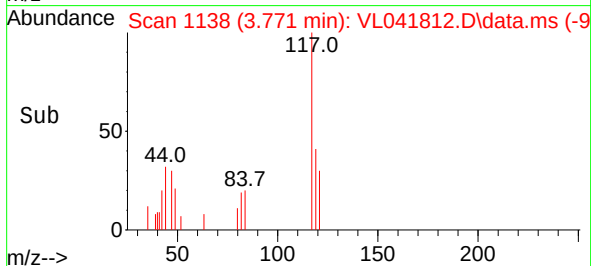
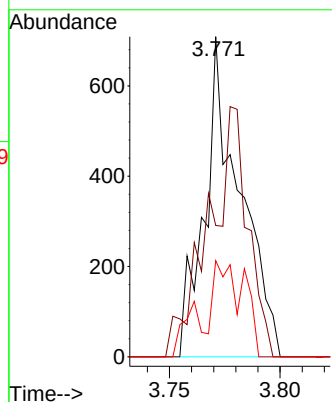
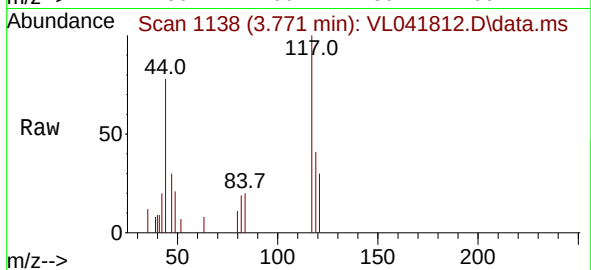
Tgt Ion:117 Resp: 785

Ion Ratio Lower Upper

117 100

119 41.0 73.7 110.5#

121 30.0 23.0 34.4



#36

Benzene

Concen: 0.162 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

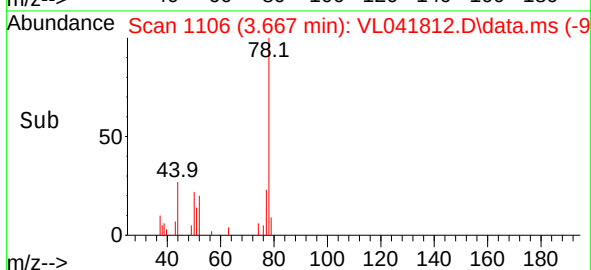
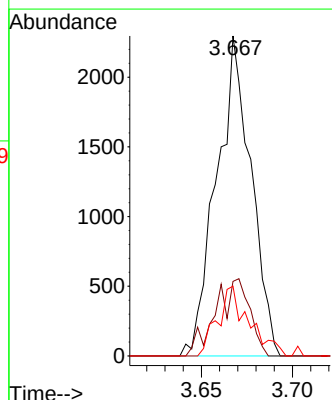
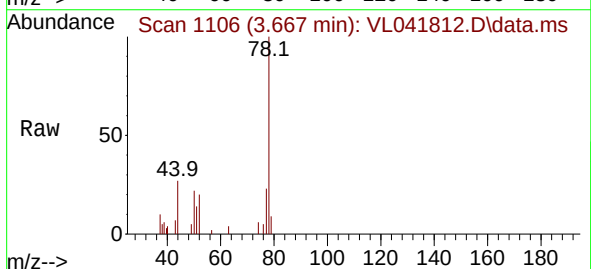
Tgt Ion: 78 Resp: 3025

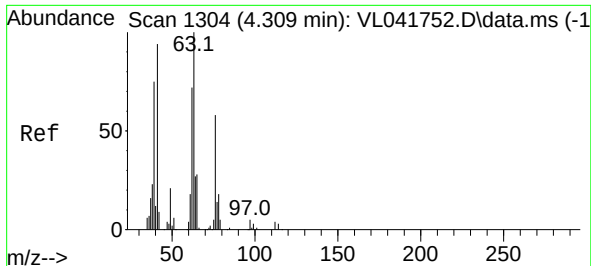
Ion Ratio Lower Upper

78 100

77 23.3 17.8 26.6

50 21.8 17.2 25.8





#39

1,2-Dichloropropane

Concen: 7.481 ppbv

RT: 3.972 min Scan# 11

Delta R.T. -0.337 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

C0AC5

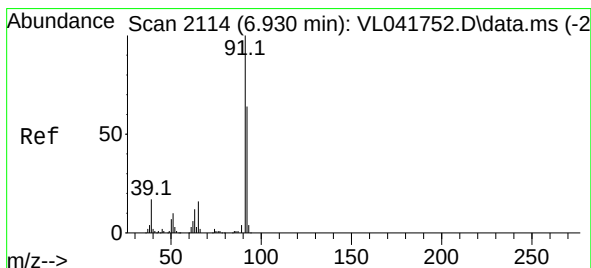
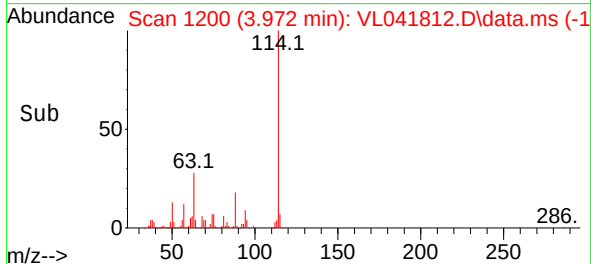
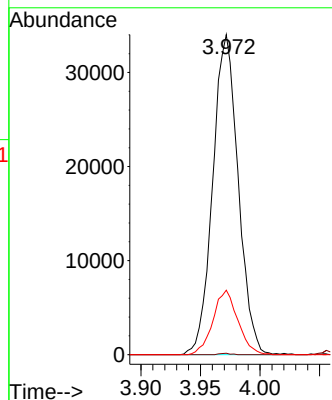
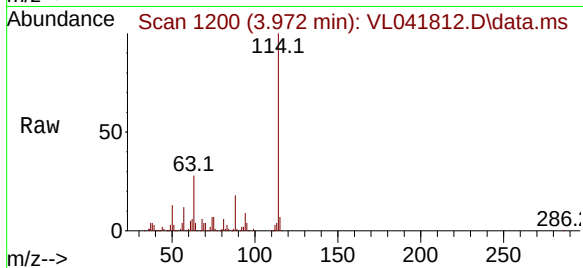
Tgt Ion: 63 Resp: 50516

Ion Ratio Lower Upper

63 100

41 0.5 75.3 112.9#

62 20.1 57.3 85.9#



#53

Toluene

Concen: 0.097 ppbv

RT: 6.946 min Scan# 2119

Delta R.T. 0.016 min

Lab File: VL041812.D

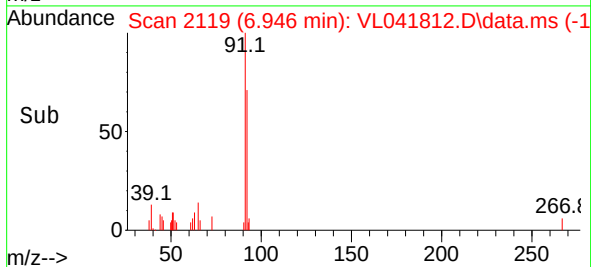
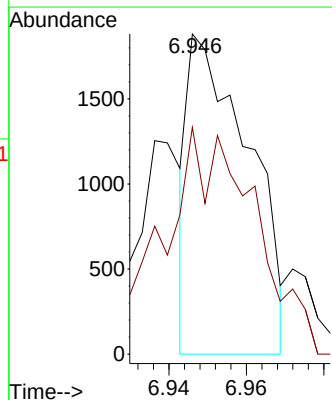
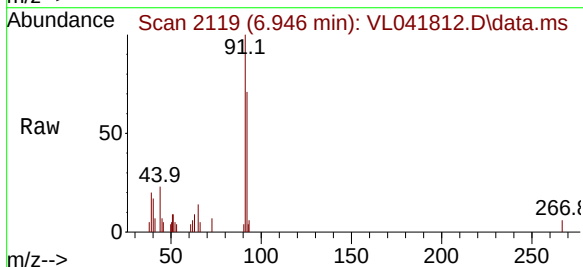
Acq: 19 Dec 2024 01:18

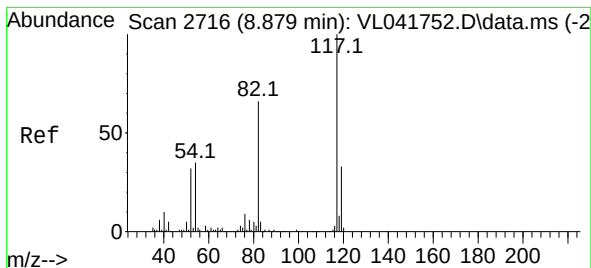
Tgt Ion: 91 Resp: 2050

Ion Ratio Lower Upper

91 100

92 107.9 47.9 71.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

C0AC5

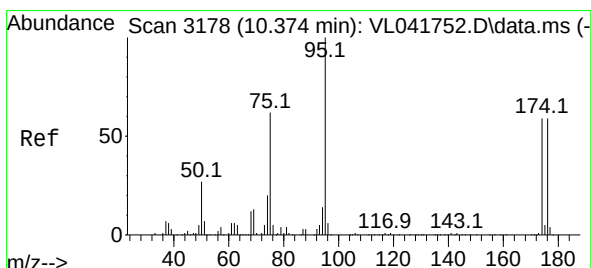
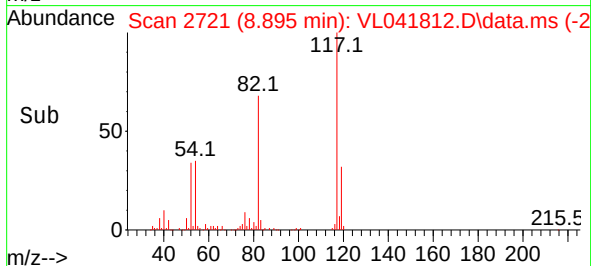
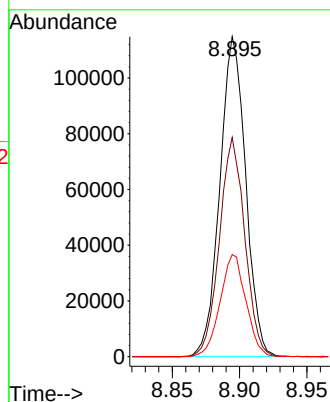
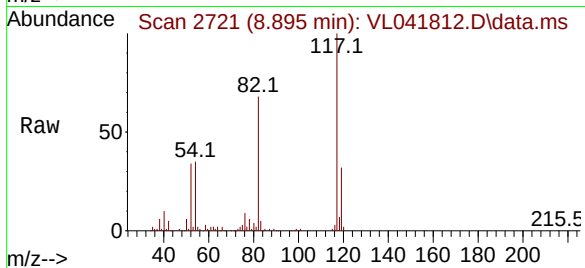
Tgt Ion:117 Resp: 153059

Ion Ratio Lower Upper

117 100

82 67.2 53.8 80.8

119 31.9 26.7 40.1



#68

1-Bromo-4-Fluorobenzene

Concen: 10.118 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. 0.013 min

Lab File: VL041812.D

Acq: 19 Dec 2024 01:18

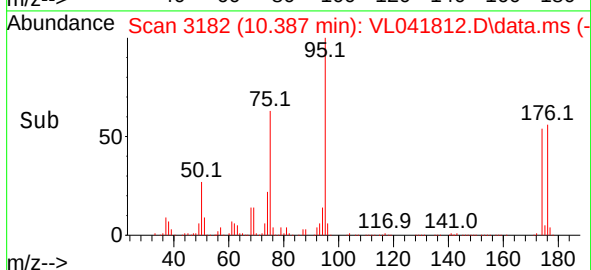
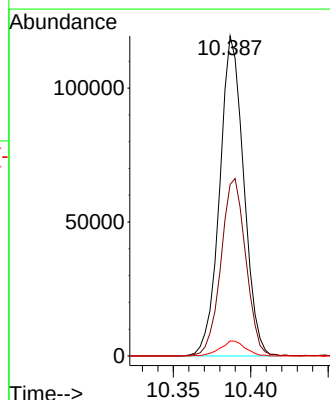
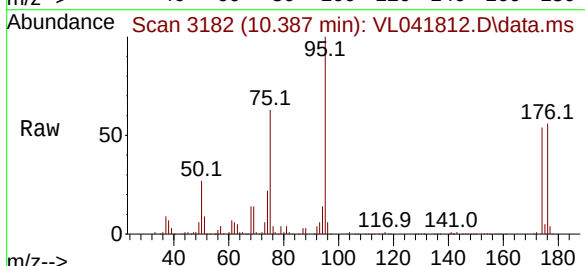
Tgt Ion: 95 Resp: 129050

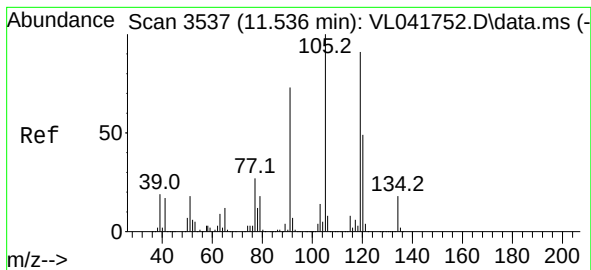
Ion Ratio Lower Upper

95 100

174 57.5 47.6 71.4

175 4.9 3.7 5.5





#74

1,2,4-Trimethylbenzene

Concen: 0.037 ppbv

RT: 11.549 min Scan# 3541

Delta R.T. 0.013 min

Lab File: VL041812.D

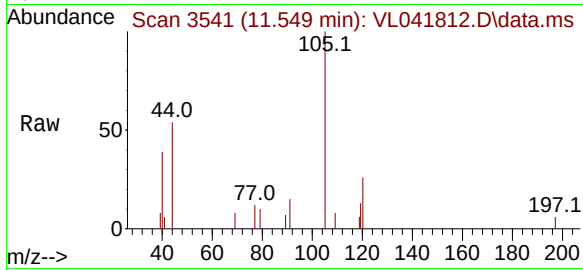
Acq: 19 Dec 2024 01:18

Instrument :

MSVOA_L

ClientSampleId :

C0AC5



Tgt Ion:	105	Resp:	874
Ion	Ratio	Lower	Upper
105	100		
120	26.1	39.0	58.4#
91	14.8	58.1	87.1#
77	12.0	21.8	32.8#

